2 PhD positions in the project ConnectToBrain

Project leader: Prof. Ulf Ziemann, Hertie- Institut for Clinical Brain Research, Department Neurology and Stroke

Project summary: The project will develop multilocus transcranial magnetic stimulation (mTMS) applied to the human brain in a brain-state-dependent approach by utilizing high-density electroencephalographic (hdEEG) information about ongoing brain excitability and connectivity. The translational aim of the project is to improve therapeutic efficacy of TMS treatment of brain network disorders. The project is a consortium with other PIs in Finland and Italy, and funded by a European Research Council Synergy Grant. This offers international exchange for the PhD candidates. The experiments at Tübingen University focus on testing the new hdEEG-mTMS technique in healthy subjects, under pharmacological challenge, and in stroke and Alzheimer patients.

Project start: July 1, 2019.

Requirements: MA in neurobiology, neuroscience, bioengineering or similar, or MD. Programming capabilities (e.g., MatLab) would be an advantage.
Please send your application (CV, motivation letter, certificates, references) to ulf.ziemann@uni-tuebingen.de