

Charité - Universitätsmedizin Berlin - Computationale Neurology at Charité - Universitätsmedizin Berlin



The research group "Computational Neurology" develops machine/deep learning methods along with theory-driven approaches from physics to better monitor, predict and prevent health deteriorations in epilepsy, intensive care and other neurological settings. Our approach utilizes multimodal data over the health-disease continuum, including wearables, in-hospital neuromonitoring, video and EEG. We are also studying the foundations of optimal information processing in biological and artificial intelligence neural networks. We are a highly interdisciplinary group where medical doctors/neurologists work closely together with natural scientists including physicists/data scientists. Our modern lab and office spaces are located in central Berlin at Charité Campus Mitte. You can learn more about our work also on our website www.computational-neurology.org

Doctoral position in Computational Neurology

City: Berlin; Starting date (earliest): At the earliest possible; Remuneration: 13 TV öD VKA-K (65%)

Working field

- analysis of multimodal time series data, including from from wearables and EEG
- developing predictive machine/deep learning models
- numerical simulations and modelling
- conduct research with clinical partners in a highly interdisciplinary team
- investigate the parallels in optimal function between biological and artificial neural networks

Requirements

- degree in a relevant field (e.g. Physics, Informatics, Data Science etc.)
- programming skills (Python/Matlab)
- strong communication skills
- interest in working in a translational clinical environment
- a general background in either neuroscience or nonlinear dynamics is beneficial

Application

Please send all application documents, such as your cover letter, resume and certificates to

Prof. Dr. med. Dipl.-Phys. Christian Meisel

christian.meisel@charite.de

www.computational-neurology.org

More information at <https://stellenticket.de/199015/HTWB/>
Offer visible until 23/11/25

