Universitätsklinikum Hamburg-Eppendorf

PhD student (f/m/d) Computational Neuroscience and Lifespan Psychology
Institute of Systems Neuroscience, Hamburg

The Lifespan Neuroscience group (led by Dr. Stefanie Brassen) is currently seeking a qualified PhD student with a strong interest in Data Science for a DFG-funded research project (3 years, TVÖD E13 65%) on Neuronal and Behavioral Predictors for Emotional Well-being across the Lifespan. The project is focused on multimodal imaging and behavioral data from the first 1000 participants of the Hamburg City Healthy Study (HCHS, www.hch-study.com).

The Institute of Systems Neuroscience (ISN, head: Prof. Christian Büchel) provides an excellent multi-disciplinary and highly interactive neuroimaging environment with its own physics, psychology and clinical neuroscience groups as well as a research dedicated 3T MR scanner (PRISMA), EEG- and psychobehavioral laboratory. The institute hosts an international graduate school that offers a comprehensive program covering all areas of neuroscience and provides PhD students with an excellent research environment.

Tasks
- We are seeking a highly motivated PhD student with a strong interest in data analysis who is willing to work interdisciplinary in the field of neuroscience, computational modeling and decision-making.
- The candidate will be responsible for analyzing multimodal imaging data (e.g., rs-fMRI, DTI) as well as experimental data on decision-making using multivariate analysis techniques and machine learning algorithms and for developing and validating an integrated prediction model for emotional well-being.
- The successful candidate will present results of the study at national and international conferences

Requirements
- Master of Science or an equivalent degree in neuroscience, psychology, informatics, or a related discipline
- Experience in programming (e.g. Matlab, Python)
- Very good statistical knowledge
- Good writing skills in English
- Experience with analyzing neuroimaging data, and some knowledge of cognitive neuroscience would be an advantage

We offer
- Opportunity to get hands-on supervision for learning various analysis techniques
- Dynamic, interdisciplinary, and international research environment within the Institute of Systems Neuroscience and HCHS
- Multiple training opportunities within the institute
- Possibility to join the local graduate school, which is a member of national and international networks
- Responsibility for a multidisciplinary project with high social and clinical relevance

Contact
Candidates should submit a CV and brief statement of research interest by e-mail to Dr. Stefanie Brassen (sbrassen@uke.de). Informal inquiries are very welcome.
Applications will be considered until the position is filled.