

GWU SMHS Faculty Proposals for Medical Student Summer Research Projects 2026

Please review this packet of faculty proposals for medical student 2026 summer research projects.

First is the table of contents listing all available projects. After that table are the full research proposals.

Email any faculty who lists a research project of interest. We encourage faculty to interview three students before selection. Remember that **you may identify your own faculty research mentor and develop a project not in the packet.**

Once a faculty member has selected you to work on their project, you will use the project proposal to apply for funding along with your research mentor.

You are encouraged to **develop the proposal for application to multiple funding sources.** This greatly increases the likelihood you will receive a competitive fellowship, since no single source is guaranteed.

Consider the following opportunities for medical students:

- [GWU Medical Student Funding Opportunities: General Information](#)
- [GWU SMHS OSPE Internal Scholarships](#)
- [GWU Health Services Scholarship](#)
- [GWU W.T. Gill Summer Fellowship](#)
- [External National Summer fellowships](#)
- [External National Year-Out fellowships](#)
- [External Medical Student Opportunities at Other Institutions](#)

Click Here to [review the instructions for submitting a medical student fellowship application](#). Be sure to work with your faculty research mentor to develop their proposal into your joint fellowship application!

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Kirsten Das, MD	Pediatric Adolescent Gynecologist: Children's National Hospital	Creation of Mullerian Anomaly Database
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Kate Douglass, MD, MPH	Professor: Emergency Medicine	Assessing the Impact of Emergency Medicine Trainee Quality Improvement Projects on Health Systems in India
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Kristen Johnson, MD, MS	Assistant Professor/Hospitalist: Children's National Hospital	Impact of Artificial Intelligence-Generated Plain Language Summaries of Inpatient Progress Notes on Patient and Family Understanding of Medical Care
Cemal Karakas, MD	Associate Professor: Children's National Hospital	Mechanisms of Failure After Focal Cortical Dysplasia Surgery in Children: A Stereo-EEG-Guided Reoperation Study
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Michael Keller, MD	Associate Professor: Children's National Hospital / CCIR	T cell immunity in combating Astrovirus

Amina Khan, MD, MPH	Assistant Professor: Children's National Hospital	GLP-1 Therapy for Pediatric Obesity: Experience from a pediatric weight management clinic
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Brandon Kohrt, MD, PhD	Professor of Psychiatry and Behavioral Health, Global Health, and Anthropology; Director, Center for Global Mental Health Equity	Ensuring Quality in Psychosocial & Mental Health Care - Service User version (EQUIP-SU)
Laura Kueny, MD	Pediatric Ophthalmologist: Children's National Hospital	Changing the Landscape of Retinopathy of Prematurity
Eyby Leon, MD	Medical Geneticist: Children's National Hospital	Description of a new genetics syndrome
Maureen E Lyon, PhD	Professor Pediatrics/Health Psychologist: Children's National Hospital	Palliative Care for Children with Rare Diseases and their Families (FACE-Rare)
Laila Mahmood, MD MPH	Attending: Children's National Hospital	CAT Tool to assess caregiver needs in families with children with sickle cell seen in the integrative sickle cell clinic.
Paul Marvar, PhD	Associate Professor: Department of Pharmacology and Physiology	Examining the molecular biomarker interface between hypertension and dementia
Tim McCaffrey, PhD	Professor of Microbiology, Immunology, and Tropical Medicine: George Washington University	SENSOR-ICU
Andrew Meltzer, MD, MS	Professor and Attending Physician: George Washington University	Association of Fibrosis with Decreased Ejection Fraction Using FibroScan in CHF Patients
Sarah Mulkey, MD, PhD	Fetal-Neonatal Neurologist, Associate Professor: Children's National Hospital	Parents' Experiences of Navigating Pregnancy and Parenthood with Lyme Disease
LaQuandra Nesbitt, MD, MPH	Senior Associate Dean for Population Health and Health Equity, Professor of Medicine: George Washington University	What Would You Like to Be True? A Community Health Needs Assessment Using a Systems Approach to Health Equity in Wards 7 and 8.
Martha Perry, MD	Program Director, Adolescent Medicine Fellowship; Clinical Professor of Pediatrics: Children's National Hospital	Pelvic Examination for Clinical Diagnosis of Pelvic Inflammatory Disease: A Retrospective Analysis

Ayal Pierce, MD	Assistant Professor: Dept of Anesthesia & Critical Care Medicine	A retrospective review of ECMO Outcomes to guide future management
Mandi L. Pratt-Chapman, PhD	Professor, Medicine; Assoc Dir Sci Comm & Dissemination: GW Cancer Center	Improving Safety and Quality for LGBTQI People Affected by Cancer
Sauharda Rai, PhD	Assistant Research Professor: Center for Global Mental Health Equity	Assessing Mental Health and Economic Impacts of Climate Hazards and Disasters on Adolescents in Low-Resource Settings (AMHEAL)
Claudia Ranniger, MD PhD	Assoc Prof: George Washington University CLASS	AI feedback for peripheral IV training
Michael Ray, DC, MS	Assistant Research Professor: George Washington University	From acute to chronic: the PREVENT study for understanding pain progression after emergency department visits
Roopa Kanakatti Shankar, MBBS, MS	Associate Professor of Pediatrics: Children's National hospital	Phenotype of Patients with Turner Syndrome in the InsignTS Registry
Robert Shesser, MD MPH	Professor: Department of Emergency Medicine	Comparative analysis of the costs, roles and responsibilities of Emergency Department registered nurses versus the costs, roles, and responsibility of assistive personnel in the US, UK, and India.
Michael Shoykhet, MD, PhD	Director, Center for Neuroscience Research: Children's National Hospital	Correlation between behavior and brain activity in children with epilepsy
Amanda Stewart, MD, MPH	Attending physician: Children's National Hospital Emergency Department	Pediatric emergency department visit characteristics for children and adolescents presenting in police custody
Aishwarya Thakur, MD	Assistant Professor/Addiction Medicine Physician: Children's National Takoma Theatre	Assessing Adolescents' Perspectives on Long-Acting Injectable Buprenorphine for Treatment of Opioid Use Disorder
Laura Tilley, MD	Associate Professor: George Washington University MFA	Stakeholder Perspectives on the National Disaster Medical System (NDMS) Pilot: A National Capital Region Study
Jason Triplett, PhD	Professor: Children's National Hospital	Mechanisms of visual circuit disruption in neurodevelopmental disorders

Paige Trojanowski, PhD	Pediatric Psychologist: Children's National Shaw Metro	Using ecological momentary assessment to examine connections between disordered eating behaviors, affect, and diabetes distress in youth with type 1 diabetes
Erica Valdovinos, MD	Assistant Professor: Department of Emergency Medicine	FOCUS: HIV and HCV opt out screening from the emergency department
Jessica Weisz, MD MBA	Associate Professor of Pediatrics: Children's National Hospital	Characteristics and medical needs of uninsured immigrant patient referred to an immigrant health care coordination program based at an academic tertiary care pediatric hospital
Michael J. Whalen, MD	Associate Professor of Urology; Vice-Chair, Dept of Urology; Chair, GWUH Robotics Committee	Outcomes Research in Urologic Oncology: Prostate Cancer & Testicular Cancer
Zareen Zaidi, MD PhD	Professor of Medicine: George Washington University	Exploring Academic Freedom in Medicine

Full Faculty Research Proposals Begin Next Page

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/11/2025 10:44am.

1. Faculty Sponsor

Name: Sonal Batra Degrees: MD, MST Title: Associate Professor Organization: MFA

Address: 2120 L Street NW City: Washington State: DC Zipcode: 20037

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Fac Email Address: sonal@gwu.edu

2. Daily Supervisor

Name: Sonal Batra Degrees: MD, MST Title: Associate Professor Organization: MFA

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3. Project Information

Project Title

Emergency Department Student Navigation for Patients Experiencing Homelessness

Upload up to three faculty publications (within the last three years).

retrieve.pdf

ZMEO_30_2469972.pdf

batra_2022_oj_220330_1651505771.93281.pdf

Research Focus (Please select all that apply):

Emergency Medicine Health Disparities _____ Public Health

Translational Level:

T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The purpose of this study is to evaluate the effectiveness of a student-led Patient Navigation (PN) program in the George Washington University Emergency Department (ED) for patients experiencing homelessness. The program aims to improve outpatient care linkage (primary care, specialty care), support prescription access, and address social needs, thereby reducing ED recidivism, hospital readmission, and unmet social determinants of health (SDOH).
Primary Objective: To assess whether the PN program increases successful linkage to outpatient medical care (primary and specialty) within 30 days, six months, and one year after ED discharge. Measured as yes or no.
Secondary Objectives: 1. To evaluate whether the PN program improves prescription fill rates for medications prescribed by the ED within 30 days of discharge. Measured as all prescriptions filled, some prescriptions filled, or no prescriptions filled. 2. To evaluate the program's impact on ED all cause return visits within 30 days, six months, and one year of initial ED visit. Measured as the number of ED visits at any ED in DC, VA, or MD (DMV) within 30 days of discharge, six months, and one year. 3. To evaluate the program's impact on all cause hospital admission within 30 days, 6 month, and 1year

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This study will be a prospective cross-sectional cohort study. Eligible patients are: adult patients, presenting the ED, experiencing current or future housing insecurity, who will be discharged, and who have the capacity to consent. We will ask the ED provider if the patient will be discharged, and will use an intention to treat model that will include patients who end up admitted. We will include a control sample using the same inclusion criteria, who will not receive the patient navigation intervention. We will begin with descriptive demographic statistics to characterize the study population receiving the intervention and the control sample. For our primary outcome (successful linkage to outpatient care), we will calculate the proportion of patients who attend at least one follow-up visit within 30 days and one year of initial ED visit. Data will be collected by a compilation of calling the patient, CRISP, or calling the clinic to verify if the patient attended the appointment. The proportion of will be compared to the control sample using a chi-square test for categorical comparison. Secondary Outcomes: We will calculate the average number of all cause 30 day, six month, and one year ED representations. The data will be collected using CRISP. The average will be compared to the control sample using a chi-square test. We will also use multivariable logistic regression modeling to adjust for potential confounders (e.g., age, sex, comorbidities, insurance status,number of social needs) to estimate the independent effect of navigation on this outcome. We will calculate the average number of all cause 30 day, six month, and one year hospital admissions. The data will be collected using CRISP. The average will be compared to the control sample using a chi-square test. We will also use multivariable logistic regression modeling to adjust for potential confounders (e.g., age, sex, comorbidities, insurance status,number of social needs) to estimate the independent effect of navigation on this outcome. For medication fill rates, we will calculate the proportion of participants filling all or some of their ED-prescribed medications within 30 days of discharge. Data will be collected using a compilation of CRISP and asking the patient by phone on day 30. The proportion of will be compared to the control sample using a chi-square test for categorical comparison. All analyses will be conducted in a statistical software package with the level of significance set at 5%.

Describe the student's role in the project:

Patient Navigation (delivering the intervention), Data collection (calling patients and extracting EHR data), contribution to data analysis, contribution to manuscript writing

Describe the mentor's role in the project:

Supervision of student tasks and ensures overall project completion

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Health Service Scholars - David Bronstein, Sarah Kollender

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-12-12

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/12/2025 3:49pm.

1. Faculty Sponsor

Name: Addie Boone Degrees: MD, MPH Title: Assistant Professor Organization: GW SMHS

Address: 2120 L Street NW, Ste 530 City: Washington State: DC Zipcode: 20037

Fac Office Phone: (206) 393-7574

Fac Email Address: addie.boone@gwu.edu

2. Daily Supervisor

Name: Addie Boone Degrees: MD, MPH Title: Assistant Professor Organization: GW SMHS

Address: 2120 L Street NW, Ste 530 City: Washington State: DC Zipcode: 20037

Sup Office Phone: (206) 393-7574

Sup Email Address: addie.boone@gwu.edu

3. Project Information

Project Title

Medical Student Attitudes Toward Unhoused Patients: Impact of an Emergency Department Patient Navigation Program

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

Emergency Medicine Health Disparities, Medical Education Public Health

Translational Level:

T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Homelessness is on the rise again in the District of Columbia after many years of stagnation. Health systems play a pivotal role in caring for people experiencing homelessness (PEH). The emergency department (ED) is an ideal setting for interventions aimed at improving health outcomes for PEH. This study examines the impact on medical student self-reported perceptions, knowledge, competence, and confidence caring for PEH before and after participating in a student-led patient navigation program based in the George Washington University Hospital Emergency Department (GWUH ED) delivering care connection services to PEH who are discharged from the ED. Patient navigation refers to the provision of services by a navigator to help an individual patient overcome barriers to their health care, receive education to promote health literacy, and provide psychosocial support. Through the collection and data analysis of pre- and post-participation surveys by up to 50 medical student patient navigators, we aim to increase insight and understanding of changes in medical student self-reported perceptions in their attitudes, skill level, and confidence in caring for people experiencing homelessness and other marginalized patient populations.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

In most studies, navigator roles were filled by community health workers or social workers, which are often a limited resource. However, given the known benefits of early service learning in medical school, we hypothesize that the use of medical student patient navigators may be more sustainable, with mutual benefit for both student and patient alike. To our knowledge, there are no prior studies investigating the utility of medical student-run patient navigation services delivered in the emergency department (ED) for people experiencing homelessness (PEH). Building on this foundation, our proposed project is a student-run patient navigation program located in the George Washington University Hospital ED (GWUH ED) for patients experiencing homelessness. The initial cohort of patient navigators will be first through fourth year medical student volunteers who sign up for shifts initially during traditional business hours throughout the week. In their role as navigators, students will primarily focus on three areas of service: scheduling follow-up primary and specialty care appointments, assistance with filling prescriptions, and connection to community-based resources to support patient's other health related social needs. We will evaluate student attitudes towards unhoused patients by administering the validated Health Professionals' Attitudes Toward the Homeless Inventory [HPATHI] tool prior to and following the patient navigation training as well as at the three month point after program rollout to re-evaluate medical students' perceptions following participation in the program. Through this patient navigation program, we hypothesize that patients who receive student-led patient navigation services upon discharge from the ED will have: 1) higher rates of adherence with specialty and primary care follow up appointments; 2) fewer return visits to the ED; and 3) students involved in the patient navigation program will report higher self-perceived efficacy in social advocacy and confidence in their ability to care for underserved patients. The overarching aim of this project is to provide services to better coordinate care and improve health outcomes for our patients across the spectrum of housing instability as well as provide early service learning and community engagement opportunities for students that meaningfully improve their skills, ability, and efficacy in caring for marginalized populations throughout their careers.

Describe the student's role in the project:

Manuscript writing, Development of research skills - help define research questions, review literature, actively participate in research cycle, administer surveys, analyze data and share insights, work closely with faculty mentors, fellow medical students, residents, and other interdisciplinary partners and stakeholders across GW SMHS and GWUH

Describe the mentor's role in the project:

Principal Investigator, mentorship and leadership development, project oversight and regular check-ins ensuring there is clear understanding and correct methodology applied to analysis of data being collected, fostering learning and skill development in research design and execution

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Previous HSS scholars: Alisa Dewald, Anna Buchanan. Additional medical student mentorship on the development, rollout, participation, research and analysis of student-led community engagement and service learning projects including student patient navigation through Street Medicine Initiative (SMI) Student Group and additional mentorship through DC Interdisciplinary Student Health Alliance (DCISHA) Student Group. Additional research projects in population health with several other medical students as well as serving as an instructor across multiple GW SMHS courses.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval. Yes

IRB Number: NCR256997

IRB Date: pending

Submission Date: 2025-12-12

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/25/2025 9:33pm.

1. Faculty Sponsor

Name: Drs. Bowman, Caminita, Niu Degrees: PhD, PhD, MD Title: Psychologist, Biomechanist, Orthopaedic Surgeon
Organization: Children's National Hospital

Address: Fight for Children Sports Medicine Center, 1 Inventa Place City: Silver Spring State: Maryland Zipcode: 20910

Fac Office Phone: (202) 476-4176

Fac Email Address: cbowman@childrensnational.org

2. Daily Supervisor

Name: Chelsey Bowman Degrees: PhD Title: Psychologist Organization: Children's National Hospital

Address: Fight for Children Sports Medicine Center, 1 Inventa Place City: Silver Spring State: Maryland Zipcode: 20910

Sup Office Phone: (202) 476-4176

Sup Email Address: cbowman@childrensnational.org

3. Project Information

Project Title

Factors Affecting Return-to-Sport Following Injuries in Youth Athletes

Upload up to three faculty publications (within the last three years).
JPO ACL age_and_sex_based_frequency_of_graft_and_technique.pdf
JPO modifiable_risk_factors_for_complications.821 (1).pdf

Research Focus (Please select all that apply):

_____ Orthopedics, Pediatrics Surgery

Translational Level: T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The goal of our project is to understand which factors (e.g., injury type, surgical technique, sex, strength, agility, psychological) predict youth athletes' return-to-sport following knee injuries. Returning to prior sport/level of activity and preventing subsequent injuries continues to be the goal and expectation of many pediatric patients that have sustained a sport- knee injury which places great importance on return to sport decision making. Previously used time-based decision making has not been shown to correlate to functional abilities, which is why criterion-based progression for return to sport decision making is critical (Meredith et al., 2020). We collect data from patients at their 6- and 9-month return-to-sport testing. Specifically, patients complete objective and subjective assessments, which are recorded alongside demographic and injury information. We then examine which variables predict successful return-to-sport. Data collection is ongoing as we have approval to extract data as far back as 2015, so far 100 patient records are included in our database so far.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Pediatric patients require specific considerations that differentiate them from adult counterparts. Their dynamic lifestyles often necessitate a swift return to higher levels of physical activity after experiencing injuries. This is especially prominent among young athletes who strive to regain their previous activity levels post-injury. Moreover, adherence to post-injury or post-operative restrictions might be compromised due to factors such as age, physical limitations, or non-compliance with medical recommendations. Healthcare providers developing treatment plans must consider the patient's age, ability to adhere to restrictions, and long-term activity objectives, however there are currently no agreed upon systematic methods for accounting for these variables. Given that there are not well-established predictors of return to sport following knee surgery, we believe that this research will be of interest to other scholars. We have already had one presentation and two posters accepted that utilized data from this database.

Describe the student's role in the project:

The selected student is expected to be involved in all parts of the project, which includes record review, data entry, hypothesis generation, data analysis, and write-up of results. The expectation is that the student will have at least one abstract submission by the end of the summer. More submissions and work toward publication is encouraged. A past Gill Fellow completed four abstracts and remains involved in two publications.

Describe the mentor's role in the project:

A unique feature of our project is the opportunity to work with researchers/doctors with three different areas of expertise. During the summer, full team lab meetings are held at least twice per month and weekly individual meetings between the student and at least one mentor occur. Mentors also encourage students, if they are interested, to shadow mentors and other staff in their clinical roles, so students can have a richer understanding of a youth athlete's return to sport journey.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Last summer, we had a Gill Fellow working on our team. As noted above, he submitted four abstracts and continues to work with the team on two publications. He was also able to observe surgical, physical therapy, biomechanical, and psychological services offered through Children's National and the Fight for Children Sports Medicine center. We also work with other medical students who participate in data entry, hypothesis generation, data analysis, and conference submissions.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/17/2025 3:43pm.

