Staff Associate in Radiology

Position Summary

The Computational Connectomics (CoCo) Laboratory, https://www.cocolaboratory.com/, in the Department of Radiology at Weill Cornell Medicine is seeking to welcome a highly motivated Staff Associate to join our team. The CoCo Lab, primarily affiliated with Weill Cornell Medicine in NYC and located on Cornell University's main campus in Ithaca, NY, focuses on using quantitative methods, including machine learning, applied to MRI-based measures of brain connectivity networks to understand the mysteries of the human brain. One major interest of our lab is in uncovering connectome-based mechanisms of impairment and recovery after neurological injury or disease, including traumatic brain injury, multiple sclerosis and stroke.

Responsibilities

The successful candidate will curate and organize datasets as they are obtained by the lab, create and execute pipelines for processing neuroimaging data, including resting state functional, diffusion and anatomical MRI and EEG as well as assist with analyzing the results of image processing pipelines using advanced statistical techniques. They will be expected to aid other lab members in processing and analyzing neuroimaging data and writing papers.

Qualifications include:

The candidate must hold a Bachelor's or Master's degree in Engineering, Computer Science, Applied Mathematics, Statistics, Data Science or related field. The individual must be fluent in programming (Python, Matlab, C++, R, etc.) and have a strong quantitative background, e.g. data science, statistics or machine learning. The individual must also be fluent in English and have excellent spoken and written communication skills. Some experience with neuroimage processing pipelines (diffusion, functional and anatomical MRI) that utilize FreeSurfer, FSL, Camino and SPM software is preferred.

Minimum requirements:

1) BS or MS in electrical/biomedical engineering, computer science, applied mathematics, statistics, data science or related field.
2) Fluent programming skills (Python, Matlab, C++, R, etc)
3) 2-3 years of experience with statistical modeling/machine learning/data science

To apply, please email a cover letter (highlighting research interests), CV, and names of three references to:

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About Us:

Weill Cornell Medicine: Founded in 1898, and affiliated with what is now New York-Presbyterian Hospital (NYPH) since 1927, Weill Cornell Medicine (WCM) is among the top-ranked clinical and medical research centers in the country. In addition to offering degrees in medicine, WCM also has PhD programs in biomedical research and education at the Weill Cornell Graduate School of Medical Sciences, and with neighboring Sloan-Kettering Institute and The Rockefeller University, has established a joint MD-PhD program for students to intensify their pursuit of Weill Cornell's triple mission of education, research, and patient care. WCM is divided into 24 basic science and patient care departments that focus on the sciences underlying clinical medicine and/or encompass the study, treatment, and prevention of human diseases. The basic science and clinical departments are located in buildings that straddle York Ave. between 68th and 72nd streets on Manhattan's Upper East Side. Weill Cornell Medical College has 1781 full-time faculty (3582 total faculty) distributed across 8 basic science and 15 clinical departments. WCM maintains major affiliations with Memorial Sloan-Kettering Cancer Center, The Rockefeller University, the Hospital for Special Surgery, as well as with the metropolitan-area institutions that constitute NYP Healthcare Network.

Weill Cornell Medicine is a comprehensive academic medical center that's committed to excellence in patient care, scientific discovery, and the education of future physicians in New York City and around the world. Our doctors and scientists-faculty from Weill Cornell Medical College, Weill Cornell Graduate School of Medical Sciences, and the Weill Cornell Physician Organization-are engaged in world-class clinical care and cutting-edge research that connect patients to the latest treatment innovations and prevention strategies. Located in the heart of the Upper East Side's scientific corridor, Weill Cornell Medicine's powerful network of collaborators extends to its parent university Cornell University; to Qatar, where an international campus offers a U.S. medical degree; and to programs in Tanzania, Haiti, Brazil, Austria and Turkey. Our medical practices serve communities throughout New York City, and our faculty provide comprehensive care at NewYork-Presbyterian Hospital/Weill Cornell Medical Center, NewYork-Presbyterian/Lower Manhattan Hospital, and NewYork-Presbyterian/Queens. At Weill Cornell Medicine, we work together to treat each individual, not just their conditions or illnesses, as we strive to deliver the finest possible care for our patients - the center of everything we do.