

Search Terms: Axon, Brain, Nerve, Neuron. 9/2024

Name	Title	Info	Affiliation	Keywords	Email	Research Interests
Jeffrey Akman, MD	Prof	Info	Psychiatry & Behavioral Sciences: SMHS	Humanism in medicine, health affairs, LGBTQ, HIV/AIDS, Brain	jakman@mf.a.gwu.edu	Depression, Mood Disorders, Anxiety Disorders, Cancer, HIV/AIDS, LGBTQ issues
Mateus Amorim, PhD	Asst Prof	Info	Anesthesiology & Critical Care Medicine: SMHS	understanding the neural control of cardiovascular and respiratory systems, with a special interest in their physiological and pathophysiological mechanisms.	mateus.ramosamorim@gwu.edu	understanding the neural control of cardiovascular and respiratory systems, with a special interest in their physiological and pathophysiological mechanisms.
Kate Applebaum, ScD, MSPH	Assoc Prof	Info	Environmental & Occupational Health: MISPH	Pesticides, Asbestos, Occupational Exposure, Chronic Renal Insufficiency, Chronic Disease, Hispanic Americans, Endotoxins, Brain, Lung Neoplasms,	kapplebaum@gwu.edu	Environmental and occupational exposures influencing the risk of chronic diseases and cancer, including cancer of the lung, head and neck, skin, kidney, and brain. Exposures such as pesticides, heavy metals including arsenic, lead and cadmium, silica dust, asbestos, endotoxin, and metalworking fluids.
William Ashley, MD	Prof	Info	Neurosurgery: Lifebridge	stroke, aneurysm, neuroprotection	washley@lifebridgehealth.org	molecular basis for brain aneurysm rupture, cerebral vasospasm, stroke and novel neuroprotection paradigms.
Shireen Atabaki, MD, MPH	Prof	Info	Pediatrics: CNH	Traumatic brain injury (TBI), Decision support, Electronic health record, CT scans, radiation,	SATABAKI@childrensnational.org	How to reduce unnecessary CT scans and radiation in children with traumatic brain injury.

Mark Baker, MD	Asst Prof	Info	Neurology: SMHS	Stroke, Transient Ischemic Attack (TIA), Cerebral Arteriovenous Malformation, Gastrostomy, and Transmyocardial Revascularization, brain	marbaker@mfa.gwu.edu	Adult Neurology, stroke, brain	
Michael Bamdad, PhD	Prof	Info	Speech, Language & Hearing Sciences: CCAS	Traumatic brain injury (TBI)	mbamdad@gwu.edu	executive functioning deficits and pragmatic disorders post TBI	
Elham Bayat, MD	Assoc Prof	Info	Neurology: SMHS	Amyotrophic Lateral Sclerosis, Diabetic Neuropathies, Motor Neuron Disease, Pain, Biomarkers, Paraproteinemias,	ebayat@mfa.gwu.edu	Proximal Martin-Gruber anastomosis, dietary interventions for chronic diabetic neuropathy pain, Amyotrophic Lateral Sclerosis (ALS), and neurologic complications in plasma cell dyscrasias.	
Michael Bell, MD	Prof	Info	Pediatrics: CNH	Hypothermia, Traumatic Brain Injuries, Critical Care, Emergency Medicine , Neurology	mbell@childrensnational.org	Critical care and neurocritical care, barriers to implementation of traumatic brain injury guidelines, the effect of hypothermia on brain injuries and clinical applications for neurological markers.	
David Belyea, MD	Prof	Info	Ophthalmology: SMHS	Cataract and Glaucoma, Cataract simulation, Nerve fiber layer imaging, Marijuana and Glaucoma therapy ,	dbelyea@mfa.gwu.edu	Research includes glaucoma and herpetic stromal keratitis.	

Jeffrey Berger, MD	Prof	Info	Anesthesiology & Critical Care Medicine: SMHS	Graduate Medical Education, Obstetric Anesthesiology, Practice Management , Anesthesiology , Medical Education, brain	jberger@mf.a.gwu.edu	Regional and obstetric anesthesiology, practice management, and resident education.	
Jennifer Berkeley, MD, PhD	Assoc Prof	Info	Neurology: Lifebridge	neurocritical care, brain injury, Spinal Disorder, Vascular Neurology, neurology	jberkele@lifebridgehealth.org	Neurocritical care, brain injury	
John Bethea, PhD	Prof	Info	Anatomy & Cell Biology: SMHS	Neurology, Spinal Cord Injury, Traumatic Brain Injury, Multiple Sclerosis, Neurodegenerative Diseases, Neurological Diseases, Cognitive Rehabilitation,	jrb117@gwu.edu	Spinal Cord Injury, Astrocytes, Experimental Autoimmune Encephalomyelitis, Neuroinflammation, Traumatic Brain Injury, Neuroimmunology, Multiple Sclerosis, Neurodegeneration, Neurobiology, Glioma, Neuron-Glia Interaction, Cognitive Rehabilitation, Demyelinating Autoimmune Diseases, Neuron Culture, Molecular Neurobiology, Neurogenesis, Nervous System Autoimmune Diseases	

Michael Bukrinsky, MD, PhD	Prof	Info	Microbiology, Immunology, & Tropical Medicine: SMHS	Gene Products, vpr, Poliovirus, Neuroaid, Genes, vpr, HIV Infections, Cholesterol, Enterovirus C, Inflammation, Human Immunodeficiency Virus Proteins, Cancer Immunology & Immunotherapy, Infectious Diseases , Neurology, brain	mbukrins@wu.edu	The interactions between HIV and cholesterol, including the effects of HIV protein Nef on cholesterol homeostasis and the mechanisms behind the effects of genes regulating cholesterol metabolism on HIV replication, latency and pathogenesis. HIV associated neurocognitive disease.
Dorothy Bulas, MD	Prof	Info	Radiology: CNH	prenatal sonographic, MRI, congenital anomalies, Transcranial Doppler (TCD), neonatal and pediatric cerebrovascular injury, blunt abdominal trauma, fetal brain development, pediatric MRI, neuroimaging	DBULAS@childrengeneration.org	Prenatal sonographic and MRI evaluation of congenital anomalies, Transcranial Doppler evaluation of neonatal and pediatric cerebrovascular injury, and blunt abdominal trauma.
Ljubica Caldovic, PhD	Prof	Info	Genomics & Precision Medicine: CNH	Urea cycle, nitrogen metabolism, functional genomics, drug screening, gene regulation, animal models of hyperammonemia, Biochemistry , Genomics	LCaldovic@childrengeneration.org	Regulation of the urea cycle and ammonia toxicity to the brain. Approaches include transcriptional and proteomic profiling to examine global changes in the liver and brain related to ammonia load, bioinformatics and functional genomics approaches to evaluate pathogenicity of non-coding sequence variants, and phenotypic screens for drugs that protect CNS from ammonia toxicity.