1. Faculty Sponsor

Name: Nathan T. Cohen Degrees: MD Title: Assistant Professor Organization: Children's National

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-2120

Fac Email Address: ncohen@childrensnational.org

2. Daily Supervisor

Name: Xiaotong Li Degrees: BS Title: Research Coordinator Organization: Children's National Hospital

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-3910

Sup Email Address: xli1@childrensnational.org

3. Project Information

Project Title

Quantifying dynamic functional connectivity signatures in pediatric epilepsy

Upload up to three faculty publications (within the last three years).

cohen-et-al-2025-clinical-radiologic-and-pathologic-associations-of-executive-dysfunction-in-children-with-focal.pdf

cohen-et-al-2025-outcomes-of-early-life-focal-cortical-dysplasia-related-epilepsy.pdf

Application of preoperative MRI lesion identification algorithm in pediatric and young adult focal cortical dysplasia-related epilepsy.pdf

Research Focus (Please select all that apply):

_____ Neurology, Neurosurgery, Pediatrics Radiology

Translational Level:

T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Hypothesis 1: Focal cortical dysplasia patients with drug-resistant epilepsy will have altered whole-brain dynamic functional connectivity compared to healthy controls. Hypothesis 2: FCD patients with drug-resistant epilepsy will have greater variability in the connectivity strength between brain regions over time, making it more difficult for the brain networks to communicate smoothly and causing abnormal brain state switching patterns. Focal cortical dysplasia (FCD) is the most frequent etiology of surgically treatable drug-resistant (DRE) epilepsy in children. Using static functional connectivity analysis of resting state functional MRI, we showed that FCD patients with DRE have mutual functional network alterations compared to healthy controls, including diminished static functional connectivity within the dominant network (Xie et al., Annals of Neurology 2024). The majority of resting-state functional connectivity analyses are based on static functional connectivity as averaged across the acquisition of the resting-state fMRI study. However, newer analytic methods allow for the quantitative analysis of dynamic (time-varying) functional connectivity changes to study how FCD affects neural dynamics. The goal of this study is to identify dynamic functional connectivity differences in 50 FCD patients with DRE compared to age- and sex-matched healthy controls and examine whether FCD patients with DRE show abnormal brain network dynamics.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Weeks 1-2: Awardee will conduct background reading and receive orientation to computational imaging software
Weeks 3-4: Awardee will process 50 FCD patient resting-state fMRI and begin quantitative analysis. Age-matched normal fMRI will be obtained from the publicly available NIH Human Connectome Project-Development (HCP-D) dataset. Weeks 5-6: Quantitative data analysis of global and network-specific dynamic functional connectivity differences will be completed. Manuscript will be drafted. Weeks 7-8: The final segment will be spent creating abstract for submission to national meeting (American Academy of Neurology or American Epilepsy Society) and preparing manuscript for final submission. Our program already has a series of >90 pediatric patients with drug-resistant FCD-related epilepsy who have confirmed FCD pathology, including ~50 pediatric FCD-DRE patients with available resting-state fMRI. These patients all had high-resolution, preoperative epilepsy protocol MRI. Through our prior studies, we have already manually segmented the FCD lesions on MRI, and have already pre-processed fMRI data for majority of patients. This study is achievable within the summer timeframe. The primary outcome of the study is to evaluate if there is altered whole-brain dynamic functional connectivity in 50 FCD-DRE patients compared to age- and sex- matched healthy controls. We will also evaluate if there is diminished dynamic functional connectivity state switching within the dominant network in patients with FCD-DRE. Team: Primary Mentor: Nathan T. Cohen, MD: Assistant Professor of Pediatrics and Neurology at GWU; Investigator, Center for Neuroscience Research at Children's National Hospital; Attending Epileptologist and Child Neurologist, Children's National Hospital. Consultant: Hua Xie, PhD: Assistant Professor of Neurology (Research) at GWU; Computational Scientist Consultant: Venkata Sita Priyanka Illapani, MS: Research Staff at Center for Neuroscience Research at Children's National; Computational Scientist

Describe the student's role in the project:

The Gill Fellow will gain experience in quantitative neuroimaging of pediatric epilepsy by performing a focused, mentored project that is expected to be completed in the timeframe. The student will participate in weekly epilepsy imaging laboratory meetings at the Center for Neuroscience Research at Children's National Hospital to include didactic lectures related to pediatric epilepsy, epilepsy neuroimaging and surgery. They will have guided readings and exposure to ongoing discussions about study design, the ethical conduct of research, advanced data and statistical analytic techniques as well as exposure to grantsmanship and collaborative research efforts. The fellow will have the opportunity to attend pediatric epilepsy clinics with Dr. Cohen and colleagues, and to participate in weekly surgical epilepsy conferences at the Children's National Comprehensive Pediatric Epilepsy Program to put their research into context. Additionally, it is expected that this project will yield at minimum a first author abstract at a national meeting, and expect authorship on a derivative publication.

Describe the mentor's role in the project:

Dr. Cohen's research interests include using functional imaging to explore networks underlying pediatric epilepsies and their comorbidities, with a focus on focal cortical dysplasia-related epilepsy. He has expertise in structural and functional imaging techniques and advanced analyses of imaging data. His research has led to key discoveries such as the redefinition of pharmacoresistance in FCD-related epilepsy, the functional network basis of age of seizure onset in FCD-related epilepsy, and demonstrating that limbic network co-localization is a risk factor for pharmacoresistance in FCD-related epilepsy. Recently, his work with Dr. Xie showed that there are mutual functional connectivity alterations in children with FCD-PRE compared to controls, which forms the basis for the present study. Dr. Cohen will be available for day-to-day supervision, mentoring and education.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Dr. Cohen has mentored 3 GW medical students for prior Gill Fellowships, American Academy of Neurology Medical Student Summer Research Fellowship, and Summer METEOR Fellowship.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval. Yes

IRB Number: STUDY00000354

IRB Date: 10/24/2025

Submission Date: 2025-11-17

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/10/2025 5:23pm.

1. Faculty Sponsor

Name: Kirsten Das Degrees: MD Title: Pediatric Adolescent Gynecologist Organization: Children's National Medical Center

Address: 3173 20th St N City: Arlington State: VA Zipcode: 22201

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Fac Email Address: kirstenjdas@gmail.com

2. Daily Supervisor

Name: Marc Levit Degrees: MD Title: Colorectal Chair Organization: Children's National Hospital

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20001

Sup Office Phone: (202) 476-2150

Sup Email Address: mlevitt@childrensnational.org

3. Project Information

Project Title

Creation of Mullerian Anomaly Database

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

_____ Obstetrics/Gynecology _____

Translational Level: T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

500 patient charts (currently have n=50 in database)

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Create a database of mullerian anomaly cases at children's national hospital to answer questions about surgical outcomes, presentations.

Describe the student's role in the project:

Patient chart review, literature review, initial background/methods of any populations, research question development (as able)

Describe the mentor's role in the project:

Reviewing patient charts, educating about mullerian anomalies, providing context clinically for chart review, developing future clinical researchers, learning about the scientific method/hypothesis generating questions

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

I am an incoming attending at CNH so have not had any Gill Fellows/Health Services Scholars, but Dr. Mayhew at CNH has previously mentored students at GWU for summer programs.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

Do not have access currently (not on CNH computer)

IRB Date:

Active IRB as of Fall 2024

Submission Date:

2025-12-10

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/13/2025 4:49pm.

1. Faculty Sponsor

Name: Katie Donnelly Degrees: MD, MPH Title: Associate Professor, Pediatrics and Emergency Medicine
Organization: Children's National Hospital

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20011

Fac Office Phone: (202) 476-4766

Fac Email Address: kdonnell@childrensnational.org

2. Daily Supervisor

Name: Katie Donnelly Degrees: MD, MPH Title: Associate Professor Organization: Children's National Hospital

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20011

Sup Office Phone: (202) 476-4766

Sup Email Address: kdonnell@childrensnational.org

3. Project Information

Project Title

Adolescent Survivors of Community Violence and Return Visits for Care

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

Emergency Medicine _____ Pediatrics Public Health

Translational Level: T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

500 medical records reviewed

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This is a retrospective study of patients between the ages of 12-20 who presented to one of five trauma centers/ED in the Washington DC area with an injury due to community violence who would qualify for HVIP services. The condition measured is follow up visits and ED visits for injury related complaints in the six months post the index injury. The population of interest is patients in that group aged 15-17 with control groups of ages 11-14 and 18-20. We anticipate reviewing 1000 charts to identify 500 eligible cases. This is a multi-center study in that we are identifying patients (names, dates of birth) who presented to five Washington DC area hospitals, however all the data will be pulled from either Children's National electronic medical record (EMR) or The Chesapeake Regional Information System for our Patients (CRISP). This study will be completed over 2 years. The first six months will be devoted to data collection and collaborating with the other hospital sites to allow for data sharing. The next six months will be chart review/CRISP review to ascertain follow up visits and ED visits in the 6 months post injury. We will require 3 months for data analysis 3 months for manuscript review and then the last 6 months will be dedicated to manuscript submission and edits as needed. We will be reviewing data from October 1, 2022 through September 3, 2025. This timeline coincides with both the grant cycles that support HVIPs in DC as well as when the last HVIP in the city, Children's National, was fully set up. Data collection will be done via chart review. Names and dates of birth of patients who qualify will be provided from the DC area HVIPs. We will then attempt to match those patients in Children's EMR and CRISP.

Describe the student's role in the project:

Chart review, data cleaning, abstract and poster preparation

Describe the mentor's role in the project:

oversight, review of data, statistical analysis, manuscript preparation.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

multiple medical students, most recently Colleen Morris and Adam Odolil

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-11-13

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/12/2025 12:34pm.

1. Faculty Sponsor

Name: Kate Douglass Degrees: MD, MPH Title: Professor Organization: Emergency Medicine

Address: 2120 L St, NW, Suite 610 City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 741-2954

Fac Email Address: kdouglass@mfa.gwu.edu

2. Daily Supervisor

Name: Deborah Eke Degrees: MPH Title: Program Analyst Organization: Emergency Medicine

Address: 2120 L St. NW, Suite 610 City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 741-2954

Sup Email Address: deke@mfa.gwu.edu

3. Project Information

Project Title

Assessing the Impact of Emergency Medicine Trainee Quality Improvement Projects on Health Systems in India

Upload up to three faculty publications (within the last three years).

Ciano.Douglass.et.al.Contribution.Partnerships.pdf

DeJohn J, et al. Bridging Hospital Resource Variability Adapting the Escape Room to Integrate Procedure Teaching for Emergency Medicine Trainees in India. JETem 2024. 9(4)SG1-25.pdf

Cutting.Through.Barriers.Lac.Showcase.PDF

Research Focus (Please select all that apply):

Emergency Medicine _____

Translational Level:

T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

This project aims to systematically assess how emergency medicine workforce development thesis projects contribute to health system improvements in partner institutions across India. The thesis projects are developed by individual trainees as part of an ongoing partnership program between GWU and numerous program sites across India. There is an ongoing effort to quantify the impact of these partnership programs, and this project serves as part of that work. Its objectives are to identify the main themes of student quality improvement efforts, evaluate their impact on clinical procedures and overall health system performance, categorize according to theme/area of inquiry, and compile evidence showing the broader effects on emergency care delivery. The outcome will include a structured analysis and a set of measurable indicators that detail the scope and significance of these contributions.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This project will take place over 8 weeks, with the following activities: Conduct a structured review of thesis content from existing bank of thesis projects (1 week) Extract data related to project aims, interventions, outcomes, and reported system impacts. (3 weeks) Develop a framework to categorize types of improvements. (2 weeks) Analyze findings, identify patterns and gaps, and draft a summary report outlining the health system contributions of EM trainee student projects. (2 weeks)

Describe the student's role in the project:

The student will lead the literature-style review of thesis projects, extract key data, organize findings into predefined categories, and conduct a comparative analysis across projects. The final deliverables include a written report, a brief slide deck and dissemination to the GEM team. The student will attend regular check-ins with the mentor team and present progress updates. Peer-reviewed publication is likely depending on the findings discovered during the project.

Describe the mentor's role in the project:

The mentor will help the student grasp the structure of the MEM program and orient them to the context of emergency medicine in India. They will assist in setting up the review framework and ensure that the student's analytical approach is methodologically solid. Throughout the project, the mentor will review draft materials, offer feedback, and support the student in preparing the final deliverables.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

In the past, we have had numerous medical students work with our team usually through the Health Services Scholarship or the Global Health track program. These students have often traveled to contribute to research endeavors, although we have had some students not travel as well. Most projects have incorporated meaningful experiences with research output either as abstracts or publications, along with significant interaction with and support from the Global EM faculty & team.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Not Required)

Please Specify why it is not required:

This project is a review and synthesis of projects already conducted, each of which already obtained local IRB approval at their home institutions.

Submission Date:

2025-12-12

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/08/2025 3:18pm.

1. Faculty Sponsor

Name: Rosenblau Gabriela Degrees: PhD Title: Associate Professor Organization: George Washignton University

Address: Monroe Hall City: Washington State: DC Zipcode: 20052

Fac Office Phone: (202) 994-0438

Fac Email Address: grosenblau@gwu.edu

2. Daily Supervisor

Name: Yen-Wen Chen Degrees: PhD Title: Postdoctoral Associate Organization: George Washignton University

Address: Monroe Hall City: Washington State: DC Zipcode: 20052

Sup Office Phone: (202) 994-0438

Sup Email Address: yenwen.chen@email.gwu.edu

3. Project Information

Project Title

Neural mechanisms of social learning

Upload up to three faculty publications (within the last three years).

s44271-025-00259-w.pdf

Journal of Adolescence - 2025 - Liu - Social Context Matters Characterizing Adolescent Cooperation Strategies When.pdf

3_Rosenblau_neubiorev_2023.pdf

Research Focus (Please select all that apply):

_____ _____ Neurology, Pediatrics Psychiatry

Translational Level:

T0/T1: Basic Science Discovery and Initial Translation to Humans

Project goals and measurable objectives (e.g. number of patient records, assays completed):

This project aims to investigate how the brain represents and uses social knowledge structures of varying granularity during learning about others, with a particular focus on cerebellar mechanisms. Building on recent data-driven work identifying the latent structure of social knowledge - how traits and preferences cluster into meaningful dimensions - we have developed social learning paradigms that allow participants to learn about individuals whose attributes vary in how prototypical or distinctive they are. These paradigms leverage computational modeling to quantify how people update information about others and how the structure of social knowledge constrains these updates. Social learning is measured by a preference learning task in the MRI scanner. During the scan, participants infer a peer's preferences and receive feedback on actual preferences after each trial. PEs are the difference between ratings and feedback, with learning defined as PE reductions over time. Functional MRI data is preprocessed with fMRIPrep, and the cerebellum is processed with SUIT. PEs are used as parametric regressors in a linear mixed effects model in FSL's FEAT to investigate cerebellar activity modulation.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This study uses a cross-sectional design to investigate how adults with and without Autism Spectrum Disorder (ASD) learn about others, and how the cerebellum contributes to this process. We plan to recruit a total of 100 participants between 18 - 40 years old, including individuals with ASD and non-autistic comparison participants. All participants will complete a battery of self-report measures assessing their personality functioning, autistic traits, and cognitive flexibility. They will then attend a single functional MRI (fMRI) session, during which they complete two social learning tasks: a preference- and a trait-based learning task. During the task, participants infer a peer's preferences and traits and receive feedback on actual preferences and traits after each trial. These tasks were designed using data-driven approaches to capture how the structures of social knowledge are applied in prediction-based learning. The student will mainly contribute to the neuroimaging part of the project, following an established in-house data processing protocol. The protocol includes (1) preprocessing fMRI data, which leverages the state-of-the-art imaging preprocessing fMRIPrep pipeline; (2) processing cerebellar data, which is processed with the Spatially Unbiased Atlas Template of the Cerebellum and Brainstem (SUIT) toolbox; (3) conducting quality assessment of the fMRI data. After obtaining quality processed fMRI data, the student will perform statistical analyses using FSL FEAT to examine cerebellar response during social learning. Because the cerebellum, particularly cerebellar posterior lobe (CPL), is densely connected with the higher-level cortical regions such as the medial prefrontal cortex (mPFC), this study will also examine the functional connectivity between CPL and mPFC during the social learning task. These connectivity analyses will help determine whether and how cerebellar-cortical interactions support the use of social knowledge structures when learning about others. This project is expected to provide insights into neural mechanisms of social learning, an area of strong interest within social cognition, computational psychiatry, and neuroscience. Through this work, the student will gain hands-on experience with fMRI study design, data processing, and modeling-based analysis.

Describe the student's role in the project:

The student will take an active role in brain imaging data processing and analysis. The student will receive training on basic brain anatomy, fMRI data preprocessing, in-house fMRI cerebellar data processing, fMRI data quality assessment, as well as programming and statistical analysis with Matlab, R, and High Performance Computing clusters. The student will meet weekly with the daily supervisor for training, troubleshooting, and progress updating. The student will also attend weekly lab meetings, gaining exposure to fMRI data collection, various other research projects in the lab, connecting with lab members, and having the opportunity to develop science communication skills through presenting in lab meetings and supporting poster and oral conference presentations.

Describe the mentor's role in the project:

The mentor will be responsible for developing training models for fMRI data processing, programming, and statistical analysis, and will meet with the student weekly to ensure progress. The mentor will also provide support for troubleshooting and brainstorming.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

The PI has mentored internships by medical students and supported lab rotations at Yale University and at the Heidelberg University Medical Hospital. In addition, the PI and direct supervisor jointly mentored one medical student through this summer research program in 2025.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

NCR191133

IRB Date:

current

Submission Date:

2025-12-08

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/07/2025 3:30pm.

1. Faculty Sponsor

Name: Andrea Hahn Degrees: MD, MS Title: Associate Professor Organization: Children's National

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 545-2750

Fac Email Address: alhahn@childrensnational.org

2. Daily Supervisor

Name: Andrea Hahn Degrees: MD, MS Title: Associate Professor Organization: Children's National

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 545-2750

Sup Email Address: alhahn@childrensnational.org

3. Project Information

Project Title

Changing Pseudomonas aeruginosa antibiotic resistance patterns following initiation of highly effective CFTR modulator therapy

Upload up to three faculty publications (within the last three years).

Hahn_et_al-2023-Scientific_Reports.pdf
Krohmalý et al Frontiers in Immunology 2024.pdf
Shumyatsky et al Frontiers in Medicine 2023.pdf

Research Focus (Please select all that apply):

_____ Infectious Disease Pediatrics Pulmonology

Translational Level:

T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Highly effective cystic fibrosis transmembrane conductance regulator (CFTR) modulator therapies have changed the landscape of infection in persons with CF. According to CF Foundation Patient Registry data, infection rates of *Pseudomonas aeruginosa* have decreased from 44% in 2018 to 25% in 2023 (1). Clinical trials have followed persons with CF more than three years following initiation of elexacaftor-tezacaftor-ivacaftor (ETI) and have demonstrated that reductions in *P. aeruginosa* infection are maintained (2). However, these studies have been focused on culture positivity. For those who continue to culture positive for *P. aeruginosa*, no studies have focused on impacts of initiation on *P. aeruginosa* antimicrobial susceptibility. Aim 1: Compare *P. aeruginosa* beta-lactam antibiotic susceptibility patterns in the 3 years prior to ETI initiation to the 3 years following ETI initiation in persons with CF started on ETI therapy. Aim 2: Contrast *P. aeruginosa* beta-lactam antibiotic susceptibility patterns in the 3 years following initiation of ETI in persons with CF started on ETI therapy to 3 years of *P. aeruginosa* beta-lactam susceptibility patterns in persons with CF not eligible for ETI therapy.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Our lab is uniquely situated to begin to answer this question. We have enrolled more than 150 children and adults with CF into our local data and biorepository study, which began collecting data in 2015. We are routinely documenting clinical culture results and have access to *P. aeruginosa* susceptibility data for each strain of *P. aeruginosa* that is detected in culture. While the CF Foundation Patient Registry collects information on *P. aeruginosa* culture results, they request that all users enter data regarding antibiotic class (e.g., beta-lactam, fluoroquinolone, or aminoglycoside) for the most resistant strain, and with resistance being documented as yes only if ALL antibiotics in that class are resistant. As such, these data are limiting and will not be able to accurately assess changes within an antibiotic class. This is especially relevant for beta-lactam antibiotics, where there are many subclasses (e.g., penicillins, cephalosporins, carbapenems) and newer extended-spectrum beta-lactam antibiotics (e.g., ceftolozane-tazobactam, ceftazidime-avibactam) that can be used but may not be captured on standard antimicrobial susceptibility reports. Our hypothesis is that beta-lactam antibiotic resistance decreases after the initiation of ETI. Our lab routinely tests for susceptibility of standard beta-lactams relevant for *P. aeruginosa* (e.g., piperacillin-tazobactam, ceftazidime, cefepime, meropenem) as well as extended spectrum beta-lactam antibiotics (e.g., ceftolozane-tazobactam and ceftazidime-avibactam). We will have identified the patients who meet criteria for the study prior to the medical student beginning the project. Data has already been collected on culture history, including culture positivity for *P. aeruginosa*. The medical student will be responsible for chart review to capture the antibiotic susceptibility data and enter it into a REDCap database. The medical student will work directly with the PI (Dr. Hahn) to analyze the data for the two study aims. The medical student will be responsible for preparing a research abstract and drafting a manuscript for publication. It is expected that the medical student will complete the chart review (estimated to be ~50-75 charts), data analysis, and a draft of the research abstract during the 8 weeks of the Gill fellowship. The drafting of the manuscript will occur after the research abstract is completed. The medical student is expected to present the research abstract at a meeting in the Spring, with a goal to have the manuscript published within 18 months of the study completion. IMPACT: With the successful completion of these study aims, we will be able to address the impact of ETI on *P. aeruginosa* beta-lactam susceptibility patterns in persons with CF. Furthermore, we will be able to compare rates of resistance receiving ETI to those not eligible for ETI therapy, establishing if this presents a new area of health inequity that requires additional resources to address.

Describe the student's role in the project:

Chart review, data analysis, abstract writing, manuscript writing.

Describe the mentor's role in the project:

Identifying eligible study participants, assistance with and supervision of data analysis, abstract writing, and manuscript writing.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

We have had several Gill Fellows in the past. Current students include Anshu Punreddy and Ilana Moffett. Past students include Erin Felton, Caroline Jensen, and Amit Sanyal. All students have presented at regional meetings, most at national meetings, and all have been first or co-author on published manuscripts.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

CNH Pro6781

IRB Date:

12/8/2015

Submission Date:

2025-11-06

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/20/2025 1:31pm.

