

Department of Neurology



# The Future of Neurosciences

Neurology Fellowship Programs



## Message from the Chairman

Dear fellowship candidate:

It is a pleasure to provide information about various fellowship programs in the Department of Neurology at Thomas Jefferson University and Hospital.

Neurology at Jefferson has a long tradition of excellence in clinical training and care. Additionally, we are committed to providing an active and exciting research program in neurological diseases.

The faculty in the Department are engaged in cutting edge research basic understanding of disease etiology and pathogenesis as well as translational research to apply the findings in the laboratory to the bedside. Clinical trials of new treatments for neurological diseases are ongoing in all divisions of the department. Consolidation and coordination of our Department and research base at the new Jefferson Hospital for Neuroscience has further strengthened our capacity for excellence in patient care, education and research.

We provide clinical, research or combined fellowships in many areas of neurology and neurosciences. The fellowship program can be tailored to the fellows' specific requirements.

The entire neurology faculty joins me in expressing appreciation for your interest in our programs. Feel free to contact us with any specific questions.

Sincerely,

A. M. Rostami, MD, PhD

## Jefferson FACTS

Thomas Jefferson University and Hospitals is an academic medical center whose mission is to educate the health professionals of tomorrow in a variety of disciplines; discover new treatments and therapies that will define the future of clinical care and provide exceptional primary through complex quaternary care to patients in the communities we serve throughout the Delaware Valley.

Founded in 1824 as Jefferson Medical College (JMC), and now known as the Sidney Kimmel Medical College at Thomas Jefferson University, our University also includes the Jefferson Colleges of Biomedical Sciences, Health Professions, Nursing, Pharmacy and Population Health. The University enrolls more than 3,700 future physicians, scientists and healthcare professionals.

Following our merger with Abington Health, the newly formed Jefferson organization encompasses Thomas Jefferson University and Jefferson Health, our new, combined clinical entity. Jefferson now includes 19,000 employees, nearly 3,400 physicians and approximately 2,500 full-time nurses

Jefferson Health includes five hospitals, 14 outpatient and urgent care centers, as well as physician practices everywhere we deliver care – throughout the city and suburbs across Philadelphia, Montgomery and Bucks counties in Pennsylvania, and Camden County in New Jersey. Thomas Jefferson University Hospital is a Magnet®-designated hospital recognized for nursing excellence. Jefferson Hospital for Neuroscience (JHN) is the only hospital in the region dedicated entirely to neurology and neurosurgery. It is the Philadelphia area's preeminent center for the diagnosis and treatment of stroke and cerebrovascular diseases, brain tumors, epilepsy, movement disorders, neuromuscular diseases, headaches, Alzheimer's disease and spine and spinal cord injuries. JHN is actively shaping the future of neurosurgery and neurology through groundbreaking clinical research.

Abington Hospital, also Magnet®-designated, is the largest community teaching hospital in Montgomery and Bucks counties. Other Jefferson hospitals include Methodist Hospital in South Philadelphia and Abington-Lansdale Hospital in Hatfield Township.

Thomas Jefferson University Hospitals continues its record of excellence in health care with consistent recognition from *U.S. News & World Report's* annual listing of top hospitals and specialties. Jefferson ranks in the top 10 facilities in the Philadelphia metro area (2nd) and Pennsylvania (4th). In 2015-16 *U.S. News & World Report* ranked us among the nation's best hospitals for Neurology and Neurosurgery as well as several other disciplines.

# FELLOWSHIP Opportunities



Fellowships	Cerebrovascular	Neuro Critical Care	Clinical Neurophysiology	Epilepsy	EMG and Neuromuscular	Headache	Multiple Sclerosis	Multiple Sclerosis with emphasis on basic research	Neuro-ophthalmology	Sleep
Duration	1 year	2 years	1 year	2 years	1 year	1 - 2 years	2 years	2 - 3 years	1 year	1 year
Number of Positions Available	4	2	3		1	3	1 - 2	1 - 2	1	1
Program Director	Carissa Pineda, MD	Rodney Bell, MD	Maromi Nei, MD		Goran Rakocevic, MD	Stephanie J. Nahas, MD, MSEd	Thomas Leist, MD, PhD	A.M. Rostami, MD, PhD	Robert Sergott, MD	Karl Doghramji, MD
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# FELLOWSHIP Programs

## Cerebrovascular Disease and Neurocritical Care

Jefferson is a major referral center for stroke and critically ill neurology and neurosurgery patients for the tri-state area. The Jefferson University System houses a total of 40 NICU and intermediate NICU beds, in addition to a 15-bed Acute Stroke Unit.