Wei-Liang Chen, MD	Asst Prof	Info	Neurology: CNH	epilepsy, neurogenetic diseases, neurometabolic disorders and functional neuroimaging.	wchen@cnm.c.org	Child neurology and genetics with focus on epilepsy, infantile spasm, brain malformation and other neurodevelopmental disorders.
Yan Cheng, PhD	Asst Prof	Info	Clinical Research & Leadership: SMHS	health equity, health function, Traumatic brain injury, Mental illness, Osteoporosis, HIV, Outcomes research, Epidemiology,	yan_cheng@gwu.edu	Pharmacoepidemiology, health outcome research, and medical informatics; addressing health and health care disparities among VA populations.
Anne Chiaramello, PhD	Prof	Info	Anatomy & Cell Biology: SMHS	Pediatric Mitochondrial Neurodegenerative Diseases, Epigenetic Drug Development for Rare Mitochondrial Disorders, Neurotherapeutics, Mitochondrial Medicine , Neurology	achiaram@gwu.edu	Research studying mitochondrial homeostasis in differentiating neurons, translational research on rare and inherited mitochondrial diseases, and small molecule and epigenetic-based therapeutic approaches.
Kevin Cleary, PhD	Prof	Info	Pediatrics: CNH	Robotics, Arthrography, Rehabilitation Robotics, Brain	KCleary@childrehabnation.org	Rehabilitation robotics, medical robotics, medical device development, minimally invasive interventions, and image-guided navigation.
Matthew Colonesi, PhD	Prof	Info	Pharmacology & Physiology: SMHS	Neuroscience, Visual system, Fetal brain development, Electrophysiology, Neurodevelopmental Disorders , Neurology , Pharmacology & Physiology	colonnese@gwu.edu	Developmental Origin of Brain States Supporting Consciousness The Neonatal Rodent as a Model of Fetal Human Brain Development Neural Circuit Function in the Diseased Fetal, Infant and Juvenile Brain

Joshua Corbin, PhD	Prof	Info	Pediatrics: CNH	Autism Spectrum Disorder, Optogenetics, Limbic System, Smell, Neurodevelopmental Disorders, Telencephalon, Neurogenesis, Brain	JCorbin@childrensnational.org	How genetic embryonic neurodevelopmental programs pattern development of circuitry of the limbic system, neurodevelopmental disorders such as autism spectrum disorders.
Deepika Darbari, MD	Prof	Info	Pediatrics: CNH	sickle cell, brain connectivity, central mechanisms, pain,	DDarbari@childrensnational.org	Complications of sickle cell disease with emphasis on pain.
Ashley Darcy-Mahoney, PhD, NNP, FAAN	Assoc Prof	Info	Nursing: School of Nursing	at-risk and preterm infants, infant research, developmental outcomes, early brain and development trajectories, language interventions, literacy, cognitive development,	adarcymahoney@gwu.edu	Infant health and developmental outcomes in high-risk infants with a focus on understanding the early brain and development trajectories in this population.
Leslie Davidson, PhD, MEd	Assoc Prof	Info	Clinical Research & Leadership: SMHS	medical education, health function, Combat-related traumatic brain injury, Concussion, Advances in online pedagogy, Activity engagement, Cognition, Family wellbeing,	ldavidson@gwu.edu	Development and testing of cognitive outcome assessments; dual task and multitask assessments to help inform return to duty with servicemembers who have sustained concussion; qualitative and mixed methods approaches for assessment; participating in large multi-center studies and analysis of concussion assessment data.
Terry Dean, MD, PhD	Asst Prof	Info	Pediatrics: CNH	Neuroscience, traumatic brain injuries, the role of circadian rhythms in brain injury and recovery, sleep	tdean@childrensnational.org	Traumatic brain injuries, circadian rhythms, sleep

Daniel Donoho, MD	Asst Prof	Info	Pediatrics: CNH	brain tumors, Chiari Malformations, Hydrocephalus, Spina Bifida, Neurology , Endocrinology	ddonoho@childrensnational.org	Pediatric Neurosurgery. Developing methods to use computer vision and machine learning for surgical training and innovations.
Maritza Dowling, PhD	Asst Prof	Info	Nursing: School of Nursing	longitudinal assessment, cognitive decline, digital technologies, statistical approaches, Alzheimer's disease, cognitive outcome measures, hormone therapy, TBI, elderly,	nmdowling@gwu.edu	Longitudinal assessment of cognitive decline in older adults and the application of novel statistical approaches to model the complex interplay between risk and protective factors in Alzheimer's disease-related brain changes and biomarkers for disease prognosis; optimize cognitive outcome measures for early diagnosis and patient selection in clinical studies of Alzheimer's disease-modifying therapies.
Adre du Plessis, MB, ChB	Prof	Info	Pediatrics: CNH	brain development, brain injury, prenatal neurology, fetal imaging,	ADupless@childrensnational.org	nervous system of the fetus and newborn, the hazards and mechanisms of injury, and the potential prevention of insult to the brain.
Jordan Estroff, MD, FACS	Assoc Prof	Info	Surgery: SMHS	Mild Traumatic Brain Injury, Gunshot Wounding Patterns, Long term outcomes of Mild Neuroaxial injury in the Geriatric Population, Insulin-like Growth Factor modulation in severely injured trauma patients,	jestroff@med.a.gwu.edu	Mass shootings and gun violence from the perspectives of incidence of potentially preventable death, variation in palliative care, and wounding patterns