1. Faculty Sponsor

Name: Nada Harik Degrees: MD, MS Title: Attending in Infectious Diseases Organization: Children's National Hospital

Address: 111 Michigan St NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-2168

Fac Email Address: nharik@childrensnational.org

2. Daily Supervisor

Name: Berkay Balkanci Degrees: MD, MPH Title: Fellow in Infectious diseases Organization: Children's National Hospital

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-2168

Sup Email Address: ubalkanci@childrensnational.org

3. Project Information

Project Title

Epidemiology and presenting symptoms of infantile botulism at Children's National Hospital

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

____ Infectious Disease Neurology, Pediatrics _____

Translational Level: T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Chart review of ~ 50 patients with recording of clinical findings and epidemiologic factors

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Retrospective chart review. Should be able to accomplish review of all cases in 2- 3 months

Describe the student's role in the project:

Chart review of cases of infantile botulism and entering clinical data in a RedCap database

Describe the mentor's role in the project:

Project design, IRB submission, RedCap design, will review and guide the student in data collection and summation of results, will prepare manuscript

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Drs. Harik and Balkanci have mentored many medical students, resident, and fellows

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-11-20

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/06/2025 3:16pm.

1. Faculty Sponsor

Name: Kristen Johnson Degrees: MD, MS Title: Assistant Professor/Hospitalist Organization: Children's National Hospital

Address: 111 Michigan Ave City: Washington State: DC Zipcode: 20010

Fac Office Phone: (571) 235-6524

Fac Email Address: kejohnson@childrensnational.org

2. Daily Supervisor

Name: Kristen Johnson Degrees: MD, MS Title: Hospitalist Organization: Children's National Hospital

Address: 111 Michigan Ave City: Washington State: DC Zipcode: 22030

Sup Office Phone: (571) 235-6524

Sup Email Address: kejohnson@childrensnational.org

3. Project Information

Project Title

Impact of Artificial Intelligence-Generated Plain Language Summaries of Inpatient Progress Notes on Patient and Family Understanding of Medical Care

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

_____ Pediatrics _____

Translational Level: T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Goals are to enroll at least 40 patients this study, which is a randomized, controlled trial to evaluate the use of generative AI plain language summaries as a tool to improve mutual understanding between pediatric attendings and patient families.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This project is the first randomized controlled trial to evaluate whether generative AI-produced plain language summaries of physician notes can improve mutual understanding between pediatric attending physicians and patient families. The study will take place on acute care inpatient floors at Children's National Hospital (CNH). CNH has recently developed a HIPAA-compliant, on-site large language model (LLM), an artificial intelligence system trained on large amounts of textual data with the ability to perform complex natural language processing tasks, including summarization. The principal investigator leading this study is currently conducting a CNH pilot project using this model. Interim findings from that pilot indicate that attending and resident physicians find the generative AI plain language summaries of inpatient progress notes to be generally accurate, complete, and appropriate to share with families. Building on these encouraging results, the current trial will test whether providing these summaries to families improves communication, understanding of diagnosis, and satisfaction with care. Guardians of children aged 0-10 years whose preferred language is English and who are hospitalized on an acute care floor at CNH will be eligible for enrollment. This age range was chosen because guardians are the primary communicators with the medical team for these patients. Participating attending physicians will receive a generative AI-produced plain language summary of one of their signed daily progress notes. They will complete a brief REDCap survey assessing the summary's accuracy, completeness, and tone, and will indicate whether the summary is appropriate to share with the patient's family. If the attending physician deems the summary appropriate, the patient's guardian will be approached for enrollment. Guardians who consent will complete a short REDCap survey describing their understanding of their child's condition. Participants will then be randomly assigned either to receive the AI-generated summary or to a control group that does not receive the summary. Those who receive the summary will read it and complete a short evaluation of its readability, tone, and usefulness. They will then be asked again to describe what they believe their child's diagnosis is, allowing the study to assess any change in understanding. All guardians will also be asked to identify what medications they believe their child is receiving and to rate their satisfaction with communication during hospitalization. The medical student will be responsible for recruiting and enrolling participants, obtaining informed consent from eligible guardians, administering surveys through REDCap, and coordinating with inpatient clinical teams. This position offers experience with clinical research, patient interaction, ethical recruitment, and the implementation of AI tools in healthcare communication.

Describe the student's role in the project:

Support background literature review; recruit and enroll patients; administer study survey

Describe the mentor's role in the project:

Mentor is responsible for IRB submission; oversight of recruitment/enrollment; data analysis; support on data visualization, drafting of poster and manuscript, and dissemination of results.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

I have mentored two Gill Fellows from GW medical school in 2025, both of whom have had successful projects. One project has led to receipt of grant funding, and the other has been presented at a national conference. Both medical students have manuscripts in progress from their work.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-11-06

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/24/2025 5:56pm.

1. Faculty Sponsor

Name: Cemal Karakas Degrees: MD Title: Associate Professor Organization: Children's National

Address: 111 Michigan Ave, NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-2120

Fac Email Address: ckarakas@childrensnational.org

2. Daily Supervisor

Name: Cemal Karakas Degrees: MD Title: Associate Professor Organization: Children's National

Address: 111 Michigan Ave, NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-2120

Sup Email Address: ckarakas@childrensnational.org

3. Project Information

Project Title

Mechanisms of Failure After Focal Cortical Dysplasia Surgery in Children: A Stereo-EEG-Guided Reoperation Study

Upload up to three faculty publications (within the last three years).

1-s2.0-S1059131125002468-main.pdf

VNS in absence sz.pdf

Sociodemographic barriers to epilepsy surgery.pdf

Research Focus (Please select all that apply):

_____ Neurology _____

Translational Level:

T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

20 patients' chart will need to be reviewed

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Background Focal cortical dysplasia (FCD) is a leading cause of drug-resistant epilepsy in children and a common indication for epilepsy surgery. Although many children improve after resection, a substantial subset continue to have seizures or relapse after an initially good response. These "failed" surgeries are often attributed to "incomplete resection," but in reality the epileptogenic network may extend beyond the visible lesion or even involve remote or contralateral regions. Stereo-EEG (sEEG) provides three-dimensional intracranial recordings and is increasingly used to re-evaluate children after failed surgery. However, there are limited data describing how sEEG redefines the epileptogenic zone in this setting and how those findings influence reoperation strategy and outcomes. Overall Goal To use sEEG and imaging data to classify mechanisms of failure after FCD surgery in children and explore how these mechanisms relate to treatment decisions and seizure outcomes. Specific Aims 1. Describe the cohort of children with histologically confirmed FCD who failed an initial resection and subsequently underwent sEEG and additional surgery or neuromodulation. 2. Classify mechanisms of failure based on the spatial relationship between the sEEG-defined seizure-onset zone and the prior resection cavity (e.g., cavity margin, peri-cavity, remote ipsilateral, contralateral, multifocal/bilateral). 3. Explore associations between mechanism of failure, treatment strategy (repeat resection vs disconnection vs neuromodulation), and seizure outcomes. Study Design and Methods This is a retrospective single-center study. The student will work with an existing REDCap/Excel template that includes demographics, clinical history, imaging, surgical details, sEEG findings, and outcomes for approximately 20 patients. The student will: • Perform structured chart review in the electronic medical record to complete missing clinical variables (seizure types, frequencies, ASM history, follow-up). • Assist in extracting standardized information from pre- and post-operative MRI and sEEG reports (lobe/side, lesion description, SOZ location, network pattern). • Help generate summary tables (baseline characteristics, sEEG findings, treatment and outcomes) and simple figures (e.g., bar charts of mechanisms vs outcome). • Conduct basic statistical analyses (descriptive statistics and Fisher's exact/Wilcoxon tests) under supervision. Student Learning Opportunities • Exposure to pediatric epilepsy surgery, FCD, and sEEG-guided reoperation. • Hands-on experience with clinical data abstraction, database management, and basic biostatistics. • Participation in figure and manuscript preparation; potential co-authorship on a conference abstract and manuscript if work is completed as planned. Feasibility for Summer Within a 6-8 week summer block, the student can reasonably complete chart abstraction, finalize the dataset, perform initial analyses, and draft the Results section and 1-2 figures, providing a solid foundation for a full manuscript.

Describe the student's role in the project:

Perform structured chart review in the electronic medical record to complete missing clinical variables (seizure types, frequencies, ASM history, follow-up). Assist in extracting standardized information from pre- and post-operative MRI and sEEG reports (lobe/side, lesion description, SOZ location, network pattern). Help generate summary tables (baseline characteristics, sEEG findings, treatment and outcomes) and simple figures (e.g., bar charts of mechanisms vs outcome). Conduct basic statistical analyses (descriptive statistics and Fisher's exact/Wilcoxon tests) under supervision.

Describe the mentor's role in the project:

Dr. Cemal Karakas will serve as the primary research mentor, overseeing the scientific quality of the project and the student's learning. At the start of the summer, he will orient the student to pediatric FCD, epilepsy surgery, and sEEG, define clear goals, and create a feasible timeline. He will train the student in core research skills, including structured chart review, use of the data collection template (Excel/REDCap), and basic interpretation of MRI, operative reports, sEEG summaries, and seizure outcome scales (Engel/ILAE). Dr. Karakas will meet with the student at least weekly to review progress, answer questions, verify data accuracy, and help resolve ambiguities in the medical record. He will guide the selection and interpretation of simple statistical analyses, ensuring that results are clinically meaningful and methodologically sound. He will also support the student's professional development by providing feedback on scientific writing and presentation skills, advising on how to present this work at meetings, and how to incorporate the experience into future career plans. Finally, he will lead abstract and manuscript preparation, with the intention of including the student as a co-author based on their contributions to data collection, analysis, and drafting.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Our mentor team has extensive experience training medical students in clinical and translational epilepsy research across multiple institutions and project types. Over the past several years, our team have supervised numerous medical students on projects related to pediatric drug-resistant epilepsy, focal cortical dysplasia, epilepsy surgery outcomes, and sEEG-based network analysis. Students have been involved in all stages of research: formulating questions, performing structured chart review, building and cleaning datasets, working with imaging and EEG reports, and helping draft abstracts, posters, and manuscripts.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

Pro00003724

IRB Date:

10/8/2025

Submission Date:

2025-11-24

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/13/2025 4:49pm.

1. Faculty Sponsor

Name: Jennifer Keller Degrees: MD MPH Title: Professor Organization: Medical Faculty Associates

Address: 2150 Pennsylvania Ave NW City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 741-2500

Fac Email Address: jkeller@mfa.gwu.edu

2. Daily Supervisor

Name: Jennifer Keller Degrees: MD MPH Title: Professor Organization: Medical Faculty Associate

Address: 2150 Pennsylvania Ave City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 741-2500

Sup Email Address: jkeller@mfa.gwu.edu

3. Project Information

Project Title

Advancing perinatal mental health and wellbeing: The DC Mother-Infant Behavioral Well

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

Health Disparities Obstetrics/Gynecology Psychiatry, Public Health

Translational Level: T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

There are 300 patient records that need to be reviewed to collect delivery information from EPIC and CERNER.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This is a multi-year, grant funded, project that enrolled 700 Black, pregnant participants to determine effectiveness of several interventions in preventing perinatal mood and anxiety disorders. (350 at GW). Participants were randomized to usual care or the intervention arm and interventions included group or individual therapy, patient navigation and other support services. During the pregnancy patients completed multiple assessments at a variety of timepoints such as screens for depression/anxiety, stress, racism, healthy behaviors etc. Now almost all the participants have delivered and we need to collect information about the deliveries from the EMR. There is ample opportunity for small projects on data that has already been acquired, in addition to the data that we will be collecting.

Describe the student's role in the project:

Student will be performing chart reviews to collect data on delivery outcomes.

Describe the mentor's role in the project:

Mentor will train and supervise the student in the data collection process.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Dr Keller has mentored several Gill students in the past and the projects have resulted in presentations and papers that have been published.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval. Yes

IRB Number: NCR213760

IRB Date: exp 5/28/26

Submission Date: 2025-11-13

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/26/2025 4:16pm.

1. Faculty Sponsor

Name: Michael Keller Degrees: MD Title: Associate Professor Organization: Children's National/CCIR

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-5843

Fac Email Address: mkeller@childrensnational.org

2. Daily Supervisor

Name: Michael Keller Degrees: MD Title: Associate Professor Organization: Children's National/CCIR

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-5843

Sup Email Address: mkeller@childrensnational.org

3. Project Information

Project Title

T cell immunity in combating Astrovirus

Upload up to three faculty publications (within the last three years).

Keller Nat Comm 2024.pdf
Kinoshita TCT 2025.pdf
jiae398.pdf

Research Focus (Please select all that apply):

____ Infectious Disease Pediatrics _____

Translational Level:

T0/T1: Basic Science Discovery and Initial Translation to Humans

Project goals and measurable objectives (e.g. number of patient records, assays completed):

To evaluate the role of T cell immunity in astrovirus infections in healthy and immunocompromised patients

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

We will evaluate T cell responses to major capsid proteins from astrovirus VA1 in healthy individuals as well as in immunocompromised patients with severe astrovirus infection to determine 1) dominant T cell antigens, and 2) if absence of responses correlates with risk of disease. Our team intends to evaluate astrovirus VP90 as a likely dominant antigen, and evaluate the immune responses via basic and spectral flow cytometry. After confirmation, we will then evaluate samples from bone marrow transplant patients with astrovirus to determine if T cell reconstitution against specific viral proteins correlates with viral control.

Describe the student's role in the project:

A summer student may train with our team in basic T cell culture, flow cytometry, and contribute to the healthy donor evaluations of astrovirus responses. Statistical analysis of lab results will also be taught.

Describe the mentor's role in the project:

Dr Keller oversees the translational research laboratory, and will be directly involved in the planning, performance, and analysis of results in this project.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Dr Keller and team have mentored over 25 individuals over the past 12 years, including several Gill and HSS scholars.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

Submission Date:

2025-11-26

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/30/2025 3:24pm.

1. Faculty Sponsor

Name: Amina Khan Degrees: MD, MPH Title: Assistant Professor Organization: CNH/ GWU

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-7200

Fac Email Address: akhan@childrensnational.org

2. Daily Supervisor

Name: Amina Khan Degrees: MD, MPH Title: Assistant Professor Organization: CNH/ GWU

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-7200

Sup Email Address: akhan@childrensnational.org

3. Project Information

Project Title

GLP-1 Therapy for Pediatric Obesity: Experience from a pediatric weight management clinic

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

Health Disparities Pediatrics Pharmacology, Public Health

Translational Level:

T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Childhood obesity remains widespread in the U.S. and contributes to growing rates of related diseases. Recently, glucagon-like peptide-1 receptor agonists (GLP-1RAs), such as liraglutide and semaglutide, have been approved for adolescents, offering effective weight-management and disease-prevention benefits. The IDEAL Clinic Obesity Program at Children's National Hospital is a multidisciplinary pediatric weight-management clinic that has served the DC-Maryland-Virginia region for a decade, providing medical, nutritional, psychological, surgical, and pharmaceutical care. Since FDA approval in 2023, IDEAL providers have prescribed and monitored GLP-1RAs for patients ages 12 and older, but limited research exists on real-world pediatric outcomes. This case series examines the clinic's experience using GLP-1RAs in adolescents. The study's aims are: (1) to describe patient demographics, clinical characteristics, and prescribing practices; (2) to assess outcomes such as weight change, metabolic markers, medication adherence, side effects, and alignment with lifestyle goals; and (3) to identify barriers to access and continuity of treatment, including insurance approval, out-of-pocket costs, supply issues, policy changes, and provider time needed for authorizations.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

The primary objective of this retrospective case series study will be to a) describe clinical characteristics and demographics of patients treated with GLP-1RAs at IDEAL clinic from July 2023 - July 2026, b) evaluate response to treatment and side effects profile, and c) identify barriers to access and continuity of GLP-1 RA treatment. A population of patients seen in IDEAL clinic from July 2023 - July 2026 will be identified with ICD-10 codes for overweight-class 3 obesity. We will collect demographic information that will include insurance status and plan, markers of metabolic disease and obesity-related co-morbidities, and pharmaceutical data including type of GLP-1 RA, duration of therapy, side effects associated with medication via chart review.

Describe the student's role in the project:

Student's responsibility will be managing data entry and assisting with data analysis and coordinating with study team to address any study related issues. Student also has an opportunity to contribute to manuscript preparation and crafting analysis on the benefits and limitations of GLP-1 RA use in pediatric obesity management.

Describe the mentor's role in the project:

Mentor is the Primary Investigator and will provide direct oversight to the student throughout the project. Student will also have the opportunity to shadow PI and learn about pediatric obesity management in IDEAL Clinic as they relate to the study topic. Mentor will also provide guidance on the research process, data analysis, and manuscript publication.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

No prior experience with working with Gill Fellows or Health Services Scholars - this would be an initial experience.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-11-30

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/10/2025 2:32pm.

1. Faculty Sponsor

Name: Daniel King Degrees: MD Title: Associate Professor of Critical Care Medicine Organization: SHMS Department of Anesthesia and Critical Care Medicine

Address: 900 23rd St Nw City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 715-2020

Fac Email Address: daking@mfa.gwu.edu

2. Daily Supervisor

Name: David Yamane Degrees: MD Title: Assistant Professor of Emergency Medicine Organization: SHMS Department of Anesthesia and Critical Care

Address: 900 23rd St NW City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 715-2020

Sup Email Address: dayamane@mfa.gwu.edu

3. Project Information

Project Title

Evaluation of Augmented Reality in Vascular Access.

Upload up to three faculty publications (within the last three years).

botulinum toxin.pdf

midlines.pdf

fassas-et-al-2023-palliative-medicine-and-end-of-life-care-between-races-in-an-academic-intensive-care-unit.pdf

Research Focus (Please select all that apply):

Anesthesiology

Emergency Medicine Medical Education Radiology

Translational Level:

T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Approach and enroll 50 patients in the study. Prepare and submit the abstract to the society of critical care medicine congress at the end of the Summer. Prepare the introduction and methods portion of the proposed manuscript to be submitted to a medical journal.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

May: Familiarize the student with the ultrasound and augmented reality device. Familiarize the student with the vascular access procedure. Ensure IRB CITI training is complete. June-July: Approach and enroll patients for participation in the study. Recording and documenting data points of interest for each procedure. July-August: Data analysis and preparation for submission to SCCM's Critical care Congress.

Describe the student's role in the project:

1. Familiarize themselves with the augmented reality device and familiarize with its use in vascular access procedures. 2. Familiarize yourselves with the steps of vascular access procedures. 3. Responsible for assisting in screening patients and identifying potential subjects for enrollment. 4. Approaching patients or surrogates for enrollment. 5. Supervising the research proceduralist, setting up the Augmented reality headset, troubleshooting technical problems, recording the data points during the procedure. 6. Maintenance of the data record forms. 7. Drafting and submitting the abstract to SCCM congress. 8. Drafting the introduction and methods portion to the proposed manuscript.

Describe the mentor's role in the project:

Supervising the education of the augmented reality system. Supervising the education of the vascular access procedures. supervising the data collection elements. Education about common research processes which include enrollment, data collection, data analysis, and scientific writing. Regularized weekly check ins. Monthly large group research meeting to discuss the project.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Five previous Gill fellows which each of them had at least one successful abstract and manuscript published. Our group also currently supervises multiple other medical students in different projects.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

NCR256463

IRB Date:

9/15/2025

Submission Date:

2025-11-10

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/09/2025 7:49pm.

1. Faculty Sponsor

Name: Jennifer Klein Degrees: MD, MPH Title: Assistant Professor of Pediatrics Organization: Children's National Hospital

Address: 111 Michigan Avenue NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-2020

Fac Email Address: jklein@childrensnational.org

2. Daily Supervisor

Name: Jennifer Klein Degrees: MD, MPH Title: Assistant Professor of Pediatrics Organization: Children's National Hospital

Address: 111 Michigan Avenue City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-2020

Sup Email Address: jklein@childrensnational.org

3. Project Information

Project Title

Myocardial health mediates pre-operative pollutant exposure on adverse outcomes after congenital cardiac surgery

Upload up to three faculty publications (within the last three years).

CHD Op Mort and COI.pdf
SDOH and Fetal Diagnosis Review.pdf
FHS Geospatial Distribution.pdf

Research Focus (Please select all that apply):

Cardiology

Health Disparities Pediatrics Public Health

Translational Level: T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The goal is to evaluate myocardial function as a mediator in the association between air pollution exposure and operative mortality after cardiac surgery. Student will mine data from 1,600 patient records to obtain echocardiographic markers of myocardial function.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This is a retrospective case-control study examining neonatal/infant patients who underwent cardiac surgery from 2007-2023. Data is obtained from electronic medical records and medical databases. Preliminary analysis has been completed and is being written up. This is second step in the project and student will be using some already collected data and adding new data for analysis..

Describe the student's role in the project:

The student will be responsible for data mining from ISCV, the echocardiography database. Student will become familiar with echocardiography reports and data collection related to echocardiographic markers of myocardial function. Student will be responsible for data collection, data cleaning, basic data analysis, and initial manuscript preparation. Student will work closely with research team, comprised of Cardiology fellows, biostatisticians, and Research Coordinators.

Describe the mentor's role in the project:

Mentor will be responsible for teaching student about echocardiography parameters, oversee data collection, cleaning, and analysis, and mentor student through the research process.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Mentored 3 previous GW students, including HHS and Gill recipients.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval. Yes

IRB Number: Pro00015566

IRB Date: 7/1/2021

Submission Date: 2025-12-09

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/11/2025 11:02am.