Our program has one of the largest Neurocritical Care Units in the country. Jefferson neurosurgery and endovascular neuroradiology program treats the highest volume of patients with aneurysms, brain AVMs, angioplasty, stenting occlusive carotids and intracranial disease in the nation. In this environment, stroke and NICU fellows will learn to become leaders in the academic field of stroke and neurocritical care. Fellowship can be tailored to meet each fellow's goals and interests. There are two tracts: one-year stroke training and two-year neurocritical care training. Stroke fellows will learn inpatient and outpatient management of cerebrovascular disease. NICU fellows will supervise neurology residents and lead the team for daily patient care. Advanced training content in neurological critical care is based on the guidelines by the Society of Critical Care Medicine. Ample opportunities are available for clinical research study with large volume of patient data. There are 11 stroke and neurocritical care physicians in the division.

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## Clinical Neurophysiology

This is an ACGME approved one-to-two year fellowship designed to provide well-rounded training for individuals interested either in clinical practice or an academic career. Training is provided in EEG, EMG, evoked potentials, video-EEG monitoring, and sleep along with an outpatient neurology experience. Clinical experience is supplemented by a didactic lecture series. Fellows have an opportunity to participate in clinical research.

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## Neuromuscular Disease and Electromyography

The Neuromuscular/EMG fellowship at TJUH offers a one year ACGME-approved Neuromuscular Medicine fellowship with emphasis on diagnosing and treating a broad spectrum of neuromuscular disorders and acquiring knowledge and skills in performing and interpreting nerve conduction studies and electromyography (EMG). In addition to obtaining training in routine nerve conduction studies and EMG, the fellows are also trained in performing specialized electrophysiological studies such as quantitative motor unit analysis and Single Fiber EMG. The Neuromuscular Division provides outpatient and inpatient clinical evaluations and management of patients with diverse and challenging neuromuscular diseases such as ALS and myasthenia gravis, usually in conjunction with their electrophysiological studies. Special emphasis is placed on developing expertise in electromyography and nerve conduction studies, and reviewing nerve and muscle biopsies in selected cases. The fellows become highly trained in the diagnosis and treatment of peripheral neuropathies, myopathies, neuro-muscular junction disorders, and motor neuron diseases. In addition to structured fellows' curriculum that encompasses the science and knowledge of the pathology, diagnosis, and treatment of these disorders at the level that is significantly beyond that expected of a general neurologist and physiatrist, neuromuscular fellows are expected to teach residents and medical students and present lectures during neuromuscular teaching rounds. Inter-disciplinary neuromuscular conferences are held weekly with participation of colleagues from Neurophysiology, Neurosurgery, Neuropathology and Rehabilitation Medicine.

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## Epilepsy

This is an ACGME-approved epilepsy fellowship program at an internationally renowned epilepsy center. Trainees in this fellowship complete one year of epilepsy training under the ACGME Epilepsy Fellowship Program and one year of clinical neurophysiology training under Jefferson's ACGME Clinical Neurophysiology Fellowship Program, for a combined total of two years fellowship training.

The fellowship offers training in diagnosis, medical management, and surgical treatment of epilepsy, along with instruction in EEG, video-EEG monitoring, use of intracranial electrodes, intraoperative monitoring, brain mapping, and evoked potentials. In the first year, education is well rounded in other areas of clinical neurophysiology so that fellows are eligible for the clinical neurophysiology boards. There is a strong emphasis on clinical research and teaching from a multidisciplinary faculty. This fellowship is designed for individuals who wish to pursue academic careers.

The epilepsy center is a multidisciplinary quaternary care center for diagnosis and treatment of people with epilepsy. The center has a national referral base. Center faculty includes four neurologists, two neuro-psychologists, two neurosurgeons, and one radiologist. The center offers basic and advanced diagnostic testing and a full array of conventional and investigational medical and surgical treatments. The surgical program is among the largest in the U.S., performing 80-90 operations yearly.

In addition to its outpatient facilities, the epilepsy center maintains an inpatient video-EEG monitoring unit consisting of eight beds, each in a specially outfitted private room, where approximately 400 patients are admitted yearly. Patients are evaluated for diagnostic reasons, presurgical assessments, intracranial EEG recording, and management of uncontrolled seizures.