Arash Foroughi, MD	Asst Prof	Info	Neurology: Lifebridge	Epilepsy, seizure	afarough@lifebridgehealth.org	Epilepsy, seizure, brain	
Leigh Frame, PhD, MHS	Assoc Prof	Info	Clinical Research & Leadership: SMHS	health function, Nutrition and diet, Immunology, Inflammation, Microbiome, Metabolic Disease, Obesity, Weight Loss, Bariatric Surgery, Dietary Supplements, Public Health, Integrative Medicine, Cancer control, health equity, brain	leighframe@gwu.edu	Nutrition and immunity translational research perspective; the role of the microbiome and nutrition in promoting health, and the consequences of malnutrition in obesity; the role of vitamin D as an immune modulatory hormone particularly in skin, the primary site of vitamin D production and activation.	
Sarah Frasure, PhD	Assoc Prof	Info	Emergency Medicine: SMHS	Emergency Ultrasound	sfrasure@meda.gwu.edu	Ultrasound for small bowel obstruction, appendicitis, diverticulitis, volvulus, ultrasound education, ultrasound-guided procedures (nerve blocks, lumbar puncture etc)	
William Gaillard, MD	Prof	Info	Neurology: CNH	Epilepsy, Imaging, Neurology, Pediatrics	wgaillard@childrengeneration.org	The effects of childhood epilepsy on brain structure and function.	
Lindsay Garmirian, DPT, PhD	Asst Prof	Info	Health, Human Function, & Rehabilitation Sciences: SMHS	Physical Therapy, Rehabilitation, Movement	lgarmirian@gwu.edu	Physical Therapy, Rehabilitation, Movement	

Pritha Ghosh, MD	Assoc Prof	Info	Neurology: SMHS	Movement Disorders, Parkinson's disease, Medical Student education, Dystonia, Tremor , Medical Education , Neurology	pghosh@mf.a.gwu.edu	Clinical interest in Parkinson's disease, deep brain stimulation (DBS), tremor and other movement disorders.	
Gerard Gioia, PhD	Prof	Info	Pediatrics: CNH	Concussion, Mild traumatic brain injury, Executive function,	ggioia@childrensnational.org	Pediatric mild TBI with a focus on the development of methods/tools for the evaluation of the executive functions and post-concussion neuropsychological functioning.	
Lynn Goldman, MD, MPH	Prof	Info	Environmental & Occupational Health: MISPH	Pesticides, Policy, Public Health Preparedness, tobacco, cancer control & health equity, Cancer, Patient-Centered Research, Brain	goldman@gwu.edu	She studies public health issues such as cancer and tobacco use and has engaged in translating research to policy.	
Adrian Goldszmidt, MD	Asst Prof	Info	Neurology: Lifebridge	stroke,	agoldszmidt@lifebridgehealth.org	stroke, brain	
Karen Goodman, DPT	Asst Prof	Info	Health, Human Function, & Rehabilitation Sciences: SMHS	health function, medical education,	karengoodman@gwu.edu	Management of vestibular dysfunction, in particular looking at optimizing exercise prescription for visual vertigo and VOR dysfunction; research to improvement measurement of function in real-world environments; research teams studying innovation in health sciences education.	
Aiste Gulla, PhD	Asst Prof	Info	Surgery: SMHS	Medical Education, Clinical and Translational Research, Surgery	a.kielaitegulla@gwu.edu	Hepato-pancreato-biliary (HPB) transplantation and surgery, clinician researcher development	

Ling Hao, PhD	Asst Prof	Info	Biomedical Engineering: SEAS	cell biology, mass spectrometry, disease mechanisms, brain	linghao@gwu.edu	Developing novel and improved bioanalytical methods using LC-MS platforms and applying the combination of analytical chemistry, bioinformatics, and cell biology approaches to study human diseases.
Dalia Haydar, PharmD, PhD	Asst Prof	Info	Pediatrics: CNH	Neuro-Oncology, Tumor Immunology, CAR T cell therapy, pediatric oncology	DHAYDAR@childrensnational.org	Mechanisms responsible for the lack of CAR T cell efficacy in pediatric brain tumors using cutting-edge technologies and innovative animal models that recapitulate human disease and barriers for adoptive immunotherapies.
Rodrigo Herrera-Molina,	Asst Prof	Info	Pharmacology & Physiology: SMHS	Synapse formation, neuroplasticity	rherreramolina@gwu.edu	Synapse formation, neuroplasticity
Eugene Hwang, MD	Prof	Info	Pediatrics: CNH	Immune Checkpoint Inhibitors, Immunotherapies, Pediatric Brain Tumors, cancer, microbial oncology,	EHwang@childrensnational.org	Pediatric brain tumors.
Adnan Hyder, MD, MPH, PhD	Prof	Info	Global Health: MISPH	global health, health systems, epidemiology, children's health, developing world, non-communicable disease, biomedical ethics, brain	hydera1@gwu.edu	Improve global health in low- and middle- income countries across Africa, Asia, Latin America, and the Middle East; pioneered empirical work around health systems, ethics, and injury prevention in the developing world.