1. Faculty Sponsor

Name: Brandon Kohrt Degrees: MD, PhD Title: Director Organization: Center for Global Mental Health Equity

Address: 2120 L Street NW, Suite 600 City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 741-2888

Fac Email Address: bkohrt@gwu.edu

2. Daily Supervisor

Name: Chynere Best Degrees: PhD Title: Research Scientist Organization: Center for Global Mental Health Equity

Address: 2120 L Street NW, Suite 600 City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 741-2888

Sup Email Address: cbest@gwu.edu

3. Project Information

Project Title

REstoring mental health through COmmUnity-based Psychological services in New York City (RECOUP-NY)

Upload up to three faculty publications (within the last three years).

kohrt-et-al-2025-expanding-the-non-clinical-mental-health-workforce-protocol-for-a-randomized-controlled-trial-of-a.pdf

Kohrt 2023 Community initiated care.pdf
1-s2.0-S0277953620305979-main.pdf

Research Focus (Please select all that apply):

_____ Health Disparities _____ Psychiatry, Public Health

Translational Level:

T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The project aims to evaluate the effectiveness of Problem Management Plus (PM+) as a mental health intervention in New York. Staff at 39 community-based organizations (CBO) in NYC will be trained in PM+ and data will be collected on their outcomes. The staff trained should have no formal mental health training. Data will also be collected from 30 eligible participants at each organization for a total of 1,170 participants. Half of the participants will be expected to receive PM+ at participating CBOs. The primary outcome is the levels of perceived distress as reported in the PSYCHLOPS. Secondary outcomes include PHQ-9 and GAD-7 results.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

RECOUP-NY is an NIH R01 cluster randomized controlled trial. The trial began in 2021 and is expected to wrap up in 2026. Participants in the study include staff members and clients at participating community organizations. The study accommodates participants who speak English, Spanish, Mandarin, Cantonese and French. CBOs participating in RECOUP-NY have been randomly assigned to the control arm or the intervention arm. In the control arm, clients from the organization are recruited and screened to participate in the study. Eligible participants complete 3 interviews over the course of 20 weeks (Baseline, 10 week follow up and 20 week follow up). Research assistants conduct these interviews through various media (phone, Zoom, in person). Participants are compensated with gift cards for each completed interview. Once the target number of participants has been reached and completed their 10 week follow up, staff at the CBO participate in PM+ training. In the intervention arm, CBO staff participate in PM+ training. The training is hosted online for groups of up to 15 people. The training is offered in 6 week and 12 week formats. Upon completion of the training, clients from the organization are recruited and screened to participate in the study. Eligible participants are expected to complete 5 sessions of PM+ in addition to 3 interviews over the course of 20 weeks (Baseline, 10 week follow up and 20 week follow up). Research assistants conduct these interviews through various media (phone, Zoom, in person). Participants are compensated with gift cards for each completed interview. PM+ trainings are hosted 2-3 times per year. Participant recruitment for both arms is slated to end as of August 2025. Participant data collection is expected to end in January 2026.

Describe the student's role in the project:

The student would assist with secondary analysis of trial data to help with the preparation of additional publications related to the study. Quantitative data encompasses scores on the PSYCHLOPS, PHQ-9, GAD-7 and other tools. Qualitative data encompasses free responses on the PSYCHLOPS and transcripts from interviews conducted with PM+ Helpers, trainers, supervisors and clients. The student will also assist with data collection, cleaning and analysis of a pilot study of PM+ in community organizations in Washington, DC. The student will also conduct qualitative interviews, transcribe interviews and assist with coding qualitative data. Bilingual students will have the opportunity to conduct interviews in the other study languages (see above) and transcribe and translate these interviews.

Describe the mentor's role in the project:

The faculty sponsor is the Principal Investigator for the project. He oversees the overall progress of the project. The daily supervisor is the research coordinator for the project who oversees the day to day operations including communication with the various CBOs, distributing the participant workload among research assistants, coordinating site visits and team meetings, responding to and documenting reportable events, providing guidance on student research related to the project and any other duties as they arise within the project.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Previous medical students who worked on the RECOUP-NY project assisted with the creation of a data dictionary for all tools being used in the project. The student also assisted in background interviews with CBOs. She was also able to do some preliminary analysis on qualitative data provided by the primary outcome measure and is currently working on a scoping review of the primary outcome measure. Another medical student was a Gill Fellow who also had the opportunity to assist with the preparation of other grant applications related to the study intervention.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

#NCR224462

IRB Date:

4/21/2023

Submission Date:

2025-12-10

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/12/2025 10:22am.

1. Faculty Sponsor

Name: Brandon Kohrt Degrees: MD, PhD Title: Charles and Sonia Akman Professor in Global Psychiatry, Professor of Psychiatry and Behavioral Health, Global Health and Anthropology, and Director, Center for Global Mental Health Equity, Vice Chair for Research, Department of Psychiatry and Behavioral Health Organization: Center for Global Mental Health Equity, GW

Address: 2120 L St NW, Suite 600 City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 741-2888

Fac Email Address: bkohrt@gwu.edu

2. Daily Supervisor

Name: Ruta Rangel Degrees: MSc, MPH Title: Program Manager Organization: Center for Global Mental Health Equity, GW

Address: 2120 L St NW, Suite 600 City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 741-2888

Sup Email Address: rbraz@gwu.edu

3. Project Information

Project Title

Ensuring Quality in Psychosocial & Mental Health Care - Service User version (EQUIP-SU)

Upload up to three faculty publications (within the last three years).

Kohrt_Lancet Psychiatry.pdf
Rose AI_Psychiatry Services.pdf
Elnasseh_BJPsych Open.pdf

Research Focus (Please select all that apply):

_____ _____ _____ Psychiatry

Translational Level:

T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Project

Goals:

The overarching goal is to assess the quality of mental health service delivery from the perspective of service users in Washington, DC's Southeast region and to generate actionable insights that strengthen community-based mental health services. The project integrates EQUIP-SU into ongoing PM+ programming to produce original, service-user-driven data that can inform quality improvement, collaboration with CBOs, and future scholarly dissemination. Measurable Objectives: * Collect EQUIP-SU assessments from approximately 15-20 service users receiving PM+ across participating CBOs. * Achieve at least an 80% completion rate for EQUIP-SU among eligible PM+ participants. * Organize and clean all collected data for analysis within the project period. * Produce descriptive summaries of key quality-of-care domains (e.g., respect, communication, safety, involvement in decisions). * Conduct preliminary thematic analysis of service-user comments or qualitative notes. * Develop one written report summarizing findings, implications, and recommendations for CBO partners and the research team. * Contribute to at least one scholarly output, such as a conference abstract or manuscript section, based on the collected data.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This project uses a structured semester-long design to integrate the EQUIP-SU service-user assessment tool into community-based delivery of Problem Management Plus (PM+) in Washington, DC's Southeast region. The student will support data collection with local CBOs, assist service users in completing EQUIP-SU, organize and analyze the resulting quality-of-care data, and prepare a written report summarizing findings and implications. The project generates original data on service-user experiences with low-intensity interventions in a high-income, low-resource urban setting—an area with limited existing research—making the final report valuable to scholars in global mental health, implementation science, and community-based care. Timeline & Activities * Weeks 1-3: Orientation, training in EQUIP-SU and PM+, coordination with CBOs, finalize data collection procedures. * Weeks 4-9: Service-user data collection using EQUIP-SU; maintain structured field notes. * Weeks 10-13: Data cleaning, organization, descriptive analysis, identification of key themes. * Weeks 14-16: Prepare a scholarly report and recommendations; present findings to CBO partners and the research team.

Describe the student's role in the project:

The student will play an active role in supporting data collection, coordination, and analysis related to service-user feedback. This includes assisting service users complete the assessment, and ensuring data are accurately recorded and organized. The student will summarize and interpret quality-of-care data, contribute to feedback reports for partner organizations, and help identify themes or areas for service improvement. Additionally, the student will have opportunities to participate in team meetings, contribute to collaborative manuscripts and presentations, and build relationships with local organizations engaged in mental health service delivery.

Describe the mentor's role in the project:

The mentor will provide ongoing guidance and supervision as the student works on the project, including supporting the student in learning the EQUIP-SU framework, engaging with community-based organizations, and conducting high-quality service-user data collection. The mentor will help the student interpret and summarize findings, facilitate feedback loops with partner organizations, and ensure that all work aligns with project goals and ethical standards. In addition, the mentor will create opportunities for the student to contribute to manuscripts, conference presentations, and broader dissemination efforts, fostering both skill development and meaningful professional growth.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Dr. Kohrt has mentored numerous medical students, including a first authored publication by a medical student (Elnasseh 2024, see above).

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Not Required)

Please Specify why it is not required:

We already have IRB application approved for this project.

Submission Date:

2025-12-12

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/24/2025 11:24am.

1. Faculty Sponsor

Name: Laura Kueny Degrees: MD Title: Pediatric Ophthalmologist Organization: Children's National Hospital

Address: 111 Michigan Ave City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-3015

Fac Email Address: lkueny@cnmc.org

2. Daily Supervisor

Name: Laura Kueny Degrees: MD Title: Pediatric Ophthalmologist Organization: Children's National Hospital

Address: 111 Michigan Avenue City: Washington State: DC Zipcode: 20010

Sup Office Phone: (703) 819-6148

Sup Email Address: lkueny@cnmc.org

3. Project Information

Project Title

Changing the Landscape of Retinopathy of Prematurity

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

____ Ophthalmology _____

Translational Level:

T0/T1: Basic Science Discovery and Initial Translation to Humans

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Obtaining and analyzing laser speckle camera images on patients with Retinopathy of Prematurity to find quantitative factors that signal progression of the disease based on blood flow velocity

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

unable to fit in this word box, please contact me for additional information

Describe the student's role in the project:

Data collection, research analysis, patient education

Describe the mentor's role in the project:

Project oversight, unable to adequately fit in word box, please contact for additional information

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

We accept rotating medical students in their 4th year of training, we also have fellows and residents in Ophthalmology

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval. No (Pending)

Submission Date: 2025-11-24

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 10/23/2025 8:17am.

1. Faculty Sponsor

Name: Eyby Leon Degrees: MD Title: Medical Geneticist Organization: Children's National

Address: 7125 13th PI NW City: Washington State: DC Zipcode: 20012

Fac Office Phone: (202) 545-2495

Fac Email Address: eleon@cnmc.org

2. Daily Supervisor

Name: Sachin Sharad Degrees: DO Title: Medical Genetics Fellow Organization: Children's National

Address: 7125 13th PI NW City: washington State: dc Zipcode: 20012

Sup Office Phone: (202) 545-2495

Sup Email Address: eleon@cnmc.org

3. Project Information

Project Title

Description of a new genetics syndrome

Upload up to three faculty publications (within the last three years).

WNL-2023-001199.pdf

nihms-1858207.pdf

AJMG-188-2738.pdf

Research Focus (Please select all that apply):

Genomics _____

Translational Level: T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Perform deep phenotyping of a rare syndrome. From 1 to 5 patients all seen by supervisor. Issue a case report.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Case report, description of new physical findings and medical information that has not been reported before.

Describe the student's role in the project:

Gathering data from the review of the literature, propose hypothesis on how features can be related to newly or poorly described rare genetic syndrome based on the information already available about the gene, meet the family and patient to report, and be 1st author in the publication

Describe the mentor's role in the project:

Guide student on how to perform a case report of a rare disorder, explain deep phenotyping and how to apply it, give all patient's data, last/senior author in publication

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

In charge of GW medical student genetics rotation in Genetics department at Children's National

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval. No (Not Required)

Please Specify why it is not required:

small amount of cases, if more than 3 will just need an exception

Submission Date: 2025-10-23

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 10/31/2025 10:40am.

1. Faculty Sponsor

Name: Maureen E Lyon Degrees: PhD Title: Professor Pediatrics/Health Psychologist Organization: Children's National Hospital

Address: 111 Michigan Ave. NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (703) 346-2873

Fac Email Address: mlyon@childrensnational.org

2. Daily Supervisor

Name: Maureen E Lyon Degrees: PhD Title: Professor of Pediatrics, Clinical Health Psychologist Organization: Children's National Hospital

Address: 111 Michigan Ave, NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (703) 346-2873

Sup Email Address: mlyon@childrensnational.org

3. Project Information

Project Title

Palliative Care for Children with Rare Diseases and their Families (FACE-Rare)

Upload up to three faculty publications (within the last three years).

Advance Care Planning for Children with Rare Diseases peds.2023-064557.pdf

children special issue rare diseases editorial.pdf

family caregivers rare diseases BMJ 2022 nihms-1051383.pdf

Research Focus (Please select all that apply):

_____ Health Disparities Pediatrics Psychiatry

Translational Level:

T0/T1: Basic Science Discovery and Initial Translation to Humans

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Our goal is to test the efficacy of the FACE-Rare intervention for increasing family caregivers' quality of life and the impact on child healthcare utilization with respect to modifiable social determinants of health

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

SPECIFIC AIMS: Palliative Care Needs of Children with Rare Diseases and their Families. A rare disease is a condition affecting fewer than 200,000 persons.¹ Since pediatric patients with rare diseases experience high mortality,²⁻⁴ families have in common the likelihood of being asked to make palliative care decisions for their child. Pediatric advance care planning (pACP), a key component of palliative care,⁵⁻⁹ involves preparation and skill development to facilitate communication about future medical care choices.¹⁰ pACP has proven to improve communication and spiritual and emotional well-being for children and their families.¹¹⁻¹⁸ Family is operationally defined as the child (ages 1-18 years), legal guardian(s), and support person (chosen by the legal guardian). Due to the uncertainty of a rare disease diagnosis, heavy care demands, and social isolation, rare diseases exact a severe emotional toll on families.^{19,20} In one survey, more than half of family caregivers reported moderate to severe depression and anxiety, significantly greater than the norm.²¹ These children are a heterogeneous group resulting in their exclusion from research.²² Available research for palliative care lacks scientific rigor.²³⁻³⁴ Few empirically validated interventions exist.^{5,6,35} We need to identify effective approaches to improve family quality of life (QoL).³⁶⁻⁴¹ Our goals are to: (1) close a gap in our knowledge⁴² by assessing families' needs for support in a heterogeneous group of children with rare diseases; (2) test a pACP intervention to empower families by providing some control in a low-control situation; and (3) overcome barriers posed by social determinants of health (SDOH) for this unique population, specifically social isolation. Social connection is critical to improving the well-being of families,⁴³ particularly for those with incomes below the Federal Poverty Level and/or those living in rural areas, consistent with the goals of Healthy People 2030⁴⁴ and the NINR's 2026 strategic plan.⁴⁵ Through a process of community based participatory research the FAMily CEntered (FACE) Rare intervention was developed, beta-tested^{46,47} and pilot-tested⁴⁸⁻⁵⁰ by the PI, Lyon, Respecting Choices consultants, CSNAT and Carer Alert Thermometer (CAT) consultant Aoun, and key stakeholders. Theoretically⁵¹⁻⁵³ informed, the FACE-Rare integrates two evidence-based models: (1) the Respecting Choices Next Steps Pediatric ACP™⁵⁴ tailored for these families; and (2) the Carer's Alert Thermometer (CAT).^{55,56} The CAT is the most recent iteration of the Carer Support Needs Assessment Tool, ⁵⁵⁻⁶⁰ adapted by our team for pediatrics.^{46,47} The CAT process assesses the prioritized palliative care needs of both the child and family and develops Shared Support Plans. See Preliminary Studies. To increase scientific rigor and to close the gap in our understanding of the influence of SDOH,⁶¹ we will examine the intersectionality⁶² of child-sex, family-identified race, and household income on outcomes. We will test the efficacy of the innovative FACE-Rare intervention: CAT (Sessions 1 & 2) plus Respecting Choices (Session 3), using a rigorous intent-to-treat, single-blinded, longitudinal, multi-site, randomized controlled trial (RCT) design with 160 family child/ triads. AIM 1. To determine the efficacy of FACE-Rare on family quality of life (QoL) (caregiver appraisals, emotional, spiritual) at 3-, 6- and

Describe the student's role in the project:

RA-Assessor on National Institute of Nursing Research/National Institute of Health funded cost center. Family Caregivers of Children Living with a Rare Disease - needs assessment and advance care planning. We are looking for someone who can bear the suffering they will witness and have the skills of a researcher with respect to asking questions as they are written, persisting, being flexible, intelligent and kind. The person needs to have a flexible schedule to meet the needs of the family. Sessions will be conducted remotely over HIPPA protected Zoom. That is available to work between 7 a.m. to 7 p.m. and 7 days a week as needed by families to meet their schedule. RA-Assessor needs to be available at the convenience of participating families, this will include evenings and occasional Saturdays until data collection is complete. RA-Assessor will administer study questionnaires and enter the data into REDCap. RA will contact the PI, Dr. Lyon, as needed for problem solving. RA will also be responsible for the recruitment of research participants. RA will manage with day-to-day activities, such as subject recruitment, finding transportation and childcare for subjects, scheduling rooms for the intervention/or scheduling Zoom calls or telephone calls for assessments

Describe the mentor's role in the project:

Supervise mentee.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Opportunity to conduct an interim analysis and report results in poster presentation at professional meeting. If interest and time and contribution, opportunity to publish, as medical students and Health Services Scholars have in the past.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-09-03

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/13/2025 1:59pm.

1. Faculty Sponsor

Name: Laila Mahmood Degrees: MD MPH Title: Attending Organization: CNH

Address: 111 Michigan Ave City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-4861

Fac Email Address: Imahmood@childrensnational.org

2. Daily Supervisor

Name: Laila Mahmood Degrees: MD MPH Title: Attending Organization: CNH

Address: 111 Michigan Ave City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-4861

Sup Email Address: Imahmood@childrensnational.org

3. Project Information

Project Title

CAT Tool to assess caregiver needs in families with children with sickle cell seen in the integrative sickle cell clinic.

Upload up to three faculty publications (within the last three years).

impact_of_pediatric_primary_palliative_care.5.pdf

Improving prenatal palliative care consultation using diagnostic trigger criteria.pdf

safety_and_acceptance_of_acupuncture_and.17.pdf

Research Focus (Please select all that apply):

_____ Pediatrics _____

Translational Level:

T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

7 patients per month seen in clinic with a tool given to families and surveys to be completed

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Families will be seen in the integrative clinic 3 times a month. The CAT (carer assessment tool) can be administered to families who are willing to participate and consented for the study. Student will be involved in these administrations and/or in administering the surveys.

Describe the student's role in the project:

Clinical researcher - administering surveys and assessment tools

Describe the mentor's role in the project:

Oversee the tools and surveys as well as patient eligibility

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

prior GW student on VR study

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-11-13

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/12/2025 2:48pm.

1. Faculty Sponsor

Name: Paul Marvar Degrees: PhD Title: Associate Professor Organization: Department of Pharmacology and Physiology

Address: 2300 Eye Street City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 994-5584

Fac Email Address: pmarvar@gwu.edu

2. Daily Supervisor

Name: Paul Marvar Degrees: PHD Title: Associate Professor Organization: SMHS Pharm Phys

Address: 2300 Eye Streer City: Washington State: DC Zipcode: 20016

Sup Office Phone: (202) 994-5584

Sup Email Address: pmarvar@gwu.edu

3. Project Information

Project Title

Examining the molecular biomarker interface between hypertension and dementia

Upload up to three faculty publications (within the last three years).