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## Headache

The Jefferson Headache Center Fellowship program is a UCNS accredited fellowship at an internationally recognized headache center. It is dedicated to giving the trainee the highest quality preparation so that he or she can make contributions to patient care and advance the level of knowledge of headache medicine. The program will prepare the Fellow for a career in clinical headache practice or academic headache medicine. The Fellow will be exposed to outpatient and inpatient headache patient care, as well as clinical headache research involving epidemiology, neurophysiology, and therapeutic studies. In addition, a pediatric headache rotation is part of the program. Headache medicine is a unique subspecialty of neurology that requires knowledge not previously taught to trainees during their respective residency programs.

The Fellowship program consists of 12 months of training. The trainee will spend most of his or her time in the outpatient and inpatient headache units, but will have ample time to participate in research projects of their choosing. The trainee will see patients 4 days/week, with 2 half days/week devoted to research.

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## Multiple Sclerosis

The Comprehensive Multiple Sclerosis Center utilizes an integrated approach to diagnosis and treatment of Multiple Sclerosis and other neuroimmunological disorders. It serves as a tertiary referral and teaching center and is allied with a multispecialty team of practitioners. It has special programs for clinically isolated syndromes, transverse myelitis, and spasticity management. Fellows have an opportunity to participate in ongoing clinical and ex vivo research into the immunology of neurological disorders, new treatment and diagnostic approaches, novel imaging modalities, and outcome and genetic studies in MS.



The Laboratory of Neuroimmunology offers qualified candidates further opportunities in basic and translational research in Multiple Sclerosis.

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## Neuro-ophthalmology

Neuro-ophthalmologic care is provided by Wills Eye Hospital, one of the top three ophthalmology centers in the United States by *U.S. News & World Report* for the last 17 consecutive years. The Neuro-Ophthalmology Service provides a one-year fellowship for one fellow in one of the busiest neuro-ophthalmology practices in the country, working with approximately 5,000 patient visits annually. The surgical experience includes temporal artery biopsies, a variety of strabismus procedures, and optic nerve sheath decompression. The fellow is expected to be involved in a series of research projects resulting in publication. Resident and Medical Student education is included in the fellowship duties.

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## Sleep

This ACGME-accredited Fellowship program is based within the Jefferson Sleep Disorders Center, the first sleep medicine program to be established in Philadelphia. Our primary goal is to develop independent practitioners of sleep medicine. We provide a comprehensive curriculum that is suitable for physicians from all host disciplines. Core faculty members include Karl Doghramji, MD (Program Director), Dimitri Markov, MD, Ritu Grewal, MD and Sunil Sharma, MD. The program has 20 additional faculty members representing multiple disciplines including otolaryngology, pulmonary medicine, psychiatry, oral and maxillofacial surgery, neurology, psychology, pediatrics, cardiology, gastroenterology, and nutritional health. The diversity in faculty reflects the multidisciplinary nature of the curriculum. Fellows experience patients and perform testing in a wide range of diagnostic entities, utilize and learn the gamut of therapeutic options in sleep medicine, and develop competency in the evaluation and management of inpatient and outpatient sleep disorders in all age ranges. Fellows are also actively involved in teaching and research. Those who have completed our program have obtained careers in both academic and clinical environments.

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## Philly FACTS

Thomas Jefferson University and Thomas Jefferson University Hospitals are located in historic downtown Philadelphia, in proximity to numerous educational, cultural and recreational facilities, and a short walk from Philadelphia's exciting waterfront. Affordable housing appropriate to resident needs is found throughout the city and surrounding counties. There is easy access to metropolitan New York and Washington, DC, areas.

- Attractions include: Independence Hall, National Constitution Center, Philadelphia Museum of Art, Franklin Institute, Philadelphia Zoo, Penn's Landing, Rodin Museum, the Barnes Foundation museum, Valley Forge National Historic Park, Theatre district, Lincoln Financial Field, Citizen's Bank Park, and the Comcast Center.
- Shopping flourishes in Center City Philadelphia. Jefferson is within walking distance to the heart of the shopping district.
- Jefferson is located minutes from the Philadelphia International Airport, an hour from Atlantic City, NJ, 90 minutes from numerous skiing areas and within a two-hour drive to New York City.
- Local colleges/universities: University of Pennsylvania, Villanova University, St. Joseph's University, Temple University, LaSalle University, Drexel University, University of the Sciences in Philadelphia, Philadelphia College of Osteopathic Medicine.
- Sporting Events: Flyers hockey, Eagles football, Phillies baseball, 76ers basketball, Union soccer, and Soul arena football.





[Jefferson.edu/Neurology](https://Jefferson.edu/Neurology)