Nobuyuki Ishibashi, MD	Prof	Info	Pediatrics: CNH	White Matter, Brain, Magnetic Resonance Imaging, Heart Defects, Congenital, Developmental Disabilities,	nishibas@childrensnational.org	Brain protection in congenital heart disease.	
Vivek Jain, MD	Assoc Prof	Info	Medicine: SMHS	Sleep Apnea Syndromes, Polysomnography, Hypertension, Neurons,	vjain@mfa.gwu.edu	Effects of oxytocin on sleep apnea.	
Henry Kaminski, MD	Prof	Info	Neurology: SMHS	Myasthenia Gravis, Thymectomy, Immunosuppressive Agents, Biomarkers, neurology, extraocular muscle, brain	hksaminski@mfa.gwu.edu	Biomarkers that may guide future clinical trials in myasthenia gravis; basic biology of extraocular muscle.	
Panagiotis Kassavetis, MD, MSc, PhD	Asst Prof	Info	Neurology: SMHS	movement disorder, dystonia, neuromuscular, neuron, brain, DBS	p.kassavetis@gmail.com	Deep phenotyping of essential tremor, Clinical correlates in Movement Disorders treated with Neuromodulation, Dystonia.	
Matthew Kay, DSc	Prof	Info	Biomedical Engineering: SEAS	Oxytocin, Sarcolemma, Cancer Engineering, Myocardial Ischemia, Membrane Potential, Mitochondrial, Myocardium, Heart Failure, Hypoxia, Neurons, Electrophysiology,	phymwk@gwu.edu	Metabolism and electrophysiology during hypoxia, ischemia, and heart failure; how chronic selective activation of hypothalamic oxytocin neurons improves cardiac function and favorably alters indices of cardiac ischemia and damage that occurs in heart failure.	
Robert Keating, MD	Prof	Info	Neurological Surgery: CNH	brain tumors, TBIs, spina bifida, pediatric neurosurgery,	RKeating@childrensnational.org	Brain tumors, traumatic brain injuries, craniofacial anomalies, chiari malformations, and spinal dysraphism, including spina bifida and tethered cord.	

Stephanie Kielb, PhD	Asst Prof	Info	Psychiatry and Behavioral Health	Neuropsychology, Brain, neuropsychological evaluations, movement disorders, deep brain stimulation	stephanie.kielb@gwu.edu	neurologic illnesses, including multiple sclerosis, epilepsy, and neurodegenerative disease.	
Jonathon Keeney, PhD	Asst Prof	Info	Biochemistry & Molecular Medicine: SMHS	autism, brain expansion, biochemistry, neuroscience, genomics, molecular genetics, Biochemistry , Cancer	keenevig@gwu.edu	Cross disciplinary research at the intersection of neuroscience and genomics.	
Lindsay Kilburn, MD	Assoc Prof	Info	Pediatrics: CNH	cancer, tumor, pediatrics, palliative care, hematology,	LKilburn@childrensnational.org	The development and evaluation of new therapeutic agents for children with pediatric brain tumors through clinical trials; improvement of palliative and supportive care.	
Han Rae Kim, PhD	Asst Prof	Info	Pharmacology & Physiology: SMHS	neural circuits, neurons, neuronal/glia interaction	hrkim@gwu.edu	Cellular and molecular mechanisms within neural circuits that are associated with obesity-related diseases, including cardiovascular disease and non-alcoholic fatty liver disease.	
Uhnok Kim, PhD	Assoc Prof	Info	Pharmacology & Physiology: SMHS	Neuroscience, cortical networks, Parkinson's disease, dendritic morphology, neurotransmitter release, Neurology, Pharmacology & Physiology	uhnokkim@gwu.edu	Cortical networks, mechanisms of action in Parkinson's disease, dendritic morphology, and neurotransmitter release.	
Susan Knobloch, PhD	Prof	Info	Genomics & Precision Medicine: CNH	Spinal Cord Trauma, Traumatic Brain Injury, inflammation, neurodegeneration, CNS repair, Genomics , Pediatrics	sknoblach@childrensnational.org	Inflammatory/immune mechanisms of neurodegeneration and repair after CNS injury and in multiple sclerosis and amyotrophic lateral sclerosis.	

Brandon Kohrt, MD, PhD	Prof	Info	Psychiatry & Behavioral Sciences: SMHS	Torture, Poverty, War-Related Injuries, Disasters, Mental Health, Brain	bkohrt@gwu.edu	Mental health; populations affected by war-related trauma, torture, environmental disasters, and chronic stressor of poverty, discrimination, and lack of access to healthcare.	
Can Korman, PhD	Prof	Info	Electrical & Computer Engineering: SEAS	microelectronics, VLSI, magnetics, numerical modeling, and digital signal processing	korman@gwu.edu	noise in semiconductor devices, micro-electro-mechanical systems (MEMS) and magnetic aftereffect.	
Mohamad Koubeissi, MD	Prof	Info	Neurology: SMHS	Epilepsy, Consciousness, Memory, Clinical Trials, Deep Brain Stimulation ,	mkoubeissi@mfa.gwu.edu	Epilepsy and consciousness.	
Youssef A. Kousa, DO, PhD	Asst Prof	Info	Pediatrics: CNH	Neonatal Neurology, human genetics, genetic engineering, developmental biology, immunology and virology	ykousa@cnmc.org	Brain malformations, Neurovirology	
John Lach, PhD	Prof	Info	Electrical & Computer Engineering: SEAS	Wireless technologies in health, Brain	jlach@gwu.edu	Cyber-physical systems, embedded sensor systems, smart and connected health, body sensor networks, integrated circuit design methodologies, safety-critical system design and analysis, application-specific and general-purpose processor design	

Rong Li, PhD	Prof	Info	Biochemistry & Molecular Medicine: SMHS	Estrogen Receptors, BRCA1 protein, Breast Neoplasms, Stromal Cells, Biochemistry , Cancer, brain	rli69@gwu.edu	Breast cancer treatment and prevention, including how BRCA1 suppresses tumors in gender- and tissue-specific manners, how tumor inhibiting estrogen receptor β can be mobilized, and how adipose stromal cells can promote breast cancer progression.	
Zhenyu Li, PhD	Assoc Prof	Info	Biomedical Engineering: SEAS	Microfluidics, Micro-Electrical-Mechanical Systems, Electronics, Nanotechnology, Biosensing Techniques, Cancer Engineering,	zhenyu@gwu.edu	Innovation of novel biosensors and medical devices using micro and nanotechnology, specifically microfluidics, MEMS, nanophotonics, and flexible electronics; integration of Nanophotonics and Microfluidics for biomedical applications.	
Zhenyu Li,	Assoc Prof	Info	Biomedical Engineering: SEAS	development of novel biosensors and medical devices using micro and nanotechnology, namely microfluidics, MEMS, nanophotonics and flexible electronics.	zhenyu@gwu.edu	Handheld automated blood analyzer using microliter blood samples, a wearable ECG sensor on a finger ring, and soft robotics with embedded medical sensors and actuators for automated healthcare delivery.	
Catherine Limperopoulos, PhD	Prof	Info	Pediatrics: CNH	Brain Injuries, Fetal Diseases, Heart Diseases, Neurology , Pediatrics	climpero@childrensnational.org	Fetal neonatal brain injury.	