1-s2.0-S2667174324000533-main.pdf

1-s2.0-S0165178125002215-main.pdf

1-s2.0-S2352289525000360-main.pdf

Research Focus (Please select all that apply):

Cardiology

Geriatrics Neurology Pharmacology, Psychiatry, Public Health

Translational Level:

T0/T1: Basic Science Discovery and Initial Translation to Humans

Project goals and measurable objectives (e.g. number of patient records, assays completed):

This project introduces a new paradigm by integrating spatially resolved brain proteomics with cerebrospinal fluid (CSF) and plasma profiling to define the molecular biomarker interface between hypertension and dementia. By examining molecular signatures across multiple tissues, the study aims to uncover pathways linking blood pressure dysregulation to neurodegeneration. The project has been submitted for national funding, is currently supported at a smaller departmental level, and is seeking assistance to advance early-stage study design and operational workflows. Project Goals and Measurable Objectives • Support the development of a pilot clinical study design, including assistance with IRB preparation and submission. • Identify, source, and catalog patient CSF, plasma, and postmortem brain samples with relevant clinical metadata. • Liaise with clinicians and researchers at GWU engaged in dementia, hypertension, and biobanking to coordinate sample access and data integration. • Identify and communicate with national brain bank repositories to obtain hippocampal and cortical tissue for proteomic profiling. • Contribute to the development of a reproducible workflow for cross-tissue proteomic data collection, sample stratification, and data organization. This project is in an early development phase and is being built in partnership with This project is in an early development phase and is being built in partnership

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

The 8-week project is structured to build the foundations for a future cross-tissue proteomic study examining the molecular interface between hypertension and dementia. During Weeks 1-2, the focus will be on establishing scientific, regulatory, and operational groundwork. The medical student will conduct background reading on hypertension-dementia mechanisms and proteomic technologies to gain familiarity with the project's biological and technical framework. In parallel, they will assist in drafting and organizing IRB documents, including the study protocol, data-handling plan, and sample-use justification required for clinical sample access. The medical student will also begin assembling clinical metadata templates to catalog patient and postmortem materials, and will participate in introductory meetings with GWU collaborators in neurology, geriatrics, pathology, and the biorepository to understand available institutional resources. Weeks 3-4 shift toward sample identification and logistical coordination. The medical student will map available GWU patient samples, including CSF, plasma, clinical records, and blood-pressure histories, to establish an initial inventory pipeline for pilot analyses. They will also initiate communication with national brain repositories such as the NIH NeuroBioBank, learning how to navigate sample-request workflows for postmortem hippocampal and cortical tissue. During this period, the medical student will develop standardized spreadsheets for sample stratification, enabling organized grouping by dementia status and blood-pressure category. Weeks 5-6 emphasize the development of the pilot study framework and early analytical workflows. The medical student will assist with drafting the study design plan, which includes sample-handling procedures, metadata-collection strategies, and preparation steps for the micro-capillary electrophoresis high-resolution mass spectrometry (μ CE-HRMS) proteomic pipeline. Working closely with the research team, the medical student will help outline analytical workflows for plasma, CSF, hippocampus, and cortex, and will contribute to building databases that define variables and structure the upcoming proteomic datasets. Weeks 7-8 center on integration, documentation, and the production of project deliverables. The medical student will compile a comprehensive summary of the 8-week project period, detailing IRB progress, sample availability, workflow development, and communications with external brain bank repositories. They will prepare and present a proposed strategy for sample acquisition and pilot-analysis planning, demonstrating how the project will transition into full-scale implementation once funded. Finally, the medical student will finalize the above, including standard operating procedures (SOPs) to ensure that the study is ready for continuation by the research team. This structured progression, from foundational learning and regulatory preparation, through sample logistics and workflow development, to integration and deliverables, will provide the medical student with meaningful engagement in translational dementia research while establishing essential infrastructure for advancing the hypertension-dementia proteomic project.

Describe the student's role in the project:

The medical student will function as an integral member of the research team during the project's foundational phase. Their responsibilities will include:

- Assisting with IRB document preparation and submission logistics.
- Identifying, cataloging, and organizing patient and biobank samples.
- Communicating with clinicians, coordinators, and national brain repositories.
- Helping create data management spreadsheets and sample metadata templates.
- Supporting early workflow development for proteomic analyses across CSF, plasma, and brain tissue.
- Preparing summary reports, organizational materials, and a final presentation at SMHS research days.

Describe the mentor's role in the project:

- Provide direct supervision and weekly one-on-one meetings.
- Guide the student through IRB preparation, biobank communication protocols, and clinical research compliance.
- Offer training in the biological rationale linking hypertension and dementia, including proteomics fundamentals.
- Facilitate introductions to GWU clinical collaborators, the Brain Health Institute, and dementia research teams.
- Provide feedback on written materials and presentations.
- Support the student's professional development by involving them in team meetings and exposing them to interdisciplinary research environments.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

I have over 11 years of research mentorship experience across multiple trainee levels. Regarding medical students, I have directly mentored two through the HHS program and more than ten additional medical students during my time here through the PHARMACOLOGY 501 course and on a voluntary research basis. Several of these trainees have presented their work at local and national research meetings.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-12-12

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/14/2025 9:20am.

1. Faculty Sponsor

Name: Tim McCaffrey Degrees: PhD Title: Professor of Microbiology, Immunology, and Tropical Medicine
Organization: SMHS

Address: 2300 I Street NW City: Washington State: DC Zipcode: 20052

Fac Office Phone: (202) 994-8919

Fac Email Address: mcc@gwu.edu

2. Daily Supervisor

Name: John Perkins Degrees: MS Title: Research Assistant Organization: SMHS

Address: 2300 I Street NW City: Washington State: DC Zipcode: 20052

Sup Office Phone: (202) 994-8923

Sup Email Address: john.perkins@email.gwu.edu

3. Project Information

Project Title

SENSOR-ICU

Upload up to three faculty publications (within the last three years).

PONE-D-25-10033_R2.pdf

1 cruz-Omicron coinfections JICM 2024.pdf

CyBIS JMDM 2025.pdf

Research Focus (Please select all that apply):

Emergency Medicine, Genomics Infectious Disease _____

Translational Level:

T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The detection of infections can be surprisingly difficult, especially when the infections are biofilms within hollow organs. Using genomic methods, we identified a small panel of RNA biomarkers in whole blood that are highly responsive to internal infections by bacteria, viruses, and biofilms. The SENSOR-ICU Study is tracking these host immune markers in ICU patient as they are treated for life-threatening infections. The goal is to determine whether the host immune markers are predictive of a favorable response to therapy.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This is a follow-up study to The SENSOR Study which was conducted on ED patients that triggered a sepsis alert in the Cerner EHR. Their whole blood RNA was analyzed for our host immune markers using state-of-the-art digital PCR to quantitate RNA biomarker levels. Those results suggested that changes in the RNA biomarkers within just 3 hours was highly suggesting of progression to severe sepsis/septic shock (see publication in press at PLOS One). The SENSOR-ICU study is following critically ill patients with suspected infections over a longer period of time as they are admitted to GW ICU. We have already enrolled 6 patients that were followed for up to 8 days, and the results are surprising. We are confident that we will still have active enrollment through the summer as a publication is finalized. The patient's response to antibiotics is expected to be tracked by the host RNAs that are accurately quantitating the neutrophil activation state. This has tremendous practical and scientific value in the selection of antibiotics and monitoring antibiotic resistance in critically ill patients.

Describe the student's role in the project:

The student will be involved in all phases of the study: patient screening/consent, blood sampling, clinical/lab data collection, and research bench quantitation of RNA biomarkers by ddPCR. The ICU Research Assistants will train the student in ICU research methods, and Dr. McCaffrey's lab will train them in current diagnostic PCR methods. The student will be involved in all phases of the publication process from literature review, data analysis, graphics, and writing.

Describe the mentor's role in the project:

The mentor and our research staff, both clinical and research, will have steady contact with the student to oversee progress.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Our lab and clinical collaborators have mentored Gill Fellows every year for the past 20ish years and each has had a productive learning experience. I believe each has resulted in a peer-reviewed publication, and many remain in contact with the lab, and even returned for other research projects later in their training.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval. Yes

IRB Number: NCR213645

IRB Date: 8/14/2025

Submission Date: 2025-11-14

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/06/2025 11:47am.

1. Faculty Sponsor

Name: Andrew Meltzer Degrees: MD, MS Title: Professor and Attending Physician Organization: GWU

Address: 2120 L Street NW City: Washington State: DC Zipcode: 20003

Fac Office Phone: (202) 715-4911

Fac Email Address: ameltzer@mfa.gwu.edu

2. Daily Supervisor

Name: Isabella Lagunazad Degrees: MS Title: Research Coordinator Organization: GWU

Address: 2120 L Street NW City: Washington State: DC Zipcode: 20003

Sup Office Phone: (202) 715-4911

Sup Email Address: ameltzer@mfa.gwu.edu

3. Project Information

Project Title

Association of Fibrosis with Decreased Ejection Fraction Using FibroScan in CHF Patients

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

Cardiology

Emergency Medicine, Gastroenterology _____ Public Health

Translational Level: T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

This study aims to determine the relationship between liver stiffness, measured by FibroScan®, and cardiac function, measured by ejection fraction (EF), in patients presenting to the emergency department with suspected heart failure. Primary Objective: Assess correlation between FibroScan stiffness (kPa) and EF (%). Secondary Objectives: Evaluate whether stiffness predicts reduced EF (< 40%). Assess diagnostic accuracy of FibroScan for reduced EF. Examine changes in stiffness after diuresis. We plan to enroll 170 participants over six months, yielding approximately 150 analyzable records after exclusions. Each participant will undergo one FibroScan (± repeat) and chart abstraction. Statistical analyses include correlation, logistic regression, ROC/AUC, and multivariable adjustment.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This is a prospective, observational study of adult emergency department patients with suspected congestive heart failure. Eligible participants (≥18 years) who are undergoing echocardiography as part of clinical care will be approached for consent after stabilization. Procedures: Baseline assessment includes demographics and one bedside FibroScan® measurement (~10 minutes). Data from echocardiography, labs (BNP/NT-proBNP, eGFR, LFTs), and clinical outcomes will be abstracted from the electronic medical record. Optional repeat FibroScan will occur 12-24 hours after diuresis in hospitalized patients. Follow-up through 30 days via EHR review (or one brief phone call if needed). Timeline: Months 1-2: Training, device setup, and enrollment initiation. Months 3-8: Active enrollment and data collection (target: ~85 patients per 3 months). Months 9-10: Data cleaning and analysis. Month 11-12: Abstract/manuscript preparation. Deliverables: Completed dataset of 170 participants. Correlation and regression models assessing the liver-heart relationship. Abstract for presentation at a national emergency medicine or cardiology meeting. Manuscript submission for peer-reviewed publication. The study is minimal risk, with the only procedure being non-invasive FibroScan imaging performed by trained staff. No alteration to clinical care is made.

Describe the student's role in the project:

The student will participate in screening, consenting, data collection, and analysis under supervision. Responsibilities include reviewing ED tracking boards for potential participants, assisting with the consent process, performing or observing FibroScan measurements, and abstracting clinical data into REDCap. The student will also help clean and analyze the dataset (correlation and regression analyses in R or Stata) and assist in preparing figures and abstracts for presentation. Through this experience, the student will gain practical exposure to clinical research design, data management, and statistical analysis in translational emergency medicine.

Describe the mentor's role in the project:

Dr. Meltzer will serve as Principal Investigator, providing oversight of study design, IRB compliance, and data interpretation. He will meet weekly with the student to review progress, ensure adherence to the protocol, and provide instruction in clinical research methodology and manuscript preparation. Ms. Lagunazad (daily supervisor) will coordinate training, regulatory documentation, and day-to-day workflow in the emergency department, ensuring the student gains practical research experience while maintaining compliance with human subjects protection standards.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

The mentor team (Dr. Meltzer and Ms. Lagunazad) has extensive experience supervising medical students, residents, and Gill Fellows in clinical research and innovation. Prior mentees have presented at SAEM, ACEP, and AEM, and published in Academic Emergency Medicine and Annals of Emergency Medicine. Dr. Meltzer directs the Clinical Practice Innovation & Entrepreneurship (CPIE) Scholarly Concentration at GW, mentoring >40 students annually in translational and outcomes research. Several past mentees have received Gill Fellowship support or NIH-funded summer research awards.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

NCR246025

IRB Date:

IRB Submission Date: 2025-11-06

Submission Date:

2025-11-06

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 01/20/2026 5:20pm.

1. Faculty Sponsor

Name: LaQuandra Nesbitt Degrees: MD, MPH Title: Senior Associate Dean, Center Executive Director Organization: GW SMHS Center for Population Health Sciences and Health Equity

Address: Ross Hall, 2300 I St NW, Ste 709J, City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 994-2323

Fac Email Address: laquandra.nesbitt@gwu.edu

2. Daily Supervisor

Name: Alyzza Hudson Degrees: MPH, DrPH(c) Title: Data Research Scientist Organization: GW SMHS Center for Population Health Sciences and Health Equity

Address: 2600 Virginia Ave NW, Suite 506 City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 994-0538

Sup Email Address: alyzza.hudson@gwu.edu

3. Project Information

Project Title

What Would You Like to Be True? A Community Health Needs Assessment Using a Systems Approach to Health Equity in Wards 7 and 8

The Research Question: How can community-based system dynamics methods, in partnership with our academic medical enterprise and community, identify structural drivers of health inequities in Wards 7 and 8 and reveal leverage points for transformative change in community health?

Hypothesis:

Embedding community knowledge and lived experience into the CHNA process will generate more accurate, culturally relevant, and actionable findings that:

- Identify structural and systemic causes of inequities,
- Pinpoint leverage points for intervention, and
- Increase institutional readiness to align investments with community-defined priorities.

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

_____ Public Health

Translational Level:

⊗ T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The purpose of this project is to reimagine the Community Health Needs Assessment (CHNA) as a participatory and future-focused process. Instead of centering deficits, this approach elevates community strengths, assets, and visions for thriving. By integrating community expertise alongside institutional leadership, the project aims to co-produce actionable insights that guide health system investment, service delivery, and policy toward equity, possibility, and justice. This project is grounded in principles of Community-Based Participatory Research (CBPR) and Community-Based System Dynamics (CBSD). Traditional CHNAs often emphasize needs and deficits, but they can miss the structural roots of inequities and exclude community voices from shaping solutions. In contrast, this process:

- Establishes a Community Braintrust of local leaders and residents as knowledge co-producers, ensuring that lived experience is valued as essential evidence.
 - Uses participatory modeling (e.g., causal loop diagrams, system mapping) to visualize the complex interactions of structural racism, access to resources, and health outcomes.
 - Identifies leverage points-small but strategic areas within complex systems where intervention can yield outsized impact.
 - Brings together an internal Steering Committee of institutional leaders to align findings with organizational strategy, population health goals, and quality improvement efforts.
-

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- How the project design makes it likely that the objectives will be achieved.
- How the project is likely to result in a report of interest to other scholars.
- How the project fulfills discovery/original research.

The purpose of this research study is to conduct a comprehensive analysis about the community's overall health status and quality of life, including its social, clinical, economic, and environmental factors. This serves as an opportunity to systematically identify the most pressing health needs, challenges, strengths, opportunities, and assets of a community.

Timeline

November 2025 to February 2026--Phase 1 Planning & Mobilization, Convene governance bodies (Steering Committee and Community Braintrust); finalize protocols for compensation of community participants, language access, and group session facilitation; build alignment inside the hospital system and university research community.

The Steering Committee includes GW faculty from the schools of medicine, public health, and law as well as leadership from the GW Global Food Institute and the GW Institute for Socioeconomic Opportunity. The Community Braintrust is composed of organizational and civic leaders from the District of Columbia's Ward 7 & 8. This governance structure is designed to ensure that the Community Based Participatory Research yields meaningful community engagement and that the findings of this study's problem-scoping sessions and community-based system dynamics modeling sessions are reflective of the true needs of the community by developing engagement strategies that are culturally tailored and appropriate.

March 2026 to June 2026-Phase 2 Community-Driven Qualitative Inquiry, CBPR will be used to host 5-6 problem-scoping sessions targeting a total of 300 participants using the question "What would you like to be true?"; conduct group model-building workshops to map systemic drivers of the leading and prioritized vision statements.

The problem-scoping sessions will occur in March 2026 and the prioritized themes from those sessions will be identified in April 2026. Group model building/community-based system dynamics modeling sessions will convene May-June 2026. The problem scoping sessions (also referred to as vision setting sessions) will be conducted at community sites to increase the likelihood that the target population will participate. The problem scoping sessions will yield themes for the group model building/community-based system dynamics modeling sessions. Key stakeholders and subject matter experts have been identified on a range of topics that can be paired with the themes that will emerge and selected to participate in the GMB/CSDM sessions.

July 2026-September 2026-Phase 3 Analysis, Interpretation and Validation, Synthesize qualitative and secondary data; co-interpret findings with both the Steering Committee and Community Braintrust; refine and analyze system maps. The GW SMHS Center for Population Health Sciences and Health Equity research team includes data research scientist with the skill to conduct quantitative and qualitative data analysis.

October 2026-December 2026 Phase 4 Reporting and Dissemination, Produce a public CHNA report and accessible community-facing materials; present findings to institutional leaders to directly inform the next implementation strategy, to include investment in the Community Health Improvement Plan by hospital executive leadership and local philanthropy. This CHNA will be the first CHNA conducted and published specifically for DC's Ward 7 & 8. Subsequent scholarly publications on the use of asset focused approaches and the use of CSDM to develop CHNAs will add to the practice-based knowledge for improving community health.

Describe the student's role in the project:

The student(s) will join the research team for this study during Phase 2. The students will be trained to serve as facilitators of group model building and community-based system dynamics modeling sessions by GW Center for Population Health Sciences and Health Equity staff. With the facilitator toolkit and staff support, students will be able to assist research team members with sessions and actively engage with community members/partners. They will develop qualitative research skills, learn principles of CBPR and meaningful community engagement, establish relationships with community leaders and key stakeholders. Students will also begin work with the team on quantitative data analysis and thematic analysis. If students are interested in continuing with the research longitudinally, they will be permitted to remain engaged with the study. Students will also be encouraged to present aspects of their research at local scientific meetings and community events. Students will be given the opportunity to join writing teams for scholarly publications.

Describe the mentor's role in the project:

Dr. LaQuandra Nesbitt, a board-certified family physician with expertise in population health practice, is the PI for this research study and will serve as the mentor for students on this project. The mentor will meet with students weekly to discuss overall project goals and objectives, identify barriers and facilitators to implementing study aims, and provide students with a collegial work environment. This project is implemented using a team-based science framework and the mentor will ensure that the medical students are integrated into the research team composed of data research scientist, program associates, and community relations specialist. The mentor will provide students with opportunities for engagement with key community stakeholders to expand their knowledge of community providers in the District of Columbia and National Capital Region. The mentor will also identify opportunities for students to engage in scholarship (i.e. publications) related to the study.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

The PI/mentor has experience mentoring and supervising medical students, residents, and fellows as well as graduate students in public health and other related fields. This supervision has occurred in academic/research and practice-based settings for students and trainees attending the University of Maryland School of Medicine, the University of Louisville School of Public Health and Information Sciences, the University of Louisville School of Medicine, the George Washington University Milken Institute School of Public Health, Harvard Medical School, Harvard T.H. Chan School of Public Health, and the George Washington University School of Medicine. The research and population health initiatives occurred at the University of Maryland, the DC Department of Health, the University of Louisville School of Public Health and Information Sciences, and the Louisville Metro Department of Public Health and Wellness. Members of the research team, including the supervisor, have also supervised and mentored medical and graduate students.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

NCR256890

IRB Date:

11/14/2025

Submission Date:

2026-01-20

Completed Form

[FILE: id105_nameLaQuandraNesbitt_2...172034.pdf]

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/11/2025 1:50pm.

1. Faculty Sponsor

Name: Sarah Mulkey Degrees: MD, PhD Title: Fetal-Neonatal Neurologist, Associate Professor Organization: Children's National Hospital

Address: 111 Michigan Ave. NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-5815

Fac Email Address: sbmulkey@childrensnational.org

2. Daily Supervisor

Name: Meagan Williams Degrees: MPH Title: Senior Clinical Research Coordinator Organization: Children's National Hospital

Address: 111 Michigan Ave., NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-3388

Sup Email Address: mewilliams@childrensnational.org

3. Project Information

Project Title

Parents' Experiences of Navigating Pregnancy and Parenthood with Lyme Disease

Upload up to three faculty publications (within the last three years).

Williams et al. 2024 Examining Infant and Child Neurodevelopmental Outcomes After Lyme Disease During Pregnancy.pdf

School Age ND ZIKV_Ped Res 2025.pdf

developmental_impacts_of_perinatal_infections.289.pdf

Research Focus (Please select all that apply):

_____ Health Disparities, Infectious Disease Pediatrics Public Health

Translational Level:

T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The goal of this short-term project is to code and analyze twenty-seven semi-structured qualitative interviews conducted by the research team with parents who had Lyme disease while pregnant.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

The purpose of this mixed methods study is to understand the lived experiences of pregnancy and parenting among gestational parents with Lyme disease. This is the first study to explore the experiences of people who have been pregnant with Lyme disease including the impacts of their disease on decision-making during the perinatal period; their perception of pregnancy, parenting, and child outcomes; and their experiences of seeking medical care for themselves and their children. Interviews were conducted using the phenomenological interviewing method proposed by Bevan (2014) and guided by the Explanatory Model of Illness (Kleinman). Twenty-seven interviews have been completed, and the project is in the coding and analysis stage.

Describe the student's role in the project:

In collaboration with the direct supervisor and other members of the research team, the intern will be responsible for coding and analyzing qualitative interview data for up to 27 interviews using Dedoose. The student will maintain and revise a clear and comprehensive codebook for interview coding and analysis, draft and share memos with the research team, and meet regularly with the team to review progress and findings. Experience with qualitative coding using Dedoose or similar software is beneficial but not required. At the end of the project the student will present to the Mulkey lab and prepare an abstract for presentation.

Describe the mentor's role in the project:

The intern will be supervised by a senior research staff member. The supervisor will train the student in qualitative coding, provide access to coding software and codebooks, and meet regularly with the student and research team to ensure accuracy and completeness of coding, monitor completion of deliverables, and review progress and findings. The faculty mentor will meet with the student regularly and be available for questions. The student can also shadow for clinical experiences in fetal-neonatal neurology during the summer.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

The faculty sponsor has mentored 4 prior GWU Gill Fellows and 1 Health Services Scholar.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.	<input checked="" type="checkbox"/> Yes
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IRB Number:	STUDY00000932
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IRB Date:	2/29/2024
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Submission Date:	2025-12-11
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Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/10/2025 10:24pm.