Hui Lu, PhD	Assoc Prof	Info	Pharmacology & Physiology: SMHS	Autism Spectrum Disorder, Optogenetics, Methyl-CpG-Binding Protein 2, Brain	huilu@gwu.edu	In vivo Ca ²⁺ imaging techniques, mouse genetics and optogenetics to characterize malfunction of the neural circuit in mouse models of autism spectrum disorders
Ponda Madati, MD	Assoc Prof	Info	Pediatrics: CNH	Brain Concussion, Pediatrics, Gastroenteritis,	pmadati@childreusnation.org	Clinical practice guidelines for treatment of pediatric gastroenteritis.
Sanjay Maggirwar, PhD, MBA	Prof	Info	Microbiology, Immunology, & Tropical Medicine: SMHS	HIV, HIV-1 dementia, aging, inflammatory response, neurocognitive impairment, cardiovascular impairment, cellular proteins, cancer immunology & immunotherapy, Infectious Diseases, brain	smaggirwar@gwu.edu	Inflammatory secondary complications of HIV infection experienced by those living longer with the disease, compared to their aging, uninfected counterparts.
Yamane Makke, MD	Asst Prof	Info	Neurology: SMHS	Epilepsy, Seizures, brain	yamakke@mf.gwu.edu	Medically refractory epilepsy, Autoimmune Epilepsy, Non-epileptic spells, brain
Trudy Mallinson, PhD	Prof	Info	Clinical Research & Leadership: SMHS	health function, Brain injury, Disorders of consciousness, Rehabilitation, Chronic disability, Outcome assessment (Health Care), Health policy, Shared decision-making, Health care quality, Quality performance measures,	trudy@gwu.edu	Health outcome assessments, rehabilitation health services research, and health policy; improving outcome measurement in severe TBI, standardized assessment in rehabilitation, and developing measurement methodology; psychometric analysis of brain injury assessment data.

Paul Marvar, PhD	Assoc Prof	Info	Pharmacology & Physiology: SMHS	Cardiovascular disease, hypertension, inflammation and stress and anxiety disorders, PTSD ,	pmarvar@gwu.edu	Post-traumatic stress disorder as a result of exposure to physical or psychological trauma; how stress and anxiety related disorders contribute to increased cardiovascular disease risk; integrative (i.e., neuroimmune) mechanisms related to the brain neurocircuitry involved in cardiovascular autonomic and fear/stress regulation.	
David Mendelowitz, PhD	Prof	Info	Pharmacology & Physiology: SMHS	Sudden Infant Death, Oxytocin, Optogenetics, Polysomnography, Sleep Apnea Syndromes, Autonomic Nervous System, Hypertension, Brain Stem, Cardiovascular Diseases, Homeostasis, Neurology, Pharmacology & Physiology	dmendel@gwu.edu	Autonomic and respiratory control of cardiovascular function; targets in the autonomic nervous system control of cardiac function; obstructive sleep apnea (OSA) and heart failure; cellular properties, neuronal network and in-vivo reflex control of pre-motor parasympathetic cardio-inhibitory vagal neurons located in the brainstem that generate parasympathetic activity to the heart.	

Robert Miller, PhD	Prof	Info	Anatomy & Cell Biology: SMHS	Neural development, Neurogenesis, Neuroglia, Neurons, Stem Cells, Spinal Cord Injuries, Cell Proliferation, Neoplasms, Anatomy & Pathology, Neurology	rhm3@gwu.edu	Neural development and stem cells, such as understanding cellular and molecular control of nervous system glial specification; myelin repair; the cellular origins of neural tumors; novel therapeutic targets to control cell proliferation, death and migration of neural cells; neural and non-neural stem cell approaches to modulate spinal cord injury responses.
Reza Monfaredi, PhD	Assoc Prof	Info	Pediatrics: CNH	Medical Robotics, brain	RMONFARE@childrensnational.org	MRI-compatible robotics, rehabilitation robotics, and medical devices
Sarah Mulkey, MD, PhD	Assoc Prof	Info	Pediatrics: CNH	newborn brain injury, brain growth, neurologic conditions, hypoxic-ischemic encephalopathy, neurodevelopmental outcomes,	sbmulkey@childrensnational.org	Brain injury in the fetus and newborn, brain growth and development and neurodevelopmental outcomes in newborns at risk for brain injury.
David Nagel, PhD	Prof	Info	Electrical & Computer Engineering: SEAS	nuclear reactions and noise in solar cells.	nagel@gwu.edu	Nuclear reactions and noise in solar cells.
Kayla Nguyen PhD	Asst Prof	Info	Anatomy & Cell Biology: SMHS	Chronic Pain, Brain, Non-opioid therapeutics	kayla.nguyen@gwu.edu	Sex-specific mechanisms of chronic pain in both disease and injury involving the CNS with a focus on neuronal and immune cell populations.

Chima Oluigbo, PhD	Prof	Info	Neurological Surgery: CNH	epilepsy, brain and spine tumors, hydrocephalus, craniosynostosis, spina bifida and tethered spinal cord. He specializes in the surgical care of children with epilepsy as well as pediatric functional and restorative neurosurgery.	chimaoluigbo@childrensnational.org	epilepsy surgery, deep brain stimulation, functional neurological restoration and the development of innovative neuromodulation therapies for the treatment of chronic neurological disorders including epilepsy, movement disorders, neurobehavioral and cognitive disorders, chronic pain and spasticity in children.
Roger Packer, MD	Prof	Info	Pediatrics: CNH	Child, Pediatric, Neurofibromatosis 1, Translational Medical Research, Brain Neoplasms, Hospitals, Military, Neurology , Pediatrics	rpacker@childrensnational.org	Clinical trial development and translational research, clinical/translational neuro-oncology trials, clinical research in pediatric brain tumors and neurofibromatosis type 1.
Ahdeah Pajooheh-Ganji, PhD	Assoc Prof	Info	Anatomy & Cell Biology: SMHS	Multiple sclerosis, Myelination, Optic nerve, Oligodendrocytes, Microglia,	ahdeah@gwu.edu	Pathways and repair mechanisms that play a role in Multiple Sclerosis; demyelination and remyelination in the mouse optic nerve.
Chung Hyuk Park, PhD, MS	Assoc Prof	Info	Biomedical Engineering: SEAS	Robotics, Technology, Computers, Machine Learning	chpark@gwu.edu	Collaborative innovation between human intelligence and robotic technology, using machine learning, computer vision, haptics, and telepresence robotics; current research focuses on multi-modality in human-robot interaction and assistive robotics, and robot learning and humanized intelligence.

Geet Paul, MD	Asst Prof	Info	Anesthesiology & Critical Care Medicine: SMHS	Sports Medicine, Physical Medicine Rehabilitation, Pain Management, Interventional Spine, Brain	gpaul@mfa.gwu.edu	Sports-related injuries, Neck and Back Pain, Hip and Knee Pain, Shoulder Pain, Tendinopathy, Platelet Rich Plasma, Musculoskeletal Ultrasound, Neuromodulation
Monica Pearl, MD	Prof	Info	Radiology: CNH	neurovascular disorders, cerebrovascular pathology, hemimegalencephaly, brain tumors, drug delivery systems,	MSPearl@childrensnational.org	Radiation dose reduction strategies and innovative endovascular therapies for pediatric tumors of the head, neck and spine.
Yanxin Pei, PhD	Assoc Prof	Info	Pediatrics: CNH	Cancer, Medulloblastoma, Tumor stem cells, Cancer , Pediatrics	ypei@childrensnational.org	New ways to target and eliminate tumor cells in children with malignant brain tumors.
Paola Pergami, MD	Assoc Prof	Info	Neurology: CNH	pediatric neurology, pediatric stroke, neuroimaging, brain plasticity, seizures,	PPERGAMI2@childrensnational.org	Seizures in pediatric stroke (SIPS), the role of inflammation in pediatric stroke (VIPS), and addressing safety and efficacy of mechanical clot removal in children with stroke.
Sophie Pestieau, MD	Prof	Info	Pediatrics: CNH	Anterior Cruciate Ligament, Pain Management, Nerve Block, Thigh, Muscular Dystrophies, Peripheral Nerves, Genetic Therapy, Anesthesiology , Pediatrics	spestiea@childrensnational.org	Research includes muscle cell biology; gene therapy and treatment; and muscular dystrophy.

Kenna Peusner, PhD	Prof	Info	Neurology: SMHS	Cell and Tissue Biology, Neurobiology,	peusnerk@gwu.edu	Development of neurons in the CNS and how these processes may be reexpressed in young neurons responding to injury or disease; developing central vestibular system model; potassium currents and excitability in developing neurons, developmental change in synaptic transmission, ionic membrane and synaptic conductances underlying vestibular compensation, glutamate immunoreactivity for NMDA and AMPA receptor subunits during vestibular development
Vsevolod Polotsky, MD	Prof	Info	Anesthesiology & Critical Care Medicine: SMHS	Sleep Apnea, Asthma, Respiratory Physiology, gene-therapy, leptin, Anesthesiology, Brain	vsevolod.polotsky@gwu.edu	Hypoxia; Obesity; Metabolic Syndrome; Obstructive Sleep Apnea
Abigail Polter, PhD	Assoc Prof	Info	Pharmacology & Physiology: SMHS	Dopamine, Serotonin, Neurons, Neurobiology, Neurotransmitter Agents, Neurology, Pharmacology & Physiology	ampolter@gwu.edu	Neurobiological effects of stressful and adverse experiences; mechanisms of stress-induced changes in synapses and circuits; synaptic regulation of neurons that produce monoamines-neurotransmitters such as dopamine and serotonin that are important modulators of affective and reward-related behavior.

Anastas Popratiloff, MD, PhD	Adj Prof	Info	Anatomy & Cell Biology: SMHS	Neurons, neuronal structure, neuronal networks, neurological conditions, sensory deprivation, homeostatic regulation,	anastas@gwu.edu	Neuronal structure, neuronal networks, and models of major neurological conditions.
Melinda Power, ScD	Asst Prof	Info	Epidemiology & Biostatistics: MISPH	Cognitive Dysfunction, Risk Factors, Blood Pressure, Environmental Pollutants, Cognition Disorders, Alzheimer Disease, Neuroimaging, Autism, Aging, Health Disparities, Epidemiologic Methods, Biostatistics, health disparity,	power@gwu.edu	Modifiable risk factors for cognitive decline, cognitive impairment, dementia, and dementia-related brain changes assessed via neuroimaging in older adults; environmental pollutants or toxins contribute to accelerated cognitive deterioration in older adults, lifecourse vascular risk factors and cognitive health, the relative contribution of multiple brain pathologies to cognitive status, and race/ethnic disparities in the incidence and diagnosis of dementia.
Christina Prather, MD	Assoc Prof	Info	Medicine: SMHS	Geriatric Medicine, Graduate Medical Education, Acute Geriatric Care, Undergraduate Medical Education, Geriatric Trauma and Surgical Care, Geriatrics, Medical Education, brain	cprather@medfa.gwu.edu	Medical education, palliative care among severely injured patients, and hearing loss from fall-related injuries.
Antonio Puente, PhD	Asst Prof	Info	Psychiatry & Behavioral Sciences: SMHS	Clinical Neuropsychology, Neuropsychological Assessment, Dementia, Epilepsy, Brain	apuente@medfa.gwu.edu	Neural basis of cognition and refinement of neuropsychological methods for improved accuracy in the prediction of behavior.