1. Faculty Sponsor

Name: Martha Perry Degrees: MD Title: Program Director, Adolescent Medicine Fellowship; Clinical Professor of Pediatrics Organization: Children's National Hospital, Department of Adolescent Medicine

Address: 111 Michigan Ave NW, 3.5 W, Suite 400 City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-5464

Fac Email Address: MFPERRY@childrensnational.org

2. Daily Supervisor

Name: Marisa Boch Degrees: MD Title: Adolescent Medicine Fellow Organization: Children's National Hospital, Department of Adolescent Medicine

Address: 111 Michigan Ave NW, 3.5 W, Suite 400 City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-5853

Sup Email Address: MBOCH@childrensnational.org

3. Project Information

Project Title

Pelvic Examination for Clinical Diagnosis of Pelvic Inflammatory Disease: A Retrospective Analysis

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

Translational Level:

T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The primary aim is to assess the frequency of documented pelvic examination among patients diagnosed with PID in the Children's National Hospital (CNH) Emergency Department or Inpatient setting from 2024-2025. The secondary aims are to identify patient and provider-level factors that correlate with completion of a pelvic examination. It is hypothesized that a minority of patients diagnosed with PID have a documented pelvic examination as a result of patient-level factors (i.e. discomfort with exam/pain) and provider-level factors (i.e. discomfort with performing the exam, lack of confidence in ability to interpret exam findings, lack of space, and lack of time). Student Objectives: By August 2026, the student will complete a manual retrospective chart review of 150-300 encounters (~25-50 charts per week over 6 weeks) corresponding to patients with PID seen in the CNH Emergency Department or Inpatient setting. The student will assemble a data set of patient demographics, provider characteristics, encounter information, documentation of pelvic exam, and reason for no examination. The student will perform descriptive statistics for primary outcomes and statistical analysis for ≥ 1 chosen secondary outcome measure. The student will present these findings and potential care gaps/next steps to the Adolescent Medicine Department.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Pelvic Inflammatory Disease (PID) is a spectrum of inflammatory disorders of the upper female genital tract. Episodes of PID often go unrecognized due to many individuals having no symptoms or subtle and non-specific symptoms, yet delay in diagnosis and treatment puts individuals at risk of infertility. It is therefore recommended that health care providers have a low-threshold for clinical diagnosis of PID. According to the Centers for Disease Control, "presumptive treatment for PID should be initiated for sexually active young women and other women at risk for STIs if they are experiencing pelvic or lower abdominal pain, if no cause for the illness other than PID can be identified, and if one or more of the following three minimum clinical criteria are present on pelvic examination: cervical motion tenderness, uterine tenderness, or adnexal tenderness." Pelvic examination is therefore a critical step in the evaluation of PID that, if not performed, may lead to delayed or inaccurate diagnoses, adverse patient outcomes, and increased healthcare utilization. Methods: Inclusion criteria are all CNH Emergency Department and Inpatient encounters with ICD-10 diagnostic codes corresponding to PID from January 2024 through December 2025. Exclusion criteria are any encounters with patients found to have a positive pregnancy test. Prior to the start of medical student work in Summer 2026, IRB approval will be obtained by the Principal Investigator, and a data analytics team member will compile a list of all eligible patient encounters. It is estimated that approximately 300-400 encounters will meet these criteria. Charts will be manually reviewed for relevant measures such as patient demographics (age, gender, race/ethnicity, primary language), provider characteristics (gender, role, department), encounter information (date, length of stay), documentation of pelvic examination, and documented reason for no pelvic examination (if applicable). Statistical analysis of primary and secondary outcome measures will then be performed with the guidance of a statistical team. Results will be presented to the Adolescent Medicine Department and can guide future quality improvement interventions to address gaps in care.

Describe the student's role in the project:

During Summer 2026, the student will conduct a manual chart review of the identified patient encounters. The student will then perform analysis of primary and secondary outcome measures with the assistance of their mentor and a statistical team. The student will synthesize these findings into a presentation to be given to the Adolescent Medicine Department. If the student is interested, they may assist with writing a manuscript publication of these research findings.

Describe the mentor's role in the project:

The student will be directly mentored by Dr. Marisa Boch, a current first-year Adolescent Medicine fellow, and supervised by Dr. Martha Perry. Drs. Boch and Perry will complete the study design and IRB application during Spring 2026 to allow for project completion by the student during Summer 2026. Dr. Boch will assist with manual chart review of identified patient encounters and will have weekly check-ins with the medical student to evaluate chart progress and address barriers to completion. Dr. Boch and Dr. Perry will have joint check-ins with the medical student on a biweekly basis.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Dr. Perry is the current Adolescent Medicine Fellowship Program Director at Children's National Hospital. She previously served as Associate Program Director of the Pediatric Residency Program at University of North Carolina. She has mentored and overseen clinical and scholarly activities for numerous medical students, residents, and Adolescent Medicine fellows. Dr. Boch is a newly appointed GWU School of Medicine Research Instructor within the Department of Pediatrics, and she actively participates in medical student and Pediatric Resident medical education.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-12-10

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/10/2025 11:52am.

1. Faculty Sponsor

Name: Ayal Pierce Degrees: MD Title: Assistant Professor Organization: Dept of Anesthesia & Critical Care Medicine

Address: 900 23rd Street City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 715-2020

Fac Email Address: aypierce@mfa.gwu.edu

2. Daily Supervisor

Name: David Yamane Degrees: MD Title: Associate Professor Organization: Dept of Anesthesia & Critical Care Medicine

Address: 900 23rd Street City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 715-2020

Sup Email Address: dayamane@mfa.gwu.edu

3. Project Information

Project Title

A retrospective review of ECMO Outcomes to guide future management

Upload up to three faculty publications (within the last three years).

pierce_Pub_1.pdf

Incidence and Predictors of Acute Kidney Injury and Continuous Renal Replacement Therapy in Critically Ill Trauma Patients_ A 10-Year Retrospective Analysis - Pierce - 2025 - Artificial Organs - Wiley Online Library.pdf

feltes-et-al-2023-thrombolytics-in-cardiac-arrest-from-pulmonary-embolism-a-systematic-review-and-meta-analysis.pdf

Research Focus (Please select all that apply):

Cardiology

Emergency Medicine Pulmonology

Translational Level:

T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The goal of this project is to look at all GW ECMO in the past 10 years to look at our outcomes and practices to guide future management. We will likely look at multiple factors and outcomes leading to multiple projects and papers. Students will likely start with our anticoagulation management for VV ECMO to see what anticoagulation strategy is needed for patients on VV ECMO for ARDS. Students will do a retrospective chart review on 250 charts with predetermined data objects to collect. They will then work with a statistician to perform analytics on this data, unless the student is adept at statistics. After chart review, they will draft and submit an abstract for the upcoming SCCM conference who's abstracts are due at the end of the summer (Early August). They will then be mentored on drafting the Introduction and Methods for manuscript submission

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

The design of this research project is a retrospective chart review, likely to start with anticoagulation strategies on ECMO to see how it affects outcomes and complications, but our IRB is for lots of retrospective outcomes that are attainable. Timeline: May: Onboarding. Ensuring student has access to redcap, cerner, iRIS, and making sure citi training is up to date. End of May - Mid July: Data collection and Analysis. Mid July to SCCM submission deadline (Early August): Abstract submission and revision.

Describe the student's role in the project:

As mentioned above, students will first learn about ECMO basics and physiology so as to understand the project they are working on. I will be lecturing them on this as well as giving them assigned reading. As mentioned previously they will do data collection and retrospective chart review first, once this is done they will work with a statistician to do data analytics and then will draft an abstract for national conference submission. We will have weekly project check in and a monthly ICU research meeting the student will be expected to join.

Describe the mentor's role in the project:

We will be mentoring the student through every step, from medical education in ECMO, to data abstraction, to abstract and manuscript drafting. . We will do weekly check ins, monthly larger research meeting. As mentioned above we will check in weekly and then will prepare them to present progress at the monthly ICU research meeting

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Our ICU research team has a proven track record of not only providing students with a tangible research project, but also getting them abstract and manuscript publications. Many of our past gill fellows have continued working with us through graduation given Dr. Yamane's strong pipeline of research mentorship in the ICU

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.	⊗ Yes
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IRB Number:	Submitted, Pending Approval
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IRB Date:	Submitted, Pending Approval
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Submission Date:	2025-11-10
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Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/18/2025 5:30pm.

1. Faculty Sponsor

Name: Mandi L. Pratt-Chapman Degrees: PhD Title: Professor, Medicine; Assoc Dir Sci Comm & Dissemination
Organization: GW Cancer Center

Address: (Remote - PO Box 53) City: Addison State: maine Zipcode: 04606

Fac Office Phone: (571) 213-2558

Fac Email Address: mandi@gwu.edu

2. Daily Supervisor

Name: Dana Rosenberg Degrees: RN, MPH Title: Evaluation Associate Organization: GW Cancer Center

Address: Remote / Virtual City: Washington State: dc Zipcode: 20052

Sup Office Phone: (703) 881-2383

Sup Email Address: dana.rosenberg@gwu.edu

3. Project Information

Project Title

Improving Safety and Quality for LGBTQI People Affected by Cancer

Upload up to three faculty publications (within the last three years).
prattchapman_2025_oj_250532_1749744082.66829.pdf

pratt-chapman-et-al-2024-strategies-for-advancing-sexual-orientation-and-gender-identity-data-collection-in-cancer.pdf
CAM4-14-e70727.pdf

Research Focus (Please select all that apply):

Cancer

Medical Education

Translational Level: T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Apply qualitative coding in NVivo for 6 transcripts of focus groups with LGBTQI people affected by cancer from diverse sociopolitical areas

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This project supports Aim 1 of a funded research study: To identify patient-level needs and preferences for SOGI data disclosure in clinical interactions. We will conduct 6 focus groups with LGBTQ+ people (n=48) affected by cancer in 6 states heterogeneous in state-level protections for LGBTQ+ people. We will: a) explore social and power structures relevant to patient health care interactions around SOGI disclosure; b) document how anti-LGBTQ+ state and federal actions are affecting patient disclosure of SOGI, c) identify patient and caregiver preferences for how to be asked about SOGI in cancer care and whether SOGI should be documented; and d) gather suggestions for trauma-informed data collection and care practices to improve LGBTQ+ patient outcomes. Data will refine content of TEAM SGM to provide adaptive strategies for SOGI disclosure, collection, and documentation to tailor care. Participation in coding for this aim will result in co-authorship of a research manuscript.

Describe the student's role in the project:

The student will be trained in qualitative coding in NVivo and will conduct coding on 6 focus group transcripts. The student will meet regularly with the PI and day to day supervisor to obtain consensus on any conflicts in coding. The student will support writing and publication of a manuscript of findings.

Describe the mentor's role in the project:

The PI will provide reading, direct teaching, an initial codebook and review of data analysis to support development of qualitative data analysis skills. The mentor will conduct the focus groups. The day to day supervisor will be the point of contact for all focus group participants and will be the second coder.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

I have supervised a Gill Fellow in 2017, resulting in two conference presentations and one manuscript: 58. Pratt-Chapman, M.L., Abon, N. (2021). An Audit of the Medical Pre-Clinical Curriculum at an Urban University using the Association of American Medical Colleges Guidelines for Sexual and Gender Minority Health. Medical Education Online. <http://dx.doi.org/10.1080/10872981.2021.1947172>. In 2022, I mentored a medical student to author their first, first-author publication after a two week elective: 68. Leighton, N., Pratt-Chapman, M.L., Peters, B. (2022). Gender-Affirming Care in Plastic Surgery Training: Moving Beyond Metrics of Exposure. Plastic and Reconstructive Surgery. doi: 10.1097/PRS.0000000000008840. In 2024-2025, I mentored a medical student, Beck Gold, resulting in one publication where they are a co-author with three additional manuscripts in press or under review, including a first-author paper: Pratt-Chapman, M.L., Mullins, M.A., Gold, B., Insalaco, M.E., Rosenberg, D., Miech, E., Kamen, C. (2025). Patient Sexual Orientation and Gender Identity Information Practices in Oncology. JAMA Network Open. doi:10.1001/jamanetworkopen.2025.16941

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

To be submitted

Submission Date:

2025-11-19

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/08/2025 4:15pm.

1. Faculty Sponsor

Name: Sauharda Rai Degrees: PhD Title: Assistant Research Professor Organization: Center for Global Mental Health Equity

Address: 2120 L Street Suite 600 City: Washington DC State: Washington DC Zipcode: 20037

Fac Office Phone: (202) 741-2888

Fac Email Address: sauharda@gwu.edu

2. Daily Supervisor

Name: Sauharda Rai Degrees: PhD Title: Assistant Research Professor Organization: Center for Global Mental Health Equity

Address: 2120 L Street Suite 600 City: Washington DC State: Washington DC Zipcode: 20037

Sup Office Phone: (202) 741-2888

Sup Email Address: sauharda@gwu.edu

3. Project Information

Project Title

Assessing Mental Health and Economic Impacts of Climate Hazards and Disasters on Adolescents in Low-Resource Settings (AMHEAL)

Upload up to three faculty publications (within the last three years).

Rangel et al_2025_PLOS Global Public Health_Selection of interventions delivered by non-specialists in low-resource settings.pdf

rai

2023_the-photovoice-method-for-collaborating-with-people-with-lived-experience-of-mental-health-conditions-to-strengthen-mental-health-services.pdf

Mutamba et al 2025_SCAPEU protocol paper.pdf

Research Focus (Please select all that apply):

_____ _____ _____ Psychiatry, Public Health

Translational Level:

T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Understand the mental health impact and associated economic burden of climate change related hazard and disaster among adolescents in low resource settings. Total participants (qualitative = 45 interviews), (quantitative = 128)

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Field level data collection starts on Jan 2026 and will end by April 2026. Data will be collected from adolescents with exposure to climate hazard and disaster in low resource settings in Nepal. The end goal of this pilot study is to generate data to design mental health intervention for adolescents who are at risk of climate related hazard and disaster.

Describe the student's role in the project:

1. Qualitative Analysis - generating themes, coding and write-up 2. Quantitative = support PI and study team in data management, analysis and literature review and writing manuscripts. Students are also welcome to use the data for academic purposes including publications and conference presentations. Students interested in global mental health field work can also have the possibility to travel to Nepal and conduct qualitative follow-up interviews during summer 2026. (Note: funding not available through the study so the students have to solicit funding themselves from GWU) This role is suitable for students who are interested in global mental health and want to learn epidemiological mixed-method research. Ideal students will have some background on qualitative data analysis and biostatistics.

Describe the mentor's role in the project:

As a PI, I will be the direct liaison for the students responsible for their onboarding, supervision and mentoring.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Shewa Adkelekum, medical student at Duke University worked on development of stigma reduction intervention and measure in Nepal, Tony Pham, psychiatry resident at Duke University: worked on the topic of faith healers and mental health in Nepal, Rennie Quin, medical student at University of Auckland: worked on social determinant of mental health study in rural Nepal

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval. Yes

IRB Number: NCR256797

IRB Date: 12/03/2025

Submission Date: 2025-12-08

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/10/2025 5:20pm.

1. Faculty Sponsor

Name: Claudia Ranniger Degrees: MD PhD Title: Assoc Prof Organization: GWU CLASS

Address: 900 23rd St, Rm 405 City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 994-9374

Fac Email Address: ranniger@gwu.edu

2. Daily Supervisor

Name: Scott Schechtman and Rahil Ashraf Degrees: BA Title: Simulation Educator Organization: GWU CLASS

Address: 900 23rd St NW Room 405 City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 994-1896

Sup Email Address: rashraf@gwu.edu

3. Project Information

Project Title

AI feedback for peripheral IV training

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

 Medical Education _____

Translational Level:

T0/T1: Basic Science Discovery and Initial Translation to Humans

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The goals of the current sub project are - to gain broad understanding about the necessary training required for both (commercially available) online and locally hosted LLM's to provide reliable procedural feedback for peripheral IV placement - To quantify the accuracy of feedback provided by trained LLM compared to expert clinicians and trained non-clinicians. We propose to collect between 70-100 videos of subjects performing IV placement. We will use half to train the LLM and the remainder as a validation set. Expert clinicians will also evaluate performance of both validation and training videos, and non clinician educators (who routinely evaluate student performance in these skills) will evaluate validation sets so that a comparison of clinical expert, non clinical educator, and AI evaluation can be made. Errors listed by any of the evaluation modalities will include explanation of the error. A qualitative review of error types, as well as characteristics that may impact AI accuracy (ie skin tone) will be included in the data step to draw further conclusions from the data and plan next steps. Student involvement depends on timing but could include assistance with data collection, selection of LLM models, data analysis, and manuscript preparation.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

AI Procedural Evaluation Each year, clinicians and student clinicians train in various vascular access procedures, such as peripheral IV, ultrasound guided IV, central lines and midlines. The training for these procedures includes demonstration videos, step by step checklists, discussion of common complications, and simulation of the procedures. Learners practice the skills in the CLASS Center's procedural skills lab on models under supervision. However, faculty time to supervise is limited, and often students want to refresh these skills prior to a live procedure - when no supervisor is available. AI has the potential to provide procedural supervision and feedback, using video and audio input. A LLM could be trained to identify discrete steps of the procedure from video and audio input, identify correct/incorrect steps, identify times when learners are not confident of next steps, and provide feedback to learners about their performance. In addition, LLM could potentially be used to identify situations which are at high risk for an incorrect step, and alert users in real time to potential 'wrong' or harmful maneuvers. This information could be provided via AR to the learner, along with a visual (AR overlay) and verbal guide to corrective steps that the learner could choose to implement. The goals of the larger project are - to develop methods by which to train a LLM with procedural information from active learner participants that can be used reliably to evaluate procedural performance for common procedures - To develop/implement a just in time corrective actions/warning system using an AR overlay to facilitate feedback during learning. The goals of the current sub project are - to gain broad understanding about the necessary training required for both (commercially available) online and locally hosted LLM's to provide reliable procedural feedback for peripheral IV placement - To quantify the accuracy of feedback provided by trained LLM compared to expert clinicians and trained non-clinicians. Current phases of the sub project are 1) To videotape trainees placing IV in simulated (mannequin) arm to create derivation and validation sets for LLM training and accuracy analysis 2) To select both online and local LLM for procedural analysis training, and to train LLM on video evaluation using a standard procedure checklist 3) To compare validation LLM results with those obtained from human supervision, including trained clinicians and trained (non clinician) educators. 4) To obtain qualitative and quantitative information regarding LLM and expert evaluation mismatch, including commonly known LLM failure modes. Timeline of this phase of the project: Nov-Dec - Protocol and IRB Submission Jan - LLM selection Feb-March - repeat lit review (AI is a fast moving field!) March-June - data collection March- July - LLM training and validation, and expert/educator evaluations July-Aug - data analysis and manuscript preparation

Describe the student's role in the project:

Student involvement depends on timing but could include assistance with data collection, selection of LLM models, data analysis, and manuscript preparation. We anticipate collecting video data during the Spring and Early Summer 2026, and beginning data analysis concurrently with data collection. A potential student could assist in data (video) collection, scheduling of video review sessions by experts and non-clinician educators, and data management. The student could also assist in obtaining LLM data for comparison. Data analysis, to include statistical comparison as well as qualitative review of discrepancies, could also be conducted by the student. Students would be expected to work in the CLASS Center.

Describe the mentor's role in the project:

This project is being developed and implemented by the mentor directly as it impacts teaching and feedback in the CLASS center.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Prior student support: Medical and Undergraduate Students: a) Victor Sinfuego - Use of AR to teach complex physical diagnosis maneuvers 2025-6 (ongoing) b) Bo Lee - Feasibility of a virtual safety officer in detecting PPE donning and doffing violations. Results published in 2025: <https://doi.org/10.1080/15459624.2025.2471394> c) Randall Ray, SMHS, 2018-2019. Meerkat, a climate controlled glovebox for point of care medical lab in extreme environments. Awarded GW New Venture Competition 2019 Best Medical Device. d) Robin Stiller, SMHS. Health Services Fellowship. Development of an anatomically difficult airway model. (provisional patent 62/146,733) , 2013-2014. e) Ryan Rowberry, SMHS, Efficacy of Simulation Training in Medical Student Skills Retention, 2006. f) Clinical Mentor for Depart of Biomedical Engineering, Bioengineering Senior Design Project Team - i. An AR guided training tool and simulator for REBOA placement, 2025-6 (ongoing) ii. Preventing Falls from OR Tables, 2021-22 iii. Development of a Transvenous Pacemaker Insertion Simulator, 2018-2019. iv. ECG Analysis Toolbox, 2017-2018.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-11-10

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/19/2025 3:10pm.

1. Faculty Sponsor

Name: Michael Ray Degrees: DC, MS Title: Assistant Research Professor Organization: SMHS

Address: 2120 L ST NW Suite 610 City: Washington State: DC Zipcode: 20037

Fac Office Phone: (540) 746-2194

Fac Email Address: michael.ray@email.gwu.edu

2. Daily Supervisor

Name: Michael Ray Degrees: DC, MS Title: Assistant Research Professor Organization: SMHS

Address: 2120 L ST NW Suite 610 City: Washington State: DC Zipcode: 20037

Sup Office Phone: (540) 746-2194

Sup Email Address: michael.ray@email.gw.edu

3. Project Information

Project Title

From acute to chronic: the PREVENT study for understanding pain progression after emergency department visits

Upload up to three faculty publications (within the last three years).