Xiaodong Qu, PhD	Asst Prof	Info	Computer Science: SEAS	Machine Learning, Brain-Computer Interfaces, ensemble methods, time-series data, LSTM and Transformer models	x.gu@email.gwu.edu	Non-invasive brain signals for both clinical and non-clinical applications. Ensemble methods and specialized approaches for time-series data	
Brian Rood, MD	Prof	Info	Pediatrics: CNH	Pediatric brain tumors, cancer,	brood@childrensnational.org	Proteome of medulloblastoma, a pediatric brain tumor, in order to identify therapeutic targets; biomarkers to identify brain tumors and microsatellite markers in DNA that predict the risk of developing brain tumors.	
Jeremy Root, MD	Assoc Prof	Info	Pediatrics: CNH	Brain Concussion, Cognition, transport medicine,	jroot@childrensnational.org	Cognitive rest and prolonged concussion symptoms; transport medicine.	
Michael Rosner, PhD	Prof	Info	Neurological Surgery: SMHS	Complex Spine Disorders such as Scoliosis and Kyphoscoliosis, Degenerative Spinal Pathology, Revision spine surgery and deformity correction, Spinal oncology, Minimally-invasive spine surgery and neuro-trauma, brain	mrosner@mfa.gwu.edu	Spinal column disorders and neuro-trauma; complex spine disorders such as scoliosis and kyphoscoliosis, degenerative spinal pathology, revision spine surgery and deformity correction, spinal oncology, minimally invasive spine surgery and neuro-trauma.	
Ted Rothstein, PhD	Prof	Info	Neurology: SMHS	Multiple Sclerosis, General Neurology, Deep Brain Stimulation, Movement Disorders, Dementia	trothstein@mfa.gwu.edu	Multiple sclerosis, general neurology issues, deep brain stimulation, movement disorders, dementia, brain anatomic changes and long covid.	

Ayman Saleh, MD	Asst Prof	Info	Pediatrics: CNH	pediatrics, psychiatry, developmental neuropsychopathology, brain development,	salehayman@gmail.com	Developmental neuropsychopathology and the impact of early adverse life experiences on brain development related to risk and resilience factors.
Carlos Sanchez, MD	Asst Prof	Info	Pediatrics: CNH	cancer, immunology, brain tumors, pediatrics,	csanchez@mf.gwu.edu	Cellular engineering of CAR NK cells for brain tumor immunotherapy
Leigh Sepeta, PhD	Asst Prof	Info	Psychiatry & Behavioral Sciences: CNH	Neuropsychology, Memory, Temporal Lobe Epilepsy, Psychiatry, Brain	lsepeta@chidrensnation.org	Memory development and its neural basis in order to determine how temporal lobe epilepsy affects memory.
Edward Seto, PhD	Prof	Info	Biochemistry & Molecular Medicine: SMHS	Cancer, Chromatin, Histone Deacetylase Inhibitors, Lymphoma, Mantle-Cell, Histone Deacetylases, Transcription, Genetic, Biochemistry , Cancer	seto@gwu.edu	Histone deacetylases (HDACs), an enzyme that catalyze the removal of acetyl groups from the lysine residues of histones. These enzymes play a pivotal role in the regulation of gene transcription and are indispensable in numerous eukaryotic biological processes involving chromatin.
Chet Sherwood , PhD	Prof	Info	Anthropology: CCAS	evolution of primate brain, primatology, human cognition, evolutionary neuroscience, behavior,	sherwood@gwu.edu	Research in evolutionary neuroscience to understand how brain differ among species, how this variation is correlated with behavior, how it is constrained by the rules of biological form, and how it is encoded in the genome.

Maho Shibata, PhD	Asst Prof	Info	Anatomy & Cell Biology: SMHS	prostate cancer, androgen, organogenesis, organoid, Wnt signaling, stem cells, Cancer , Pharmacology & Physiology, brain	mshibata@gwu.edu	Castration resistant prostate cancer, prostate organogenesis, prostate stem cells, 3D organoid culture
Michael Sidorov, PhD	Asst Prof	Info	Pediatrics: CNH	Neurodevelopmental disorders, Quantitative EEG biomarkers, Sensory processing, autism, Neural circuits, brain	msidorov@gwu.edu	Neural circuits and behavior in mouse models of neurodevelopmental disorders.
Dimitri Sigounas, MD	Assoc Prof	Info	Neurological Surgery: SMHS	Neurological Surgery, Cerebrovascular Disorders, aneurysms, brain tumors,	dsigounas@mfa.gwu.edu	Minimally invasive neurosurgery; treatment of aneurysms, dural arteriovenous fistulae, and brain tumors using the most innovative, least invasive approaches.
Ameet Singh, MD	Prof	Info	Surgery: SMHS	Chronic sinusitis, Endoscopic Sinus Surgery, Endoscopic Skull Base Surgery, Drug Eluting Therapy for Chronic Sinusitis, Balloon Eustachian Tuboplasty ,	asingh@mfa.gwu.edu	Minimally invasive endoscopic sinus and skull base surgery for chronic sinusitis, sinonasal tumors, and anterior skull base brain tumors.
Mary Ann Stepp, PhD	Prof	Info	Anatomy & Cell Biology: SMHS	Integrins, Cornea, Extracellular Matrix, Wound Healing, Epithelial Cells, Sensory Nerves, Innervation, Aging,	mastepp@gwu.edu	Epithelial tissue function and support of the corneal sensory nerves; how epithelial cells adhere to their extracellular matrix and sensory nerves via proteins called integrins and how those interactions change during wound healing.

Sameera Talegawkar, PhD	Assoc Prof	Info	Exercise & Nutrition Sciences: MISPH	Cardiovascular Diseases, Epidemiologists, Risk Factors, Life Style, Diet, Chronic Disease, Disabled Persons, Cognition, brain	stalega1@gwu.edu	Nutritional epidemiology; the role of diet and other lifestyle factors on chronic disease risk in minority populations, and on age-related functional declines in older individuals; cardiovascular health with age-related declines in physical and cognitive function, and the study of dietary trajectories over the adult life course and their associations with physical function, disability, and mortality.	
Malathi Thothathiri, PhD	Assoc Prof	Info	Speech, Language & Hearing Sciences: CCAS	Language, Cognition, brain	malathi@gwu.edu	Neural basis of language and other higher level cognitive functions; the role of language experience in shaping language use, the neural basis of sentence production and language processing, and the interaction between language and cognitive control.	

Masaaki Torii, PhD	Asso c Prof	Info	Pediatrics: CNH	Corpus Callosum, Autistic Disorder, Time-Lapse Imaging, Cerebral Cortex, Neurons, Electroporation, Tuberous Sclerosis,	mtorii@childrensnational.org	Molecular and cellular mechanisms underlying the development of fundamental neural circuits responsible for diverse brain functions and dysfunctions; how various neuronal subtypes in the cerebral cortex are assembled into functional cortical columns during development, how these neurons establish specific neuronal connections, and how these processes are disrupted in neurodevelopmental disorders such as autism.
Jason Triplett, PhD	Asso c Prof	Info	Pediatrics: CNH	Brain, Neurons, Electrophysiological Phenomena, Sensation, Electrophysiology, Neurology	jtriplett@childrensnational.org	Developmental mechanisms by which sensory information is brought together in the brain; topographic maps in which neighboring neurons monitor adjacent regions of space. In associative centers, these maps must be brought into register in order to integrate sensory information.

Robert Turner, II, PhD	Assoc Prof	Info	Clinical Research & Leadership: SMHS	health equity, Sports Medicine, Concussion, Brain Injury, Healthcare Disparities, African American health, Medical Sociology, Alzheimer's and related diseases, Men's health, Social and behavioral determinants of health,	rwtturner124@gwu.edu	Ethnographic and mixed methods research. His research examines psychosocial and neurocognitive risk and protective factors, accelerated cognitive aging, and mild traumatic brain injury among former NCAA Division I and former NFL athletes.
Alexandros Tzatsos, MD, PhD	Assoc Prof	Info	Anatomy & Cell Biology: SMHS	Cancer, Epigenesis, Genetic, Hematopoietic Stem Cells, Signal Transduction, Pancreatic Neoplasms,	atzatsos@gwu.edu	Epigenetic progression model of pancreatic cancer, epigenetic regulation of hematopoietic stem cells, cross-talk of signaling pathways and the epigenetic machinery, and gene discovery.
Xin Wang, PhD	Assoc Prof	Info	Pharmacology & Physiology: SMHS	neural circuitry network, autonomic cardio-respiratory regulation, anesthesiology, developmental biology, Optogenetics and chemogenetics,	xinwang@gwu.edu	Anesthetic and analgesic modulation of central cardio-respiratory autonomic regulation and the cellular and molecular mechanisms by which anesthetics produce their effects in the brainstem.
Alison Warren, DAOM	Adj Asst Prof	Info	Clinical Research & Leadership: SMHS	Integrative Medicine	aliwarren@gwu.edu	Integrative Medicine

Jennifer Weaver, PhD	Adj	Info	Clinical Research & Leadership: SMHS	medical education, rehabilitation, decision making, patient centered outcomes, outcome measurement, health services,	jenweaver524@gwu.edu	Shared decision making between rehabilitation practitioners, the client, and family care partners, traumatic brain injury rehabilitation, outcome measurement (special interest in using Rasch Analysis and Implementation Science), and health services research.
Hua Xie, PhD	Asst Prof	Info	Neurology: CNH	Computational Neurology, Brain	hua.xie@email.gwu.edu	computational modeling of fMRI, resting-state and task-evoked functional connectivity dynamics
Elizabeth Wells, PhD	Prof	Info	Pediatrics: CNH	Brain Tumor, neuro-oncology, pediatrics, neuro-inflammatory disorders	ewells@childrensnational.org	Brain Tumor, neuro-oncology, pediatrics, neuro-inflammatory disorders
Colin Young, PhD	Assoc Prof	Info	Pharmacology & Physiology: SMHS	Reactive Oxygen Species, Endoplasmic Reticulum Stress, Hypertension, Obesity, Cardiovascular System, Neurosciences, Transcription Factors, Nervous System,	colinyoung@gwu.edu	Central nervous system mechanisms that contribute to the development of cardiovascular (e.g., hypertension) and metabolic (e.g., obesity) disorders, with an emphasis on endoplasmic reticulum stress, alterations in reactive oxygen species, and transcription factor activation.
Omar Zalatimo, MD	Prof	Info	Neurosurgery: Lifebridge	socioeconomic, academic practice, outcomes	ozalatim@lifebridgehealth.org	Brain tumors, brain hemorrhages, Chiari malformations, epilepsy, pain, trigeminal neuralgia, spinal stimulation, peripheral nerve disorders and deep brain stimulation.

Vesna Zderic, PhD	Prof	Info	Biomedical Engineering: SEAS	modeling, ultrasound therapy, tumors, pancreatic beta cells, cancer engineering, brain	zderic@gwu.edu	Application of ultrasound to enhance ocular drug delivery, focused ultrasound treatment of tumors, studies of safety of therapeutic ultrasound applications, and ultrasound application for functional modification of cells such as pancreatic beta cells.
Qing Zeng, PhD	Prof	Info	Clinical Research & Leadership: SMHS	health function, Complementary and integrative health, Consumer health informatics, brain	zengq@gwu.edu	Data mining, natural language processing, and consumer health informatics; leverage information for healthcare research and delivery. collaboration to develop interoperability standards for the broader clinical NLP community and have been developing a clinical NLP ecosystem.
Xiaoyan Zheng, PhD	Assoc Prof	Info	Anatomy & Cell Biology: SMHS	Cancer, Child, Medulloblastoma, Indicators and Reagents, Genetic Background, Genotype, Antibodies, Signal Transduction, Brain Neoplasms, Cell Communication, Mutation, Anatomy & Pathology, Cancer, lung	xzheng@gwu.edu	Target genes regulated by the Hh signal; molecular mechanisms employed by the Hh signaling pathway in regulating cell-cell interactions; trafficking of Hh receptors (II).