Ray_PREVENT Protocol_2025.pdf

Ray_Emergency Department Visit Frequency Among Adults with Chronic Abdominal Pain.pdf

Ray_Examining the relationship between chronic pain and mortality in US adults.pdf

Research Focus (Please select all that apply):

Emergency Medicine Health Disparities _____ Public Health

Translational Level: T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

To identify cognitive, behavioral, clinical, and treatment-related predictors of the transition from acute to chronic musculoskeletal pain following emergency department (ED) care, and to determine which modifiable factors may serve as targets for future early interventions.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

The PREVENT Study is a prospective observational cohort designed to identify cognitive, behavioral, clinical, and treatment-related predictors of chronic MSK pain development following ED care for acute, post-traumatic neck or back pain. The study plans to enroll 246 adult ED patients presenting with acute pain (< =4weeks) and follows them at 1,3, and 6 months.

Describe the student's role in the project:

The medical student will contribute to the full research workflow-EMR screening, patient approach and informed consent, enrollment, follow-up coordination, and chart audits-while also leading a focused analysis suitable for presentation and publication.

Describe the mentor's role in the project:

As Principal Investigator of the PREVENT study, I will provide direct, hands-on mentorship throughout all phases of the project. My role includes guiding the research design, ensuring adherence to the study protocol, and supervising data collection, participant recruitment, informed consent, and follow-up procedures. I will train the student or research team members in ED-based screening within Cerner, best practices for patient approach and communication, and the ethical conduct of human subjects research. I will oversee all data quality processes, including REDCap management, chart audits, and verification of clinical variables extracted from the medical record. I will meet regularly with trainees to review progress, troubleshoot barriers, refine analytic strategies, and ensure timely completion of project milestones. As a content expert in pain research, I will provide conceptual guidance on interpreting findings, linking results to existing literature, and framing the project's contributions to the field. Finally, I will mentor the trainee in scholarly dissemination, including preparation of abstracts, posters, and manuscripts. My goal is to ensure that the trainee not only complete the project successfully but also develops durable skills in clinical research, scientific writing, and responsible conduct of research.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

The Emergency Medicine Clinical Research Lab is led by Dr. Andrew Meltzer, who has a strong record of training medical students in clinical, translational, and health services research. Students routinely participate in EMR screening, ED-based recruitment, informed consent, data abstraction, and analysis. Many have presented at national conferences such as SAEM and ACEP, and several have earned co-authorship on peer-reviewed publications. My role complements this foundation. I was trained by Dr. Meltzer as a postdoctoral researcher and now serve as an Assistant Research Professor collaborating within his lab. I have mentored students working on pain-science projects, including epidemiologic analyses, qualitative interviewing, chart audits, and patient-facing research activities. Students under my supervision have contributed to manuscripts, abstracts, and institutional research presentations. Together, our team provides a structured, supportive environment in which medical students receive hands-on training, methodological guidance, and opportunities for meaningful scholarly output.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.	<input checked="" type="checkbox"/> Yes
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IRB Number:	NCR246228
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IRB Date:	January 2025
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Submission Date:	2025-11-19
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Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/17/2025 3:31pm.

1. Faculty Sponsor

Name: Roopa Kanakatti Shankar Degrees: MBBS, MS Title: Associate Professor of Pediatrics Organization: Children's National hospital

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-2121

Fac Email Address: roopa.shankar@childrensnational.org

2. Daily Supervisor

Name: Roopa Kanakatti Shankar Degrees: MBBS, MS Title: Associate Professor of Pediatrics, Endocrinologist, Organization: Children's National Hospital

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-2121

Sup Email Address: roopa.shankar@childrensnational.org

3. Project Information

Project Title

Phenotype of Patients with Turner Syndrome in the InsightTS Registry

Upload up to three faculty publications (within the last three years).

Inspiring New Science to Guide Healthcare in Turner Syndrome_ Rationale, Design, and Methods for the InsightTS Registry.pdf

TS_fertility survey study.pdf

TS 2024 guidelines.pdf

Research Focus (Please select all that apply):

Endocrinology, Genomics _____ Pediatrics _____

Translational Level:

T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

InsighTS is a national, multicenter, prospective, longitudinal clinical data registry to improve clinical outcomes in individuals with Turner syndrome (TS). Individuals participating in InsighTS at one of the consortium clinics including our program at Children's National Hospital have their data entered into a secure online, Research Electronic Data Capture (REDCap) application, under the rare disease research consortium- 'Network for Advancing Sex Chromosome Aneuploidy Research Readiness (NASCARR)'. The student will be onboarded to the InsighTS registry, enter data into this IRB approved database for local patients, and will be expected to complete a retrospective study and analyze data (800+ patients currently enrolled) in the registry over the summer with supervision. A sample project is outlined but can be customized to the student's interest based on data available through the Registry. There are also funding opportunities within the NASCARR career enhancement core that students can apply for, as part of the summer research project and will have access to a formal research curriculum, and the opportunity to present at the annual NASCARR meeting in addition to presentation of their abstract at a National Endocrine/Genetics meetings and receive authorship on a publication stemming from their research project.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Research Design: Prevalence and Phenotype of females with Turner syndrome and Isochromosome Xq cell line in the InsighTS Registry: The goal of this study is to study the prevalence and associated phenotypic features of the Isochromosome Xq cell line in girls with Turner syndrome in the InsighTS registry. Historically isochromosome Xq karyotype has been thought to be associated with a more intermediate phenotype compared to 45,X karyotype in TS, but data suggest increased incidence of autoimmune conditions and diabetes. We hypothesize that girls with the isochromosome Xq karyotype will have less severe cardiac abnormalities but have a similar phenotype of other diagnostic outcomes and ovarian function compared with 45, X and a higher prevalence/earlier incidence of autoimmune hypothyroidism. We propose a cross-sectional cohort analysis of karyotypes in girls with TS enrolled in the InsighTS Registry. We currently have 800 patients with data on diagnostic information including karyotype and associated diagnostic features, perinatal information and information on spontaneous puberty and ovarian function. Data will be requested from the Registry for analysis by the trainee in summer of 2026. Statistical plan involves: Descriptive statistics of prevalence of mosaic and non-mosaic isochromosome Xq in this cohort. Logistic regression models to estimate OR and 95% CI for isochromosome Xq karyotype (compared to 45,X) as predictor of spontaneous menarche, detectable AMH, bicuspid AV, coarctation of the aorta, congenital abnormalities of the kidney and urinary tract, hearing impairment, birth weight and perinatal outcomes. We will also assess prevalence of autoimmune disorders including but not limited to thyroiditis, diabetes (type 1 and 2), celiac and inflammatory bowel disease as well as neuropsychiatric diagnoses in those with isochromosome Xq compared with 45,X karyotypes. Timeline: Extract registry data (3 weeks in June-July 2026); Next 3-4 weeks: Clean data and conduct preliminary analyses (July-August 2026); In the subsequent months, draft abstract for presentation and then manuscript to submit to the journal (Sept-Dec 2026)

Describe the student's role in the project:

Students will be onboarded to the InsighTS registry at the CNH site having completed CITI training and will also have the opportunity to apply for a Summer student stipend through the NASCARR funding mechanism. They will abstract data on local participants under the guidance of Dr. Shankar, PI at CNH. They will submit a data access request to obtain registry data and complete the analysis with mentorship from Dr. Shankar's team. They will have access to resources at CNH and through the NASCARR consortium to learn the basics of clinical research, good clinical practice, and become familiar with and train on use of the REDCap database. They will be able to complete a small project as proposed with retrospective data that they will then take the lead to present in abstract form at the 'Summer Expo' for InsighTS trainees as well as the opportunity to submit and present abstracts at National Meetings. They are encouraged to take the lead in the authorship of a manuscript in subsequent months. They will also have the opportunity to attend the multidisciplinary TS clinic and learn from multiple specialists and attend didactics in the endocrine division at CNH.

Describe the mentor's role in the project:

The mentor, Dr. Shankar is the Director of the Turner syndrome Program and the site PI for the InsignTS registry at CNH. She will help the student with onboarding and training to be a part of the study team and have access to the Redcap training and database. The mentor will also support the data access request through the Steering committee of InsignTS and help the student carve out a project in line with their interests and feasible to be completed over the summer. The mentor will set up weekly online check-in's to assess the mentee's progress and help them train on Redcap data entry as well as basic statistical analyses of the data for the project. The mentor will facilitate clinical exposure to TS through the multidisciplinary TS clinic and encourage a broader understanding of endocrinology through access to endocrine didactics each week, as well as a basic understanding of clinical/translational research. The mentor will guide the trainee through steps of abstract/manuscript writing and prepare the trainee for presentations at National Meetings.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

We have hosted Health Service Scholars previously (Dr. Fiona Fimmel and Dr. Jacqueline Fezza) who are now residents at prestigious institutions and authored peer reviewed manuscript as culmination of their summer research projects. We currently have an undergraduate student working on the InsignTS project through December, as well as Pediatric residents and Endocrine Fellows who have been research mentees in the TS program.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

Pro00014616 (CNH), ceded to single IRB, COMIRB (approved through Nov 2026)

IRB Date:

09-15-2020

Submission Date:

2025-11-17

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/09/2025 2:50pm.

1. Faculty Sponsor

Name: Robert Shesser Degrees: MD MPH Title: Professor Organization: Department of Emergency Medicine

Address: 2300 Eye St. N.W. City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 257-4706

Fac Email Address: rshesser@gwu.edu

2. Daily Supervisor

Name: Aditya Loganathan Degrees: BS Title: Urgent Matters Coordfinator Organization: Department of Emergency Medicien

Address: 2120 L St. N.W. City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 257-4706

Sup Email Address: aloganathan@mfa.gwu.edu

3. Project Information

Project Title

Comparative analysis of the costs, roles and responsibilities of Emergency Department registered nurses versus the costs, roles, and responsibility of assistive personnel in the US, UK, and India.

Upload up to three faculty publications (within the last three years).
 A Proposal to Solve the Emergency Department Nursing Shortage.pdf
 The Physician Lead Throughput Model.docx

Research Focus (Please select all that apply):

Emergency Medicine _____

Translational Level: T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The goal is two papers in a peer reviewed journal that expands on the papers listed above

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

We will focus on two papers. One will be a synthesis of the two papers appended to this form that discusses an alternative way to improve ED functioning by employing a "nurse sparing" strategy that redistributes the roles and responsibility of nursing to improve ED throughput. Some of the tasks will be assigned to assistive personnel and some to the medical staff. There will be a cost analysis developed. The student's role will be to work with the bibliography and ensure that we have noted all the major articles that deal with ED throughput. The second portion of the summer will be to work with our partner hospitals in India and the UK to collect comparative cost

Describe the student's role in the project:

On the comparative roles and responsibility paper, the student will be working with our international partners (who have already been identified) to gather their information and write the first draft.

Describe the mentor's role in the project:

I will write the synthesis paper, contact our international partners to define what data we are seeking and assist the summer research student to write the first draft of the paper.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

I have been a coach (I currently have 5 groups) and a POM mentor and have instructed students in their clinical roles for many years.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-12-09

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/11/2025 5:46pm.

1. Faculty Sponsor

Name: Michael Shoykhet Degrees: MD, PhD Title: Director, Center for Neuroscience Research Organization: Children's National Hospital

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-7026

Fac Email Address: mshoykhet@childrensnational.org

2. Daily Supervisor

Name: Michael Shoykhet Degrees: MD, PhD Title: Director, Center for Neuroscience Research Organization: Children's National Hospital

Address: 111 Michigan Ave NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-7026

Sup Email Address: mshoykhet@childrensnational.org

3. Project Information

Project Title

Correlation between behavior and brain activity in children with epilepsy

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

____ Neurology, Neurosurgery, Pediatrics _____

Translational Level: T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Correlate behavioral activities with neurophysiologic recordings in children undergoing stereo EEG monitoring prior to epilepsy surgery; ~160 pts

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Retrospective cohort; annotation of video and sEEG data

Describe the student's role in the project:

The student will annotate the video with timestamps of specific behaviors. The student will then correlate these time stamps with recordings from multiple electrodes in the child's brain and with other available data.

Describe the mentor's role in the project:

Direct supervision and training, mentoring on research subject and methods, The project is a joint effort among Neuroscientists, Neurologists and Neurosurgeons

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

2 Gill fellows, >20 medical students

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

Submission Date:

2025-12-11

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/10/2025 12:46pm.

1. Faculty Sponsor

Name: Amanda Stewart Degrees: MD, MPH Title: Attending physician Organization: Children's National Emergency Department

Address: 111 Michigan Ave. City: Washington State: DC Zipcode: 20010

Fac Office Phone: (858) 231-2165

Fac Email Address: amstewart@childrensnational.org

2. Daily Supervisor

Name: Amanda Stewart Degrees: MD, MPH Title: Attending physician Organization: Children's National Emergency Department

Address: 111 Michigan Ave. City: Washington State: DC Zipcode: 20010

Sup Office Phone: (858) 231-2165

Sup Email Address: amstewart@childrensnational.org

3. Project Information

Project Title

Pediatric emergency department visit characteristics for children and adolescents presenting in police custody

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

Emergency Medicine Health Disparities _____ Public Health

Translational Level: T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Based on an initial brief search, we have identified approximately 5000 visits with "police" as the arrival mode from 2018-2024, many of which may be excluded based on the exclusion criteria above (particularly children arriving in police custody for mental health complaints but not under arrest, which represent a sizeable portion of children brought to the PED in police custody and are being studied separately by a co-investigator on this pilot study). We expect that approximately 3000 charts will require review and data extraction. The data to be extracted will be informed by the clinical experiences and expertise of the study team, a detailed review of the limited available literature, and informational interviews with community partners regarding which data are currently missing from the existing knowledge base and that would be most useful for future advocacy efforts.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This is a retrospective cross-sectional study of children presenting to two urban pediatric emergency departments in police custody from 2018-2024. International Classification of Disease 10 (ICD-10) codes may not be consistently used to assign diagnoses associated with police custody. Thus, we will perform additional chart review using keyword search of triage and provider notes, as well as an arrival mode listed as "police" in the electronic medical record, to identify charts associated with children seen in police custody. Charts will be manually reviewed initially to improve the chart identification model, and subsequently to categorize included/excluded charts and to extract data into a Redcap for analysis. Inclusion criteria: • Children and adolescents ages 8 to < 18 years of age at the time of their PED visit presenting in police custody, such as those who are under arrest but require emergent evaluation (as determined by the custodial law enforcement officer(s)) for injuries or potential intoxication Exclusion criteria: • Children and adolescents already in the custody of a juvenile justice facility (such as those in Department of Youth Rehabilitation Services custody) but who are not acutely under arrest • Children brought in by police for other reasons (such as mental health crisis but not under arrest, unaccompanied minors or children brought in by police for evaluation of potential non-accidental trauma)

Describe the student's role in the project:

Primarily chart review, with the possibility of work on data analysis or manuscript writing depending on students' bandwidth and interest. Students will get authorship on at least one manuscript if they review around 400-500 charts (expected to be able to review around 10 charts per hour).

Describe the mentor's role in the project:

Supervising chart review, study design, data analysis and manuscript preparation/dissemination

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

We have had 3 medical students who participated in chart review in the spring/summer of 2025, and were able to train and support them in their experience.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

Submission Date:

2025-12-10

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/07/2025 11:33am.

1. Faculty Sponsor

Name: Aishwarya Thakur Degrees: MD Title: Assistant Professor/Addiction Medicine Physician Organization: Children's National Takoma Theatre

Address: 6833 4th St NW City: Washington State: DC Zipcode: 20012

Fac Office Phone: (202) 476-2493

Fac Email Address: athakur@childrensnational.org

2. Daily Supervisor

Name: Aishwarya Thakur Degrees: MD Title: Assistant Professor/Addiction Medicine Physician Organization: Children's National Takoma Theatre

Address: 6833 4th St NW City: Washington State: DC Zipcode: 20012

Sup Office Phone: (202) 476-2493

Sup Email Address: athakur@childrensnational.org

3. Project Information

Project Title

Assessing Adolescents' Perspectives on Long-Acting Injectable Buprenorphine for Treatment of Opioid Use Disorder

Upload up to three faculty publications (within the last three years).
phenomenological_description_of_the_experiences_of.4.pdf

Research Focus (Please select all that apply):

_____ Pediatrics Psychiatry

Translational Level: T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

We will be completing a qualitative study of adolescents' experiences who are receiving treatment for opioid use disorders with long-acting buprenorphine. Currently 24 patients in the Addictions Program at Children's National have been started on monthly injectable forms of buprenorphine, which is an alternate treatment to daily oral buprenorphine. We are currently doing a quantitative assessment to determine if long-acting buprenorphine administration improved treatment retention compared to oral buprenorphine forms. However, given that this is a novel treatment in adolescents, we aim to do qualitative interviews to understand what the experience has been like for adolescents who choose this treatment option. Primary goals include: (1) interview at least 10 adolescents on their experience of receiving long-acting injectable form of buprenorphine Objectives: (1) understand if LAI buprenorphine is an acceptable treatment option for adolescents, (2) understand if LAI buprenorphine is feasible for use, (3) understand the negative effects that adolescents may experience when being treated with LAI buprenorphine, (4) how to improve administration of LAI buprenorphine.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This will be a qualitative study, with the primary form of data collection being interviews with patients who were started on LAI buprenorphine. Patients will be recruited when they present to the clinic for LAI buprenorphine administration. Inclusion criteria includes any patient who has received at least one injection of any LAI buprenorphine method, even if they are no longer receiving it for treatment. Demographic data will be collected through the EHR. Semi-structured interview questions will be developed. Themes will be developed concurrently as interviews progress. Given 24 total patients available for recruitment, we will aim for 10 interviews or until we reach thematic saturation, whichever occurs first. Data will be audio recorded and transcribed using a HIPAA compliant transcription service. A codebook will be developed to conduct a thematic content analysis. January - February: IRB will be submitted March - April: questions for qualitative review will be drafted and finalized Summer: conduct at least 10 patient interviews, begin to establish codebook, begin to code data

Describe the student's role in the project:

The student will be a part of recruiting patients in clinic, and also co-facilitating the semi-structured interviews. They will also participate in assessment of themes and development of codebook. If time permits they can begin to analyze the transcribed interviews and code the data.

Describe the mentor's role in the project:

The mentor and team will submit the IRB, identify the patients who can be approached to conduct qualitative interviews, and design the questions to be asked. They will also provide mentorship on the process of qualitative study development, as well as education on opioid use disorders in adolescents and administration of LAI buprenorphine.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

Jesse Ross is currently participating with our team on the quantitative portion of this study

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Pending)

Submission Date:

2025-12-07

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/12/2025 4:03pm.

1. Faculty Sponsor

Name: Laura Tilley Degrees: MD Title: Associate Professor Organization: GW MFA

Address: 2120 L St NW Suite 610 City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 741-3126

Fac Email Address: ltilley@mfa.gwu.edu

2. Daily Supervisor

Name: Laura Tilley Degrees: MD Title: Associate Professor Organization: GW MFA

Address: 2120 L St NW Suite 610 City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 741-3126

Sup Email Address: ltilley@mfa.gwu.edu

3. Project Information

Project Title

Stakeholder Perspectives on the National Disaster Medical System (NDMS) Pilot: A National Capital Region Study

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

Emergency Medicine _____ Public Health

Translational Level:

T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The National Disaster Medical System (NDMS) Pilot Program was authorized by the FY20 and FY21 National Defense Authorization Acts to research, test, and evaluate a whole-of-government approach for the receipt, distribution, and definitive care of combat casualties during a large-scale combat operation (LSCO). As part of this broader effort, the National Capital Region (NCR) Pilot Site is tasked with conducting stakeholder engagement activities to evaluate current NDMS coordination, capabilities, and response gaps. This study represents the evaluation component of the Pilot Program at the NCR site. Specifically, it involves structured and semi-structured interviews with key federal, state, and local stakeholders to assess current NDMS planning and operational readiness, identify strengths and challenges, and capture recommendations for improvement. These interviews will generate qualitative data to inform the evaluation of the NDMS Pilot, guide NCR Response Plan enhancements, and contribute to lessons learned for other Federal Coordinating Centers nationwide.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Background: The National Disaster Medical System (NDMS) Pilot Program was authorized by the FY20 and FY21 National Defense Authorization Acts (NDAA) as a five-year initiative to research, test, and evaluate a whole-of-government approach for the receipt, distribution, and definitive care of combat casualties during a large-scale combat operation (LSCO). The Pilot Program, led by the National Center for Disaster Medicine and Public Health (NCDMPH), is being implemented at five regional sites, including the National Capital Region (NCR). The George Washington University (GWU) has been designated to lead the NCR site beginning in Year 4 (taking over from Deloitte, who managed it years 1-3). A core mandate of the NCR Pilot is to evaluate existing coordination mechanisms, identify strengths and limitations in current NDMS planning, and capture stakeholder perspectives to guide improvements to the NCR NDMS Response Plan. Purpose / Justification: The purpose of this study is to conduct structured and semi-structured interviews with NDMS stakeholders in the NCR to support the evaluation mandate of the Pilot Program. Collecting stakeholder insights is essential for identifying operational gaps, interoperability challenges, and resource needs, which will inform the development of scalable solutions for improving medical surge capacity across the NDMS enterprise. This evaluation effort is justified as it directly supports the congressional directive to assess and strengthen the NDMS's readiness to care for combat casualties during LSCO. Objectives: To gather qualitative insights from federal, state, local, and healthcare system stakeholders on their experiences with NDMS planning, exercises, and coordination in the NCR. To evaluate strengths, challenges, and gaps in current NDMS coordination processes, including patient flow, interoperability of tracking systems, and sustainment of surge capacity. To analyze stakeholder perspectives to inform enhancements to the NCR NDMS Response Plan and contribute lessons learned to other Pilot sites. Research Questions: How do stakeholders perceive the current effectiveness of NDMS planning and coordination processes in the NCR? What challenges or barriers limit NDMS readiness, interoperability, or patient throughput during a potential LSCO? What resources, policies, or organizational changes would stakeholders recommend to strengthen NDMS capabilities? Hypothesis (Exploratory): We hypothesize that structured stakeholder interviews will reveal common themes of coordination challenges (e.g., data interoperability, patient tracking, and resource sustainment) and that these findings can be systematically analyzed to inform NCR response planning and provide transferable lessons to other NDMS sites.

Describe the student's role in the project:

The student will assist in conducting qualitative interviews of NCR stakeholders, coding interview transcripts and writing/editing the manuscript.

Describe the mentor's role in the project:

The mentor will provide oversight of activities on the project. Additionally, will provide mentorship on IRB process, qualitative research design and background in emergency management and disaster preparedness.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

N/A

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

NCR256912

Submission Date:

2025-10-29

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/03/2025 11:35am.

1. Faculty Sponsor

Name: Jason Triplett Degrees: PhD Title: Professor Organization: Children's National Hospital

Address: 111 Michigan Ave, NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-3985

Fac Email Address: jtriplett@childrensnational.org

2. Daily Supervisor

Name: Gourav Sharma Degrees: PhD Title: Postdoctoral Fellow Organization: Children's National Hospital

Address: 111 Michigan Ave, NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-2481

Sup Email Address: gsharma@childrensnational.org

3. Project Information

Project Title

Mechanisms of visual circuit disruption in neurodevelopmental disorders

Upload up to three faculty publications (within the last three years).

Johnson 2023 J Neurosci.pdf

Sharma bioRxiv 2025.pdf

Russell_etal_2022_JNeurophysiol.pdf

Research Focus (Please select all that apply):

Anatomy

_____ Neurology, Neurosurgery, Ophthalmology, Pediatrics _____

Translational Level:

T0/T1: Basic Science Discovery and Initial Translation to Humans

Project goals and measurable objectives (e.g. number of patient records, assays completed):

Goal: To determine the impact of enriched visual experience on SC circuit function in control and FXS mice.

Objectives: 1) Learn surgical techniques for in vivo electrophysiological recordings. 2) Learn signal processing techniques for determining neuronal responsiveness. 3) Record visual responses of single SC neurons in control and environmentally enriched groups. 4) Process tissue and analyze data.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

These experiments will leverage techniques and analyses that are well-established in the Triplett lab and, thus, have a high probability of success. First, mice will be placed in standard housing or an environmentally enriched visual environment (EVE) with high contrast visual stimuli for a period of 10 days. Second, mice will undergo a surgical procedure to implant a metal plate for head-fixation. Third, after adaptation to head-fixation, a craniotomy will be performed to insert a high-density electrode into the SC. Signals will be acquired throughout the presentation of various stimuli and analyzed post hoc to determine visual tuning properties. After the recording, the recording location will be determined by fluorescent histology. To achieve sufficient statistical power, an N of at least 9 will be required for each group. Importantly, all mouse lines and reagents are present in the laboratory, reducing any potential delays in the performance of experiments. These experiments represent original, cutting-edge investigations and are likely to yield high-impact results that will be of broad interest to the neuroscience community. Timeline: After a brief period of training to learn the techniques (2-3 weeks), we expect that the experiments outlined will take approximately 1.5 months to complete, including the collection and analyses of all data. The preparation of a manuscript is expected to take another month.

Describe the student's role in the project:

Student will perform all experimental techniques, collect and analyze data, interpret results in collaboration with mentor, and present the findings in written/oral/poster format as appropriate.

Describe the mentor's role in the project:

The mentor or oversee the training of the student in experimental techniques, meet regularly with the student to discuss results and troubleshoot experiments, and aid in the preparation of data for dissemination to the community as a paper, talk, and/or poster. Importantly, the Triplett lab is relatively small, allowing for frequent interactions between the mentor and all members of the lab.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

I have previously mentored three medical students, including one Gill fellow.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

No (Not Required)

Please Specify why it is not required:

No human subjects

Submission Date:

2025-12-03

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/13/2025 6:05pm.

1. Faculty Sponsor

Name: Paige Trojanowski Degrees: PhD Title: Pediatric Psychologist Organization: Children's National Shaw Metro (primary care)

Address: 641 S St NW Suite 200 City: Washington State: DC Zipcode: 20001

Fac Office Phone: (202) 476-1042

Fac Email Address: ptrojanows@childrensnational.org

2. Daily Supervisor

Name: Paige Trojanowski Degrees: PhD Title: Pediatric Psychologist Organization: Children's National Shaw Metro (primary care)

Address: 641 S St NW Suite 200 City: Washington State: DC Zipcode: 20001

Sup Office Phone: (202) 476-1042

Sup Email Address: ptrojanows@childrensnational.org

3. Project Information

Project Title

Using ecological momentary assessment to examine connections between disordered eating behaviors, affect, and diabetes distress in youth with type 1 diabetes

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

Endocrinology _____ Pediatrics _____

Translational Level: T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The goal of this project is to begin qualitative and potentially quantitative analyses on previously collected data (N=30 adolescents and young adults with type 1 diabetes (T1D) and disordered eating behavior). People with T1D are at significantly elevated risk of disordered eating, but we lack of understanding of how disordered eating, mood, blood glucose levels, and diabetes self-management behaviors influence each other on a daily level. Ecological momentary assessment (EMA) uses mobile technology to repeatedly sample of people's current thoughts, behaviors, or mood in their natural environment in real-time. The primary aim of this study was to examine the feasibility and acceptability of using EMA in youth with T1D and disordered eating. Secondary aims include elucidating psychological (i.e., negative/positive affect, body image satisfaction, diabetes distress) and glycemic antecedents and consequences of disordered eating and examining associations between disordered eating behavior frequency (measured by EMA), self-management behaviors, and self-report measures of eating, weight/shape concerns (e.g., diabetes-eating related risk, weight bias internalization), and diabetes distress, acceptance, and conflict.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

The study consisted of identifying patients with an elevated score on a measure of T1D-specific disordered eating behavior; completing consent, self-report measures, an EMA training session, and 2 weeks of EMA (4-6 phone prompts per day assessing mood and disordered eating); and, providing feedback in a post-study interview. All data were collected at the University of Colorado and are being transferred (di-identified) to Children's National. The only object that will likely be achieved during the summer will be training on qualitative data analysis and helping to code qualitative data. These pilot results will help inform future studies and help with implementing a feasible and acceptable EMA protocol. It is expected that these results will be written into a poster abstract for a national conference and eventually a publication (depending on student's interest).

Describe the student's role in the project:

The selected student will help qualitatively analyze post-intervention interviews, attend regular research meetings, and help prepare an abstract, poster, and/or publication from qualitative results.

Describe the mentor's role in the project:

Overseeing all aspects of the coding process and analysis

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

NA but I have worked as a postdoctoral fellow in a lab that previously had medical student summer trainees, so I am familiar with the process.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval. No (Pending)

Submission Date: 2025-11-13

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/05/2025 2:04pm.

1. Faculty Sponsor

Name: Erica Valdovinos Degrees: MD Title: Assistant Professor Organization: Department of Emergency Medicine

Address: 2120 L St NW, Suite 450 City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 677-6058

Fac Email Address: evaldovinos@mfa.gwu.edu

2. Daily Supervisor

Name: Aditya Loganathan Degrees: BS Title: Clinical Research Coordinator Organization: Department of Emergency Medicine

Address: 2120 L st NW City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 677-6058

Sup Email Address: aloganathan@mfa.gwu.edu

3. Project Information

Project Title

FOCUS: HIV and HCV opt out screening from the emergency department

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

Emergency Medicine Health Disparities, Infectious Disease _____ Public Health

Translational Level: T4: Translation to Population Health

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The FOCUS initiative is an ongoing implementation and evaluation of an opt-out screening program for HIV and HCV in the emergency department as well as linkage to care for patients who screen positive. Goals include increasing screening for HIV and HCV in the ED, increasing linkage to care and retention in care rates after discharge from the emergency department, and increasing patient, provider, and nursing understanding of testing guidelines and

implications of positive screening tests.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This project is ongoing, with ongoing opportunities to evaluate screening rates, positivity rates, and linkage rates throughout. A retrospective cohort study is currently getting started with a plan to analyze the data and submit a manuscript summer 2026 that identifies trends in emergency department visits for people living with HIV not on antiretroviral therapy. Development of a novel collaboration with DC Health is ongoing with opportunities to describe the implementation of a quality improvement initiative with DC Health that leverages emergency department visits, health department surveillance data, and the regional health information exchange to identify, link to care, and retain in care people living with HIV.

Describe the student's role in the project:

The student will assist with data analysis, manuscript preparation, patient follow up to evaluate ongoing retention in care rates

Describe the mentor's role in the project:

Erica Valdovinos and Andrew Meltzer are co-PIs on the project and will work closely with the student.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

This emergency medicine research team has had Gill Fellows and Health Services scholars previously. Both PIs have worked with medical students in coaching and teaching roles.

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval. No (Pending)

Submission Date: 2025-11-05

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/21/2025 2:56pm.

1. Faculty Sponsor

Name: Jessica Weisz Degrees: MD MBA Title: Associate Professor of Pediatrics Organization: Children's National

Address: 3336 14th St NW City: Washington State: DC Zipcode: 20010

Fac Office Phone: (202) 476-5580

Fac Email Address: jweisz@childrensnational.org

2. Daily Supervisor

Name: Jessica Weisz Degrees: MD MBA Title: Associate Professor of Pediatrics Organization: Children's National

Address: 3336 14th St NW City: Washington State: DC Zipcode: 20010

Sup Office Phone: (202) 476-5580

Sup Email Address: jweisz@childrensnational.org

3. Project Information

Project Title

Characteristics and medical needs of uninsured immigrant patient referred to an immigrant health care coordination program based at an academic tertiary care pediatric hospital

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

_____ Pediatrics Public Health

Translational Level: T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

150-200 patient records

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

Immigrant pediatric patients with medical complexity who (1) sought health care via the emergency department (ED), hospital admission, ambulatory subspecialty care, or at mobile health unit and (2) were uninsured/self-pay were referred to the Immigrant Care Coordination team (ICC). With a newly created immigrant health coordinator role, along with social workers and physicians, the ICC team partnered with families to (1) organize medical appointments, (2) navigate the payor landscape to access subspecialty visits, prescriptions, and durable medical equipment, and (3) support families applying for financial assistance or state-sponsored insurance programs.

Describe the student's role in the project:

The program has enrolled at least 120 patients but not all records were accurately completed. We also need to improve the current data tracking system so we can better assess the success of the program. Student will be responsible for chart review to complete the existing data tracking and help to create a new one. This role can be done remotely once the student finalizes their paperwork with Children's National (to get computer access). Team meets virtually every Thursday 3pm and every other Friday at 1 pm. There also might be a role of direct family engagement in insurance enrollment.

Describe the mentor's role in the project:

Mentor will make sure student has access to the necessary documentation, Cerner access to complete the project goals. Mentor will be available virtually for consultation.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

2 Gill Fellow 2025, 1 Gill Fellow 2023

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

Submission Date:

2025-11-21

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 11/17/2025 6:30am.

1. Faculty Sponsor

Name: Michael J. Whalen Degrees: MD Title: Associate Professor of Urology; Vice-Chair, Dept of Urology; Chair, GWUH Robotics Committee Organization: George Washington University School of Medicine & Health Sciences

Address: 2150 Pennsylvania Ave NW, Suite 3-417 City: Washington State: DC Zipcode: 20037

Fac Office Phone: (202) 741-3121

Fac Email Address: mwhalen@mfa.gwu.edu

2. Daily Supervisor

Name: Michael J. Whalen Degrees: MD Title: Associate Professor of Urology; Vice-Chair, Dept of Urology; Chair, GWUH Robotics Committee Organization: George Washington University School of Medicine & Health Sciences

Address: 2150 Pennsylvania Ave NW, Suite 3-417 City: Washington State: DC Zipcode: 20037

Sup Office Phone: (202) 741-3121

Sup Email Address: mwhalen@mfa.gwu.edu

3. Project Information

Project Title

Outcomes Research in Urologic Oncology: Prostate Cancer & Testicular Cancer

Upload up to three faculty publications (within the last three years).

Reverse Polarity RCC Case Report.pdf

Focal Boosted IMRT PCa - Front in Oncol.pdf

Definitive Local Treatment for Metastatic Prostate Cancer_ A National Cancer Database Analysis.pdf

Research Focus (Please select all that apply):

Cancer

Surgery

Translational Level:

T3: Translation to Practice

Project goals and measurable objectives (e.g. number of patient records, assays completed):

The National Cancer Database (NCDB) has thousands of de-identified data samples for patients with testicular cancer and prostate cancer. Our own GW prostate MRI database has n=1295 patients accrued since 2015. The goal of the summer project is to gain valuable experience in cancer outcomes research via exposure to the dynamic field of Urologic Oncology. The student will contribute to (1) the ongoing prospective clinical trial as well as retrospective database research with (2) the National cancer Database as well as (3) The Cancer Genome Atlas and Catalogue of Somatic Mutations in Cancer. Goals: -Literature review to gain a fund of knowledge about the topics under investigation -Acquisition of understanding of fundamental principles in critical review of the literature, compilation of relevant peer-reviewed publications to serve as references -Acquisition of understanding of biostatistics, including the ability to understand basic analyses used in cancer outcomes research, and to work with GW biostatisticians to learn to perform these analyses. -Drafting of an abstract for submission to institutional, regional, and national medical conferences. -Drafting of a final manuscript of the major findings of the study, which likely will carry over from the summer into the second academic year.

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

This research project is designed to provide exposure to clinical outcomes research within the field of Urology and Urologic Oncology. The student will engage in critical reading/analysis of published journal articles in the domain of prostate cancer and testicular cancer. The research experience will teach the student how patient clinico-pathologic variables can be assessed with basic statistical methods to derive correlations with multiple clinically relevant study endpoints. The student will gain exposure to these statistical methods as well as work closely the Medical Faculty Associates and GW School of Medicine & Health Sciences biostatisticians. The student will also work very closely with other student members of the Urology Interest Group/Research Collaboration who have done research projects with Dr. Whalen in the past, and therefore serve as an excellent resource for guidance, mentorship, and troubleshooting of research methods. The student will also work closely with a Urology resident mentor to provide clinical context and relevance for the research hypotheses. Further projects using these databases will be possible based on the student's own intellectual curiosity and motivation to develop original ideas/hypotheses for investigation. There will also be opportunity and expectation to contribute to the growing IRB-approved Retrospective and Longitudinal Database of Genitourinary Cancer, as well as the prostate cancer MRI database and bladder cancer "Bluelight cystoscopy database" based on the clinical and surgical experience of the GW Urology physicians. These databases may be queried to answer many clinically relevant and potentially practice-changing questions using data extracted from real patient encounters in the Urology department at GW. Depending on the student's interests, time will be spent performing literature review and drafting the introduction and discussion of the manuscript. The student will also spend time with data entry to input information from the electronic medical record into the database. This work will be supplemented by weekly meetings for troubleshooting and discussion of interesting aspects of prostate cancer diagnosis and treatment. The expectation will be that one or more abstracts are generated to be submitted to our national Urologic Oncology meetings (Society of Urologic Oncology, Genitourinary American Society of Clinical Oncology, American Urological Association). The deadline for the initial submission is late summer 2026. The project will last for the summer, with opportunity to extend participation during the academic year.

Describe the student's role in the project:

The student will take the lead with literature search and drafting the project manuscript with the guidance of the Urology residents and attending supervisor. The student will be responsible for coordination with the biostatistician and assist with interpretation of the statistical results. The goal of the project is for the student not only to learn about outcomes research, but to make a meaningful contribution to the field of Urologic Oncology. There will be opportunity for statistical analysis of the data alongside the professional statisticians as well. The student will work closely with the biostatisticians/senior student mentors to understand the National Cancer Database Participant User File (PUF), including organization, statistical analysis, analysis of outcomes of interest (overall survival, receipt of salvage therapy) and presentation of data in a clear, concise, and meaningful format. There will be ample opportunity for shadowing experiences in the outpatient clinic and the operating room to gain further exposure to clinical Urology. The student will also participate in weekly Urology Grand Rounds and resident didactic sessions to supplement their growing Urologic fund of knowledge.

Describe the mentor's role in the project:

The mentor will provide ample opportunity for discussion of the rationale for the project and the potential ideas for publication arising from the database. The mentor will schedule regular weekly research meetings to assess the student's progress and troubleshoot any questions. The mentor will also invite the student to participate in clinical patient care. One half-day per week will be spent shadowing in the Urology clinic and another day will be spent in the operating room. These mentorship experiences will provide student exposure to the field of Urology and to provide clinical context for the database work. The mentor will also attend regular meetings between the student and the statisticians. The mentor has significant experience in outcomes research as well as basic statistical methods, so is well-equipped to be able to guide the student's interest and success with the project.

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

I have worked with many medical students and Urology residents since 2018. Medical students have been involved with published manuscripts in peer-reviewed journals, as well as authorship of review articles and book chapters. Students have presented at numerous local, regional, and even national research meetings and society conferences. I serve as Research Coordinator for the Urology Department. I was awarded the "Outstanding Clinical Instruction" award ("Teacher of the Year") by the Urology residents in June, 2019. Since I began at GW in 2016, our student-championed research team has developed over 70 abstracts for submission to regional, national, and international conferences; and 40 publications in peer-reviewed journals. Summer 2025: 6 students -Sam Kwon (Gill); Lawrence Henry (Health Services Scholarship); Liza Khutsishvili (HSS); Fiona Wardrop (HSS); Leo Zhao (Fourcroy Research Award); Frank Ryan (Fourcroy Research Award) Summer 2024: 7 students: -Leib Lipowsky (awarded ASCO MSR grant); Jacob Weiss (Gill Fellow); Ryan Matthews (Health Services Scholarship); Stanislav Sobol (Jean L. Fourcroy Research Award); Kris Kokoneshi (Jean L. Fourcroy Research Award); Kurt Rodriguez (METEOR summer research project); Diego Gonzalez (METEOR summer research project) -Summer 2023: 4 students: - Ryan Antar (Health Services Scholarship); Vincent Xu (Gill Fellow)

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.

Yes

IRB Number:

041723

IRB Date:

09/30/2025

Submission Date:

2025-11-17

Faculty Research Proposal

Please enter the details for your research proposal below.

Thank you!

Response was added on 12/08/2025 1:02pm.

1. Faculty Sponsor

Name: Zareen Zaidi Degrees: MD PhD Title: Professor of Medicine Organization: GW SMHS

Address: 2150 Pennsylvania ave City: DC State: Washington DC Zipcode: 20037

Fac Office Phone: (202) 677-6285

Fac Email Address: zzaidi@gwu.edu

2. Daily Supervisor

Name: Zareen Zaidi Degrees: MD PhD Title: Prof Organization: GW SMHS

Address: 2150 Pennsylvania Ave City: DC State: Washington DC Zipcode: 20037

Sup Office Phone: (202) 677-6285

Sup Email Address: zzaidi@gwu.edu

3. Project Information

Project Title

Exploring Academic Freedom in Medicine

Upload up to three faculty publications (within the last three years).

Research Focus (Please select all that apply):

 Medical Education _____

Translational Level: T2: Translation to Patients

Project goals and measurable objectives (e.g. number of patient records, assays completed):

To document faculty perception about academic freedom via interviews

Overall design of the research project, please describe:

- The project time frame and breakdown of activities.
- The project design makes it likely that the objectives will be achieved.
- The project is likely to result in a report of interest to other scholars.
- The project fulfills discovery/original research.

12 - 18 months

Describe the student's role in the project:

Literature search related to academic freedom in medicine. Interview individuals under faculty supervision. help with qualitative data analysis & manuscript writing

Describe the mentor's role in the project:

Overall step-by-step supervision

Describe the current and previous medical student training by your mentor team. Indicate any Gill Fellows or Health Services Scholars:

25 plus

Do you have or will you obtain IRB approval for this project? Please note: Students cannot begin a human subjects project without IRB approval.	<input checked="" type="checkbox"/> No (Pending)
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Submission Date:	2025-12-08
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