PhD position in Human Psychophysics with TMS and/or EEG (m/f/d) (TV-L E13, 65%)

Faculty of Science, University of Tübingen and Max Planck Institute for Biological Cybernetics, working group of Prof. Li Zhaoping. We are looking for highly skilled and motivated individuals to work on projects aimed towards understanding visual attentional and perceptual processes using TMS and/or EEG methodologies. The framework and motivation of the projects can be found at http://www.lizhaoping.org/zhaoping/AGZL_HumanVisual.html. The projects can involve, for example, visual search tasks, stereo vision tasks, visual illusions, and will be discussed during the application process. TMS and/or EEG methodologies can be used in combination with fMRI/MRI, eye tracking, and other related methods as necessary.

Responsibilities:

- Conduct and participate in research projects such as lab and equipment set up, data collection, data analysis, writing reports and papers, and presenting at scientific conferences.
- Participate in routine laboratory operations, such as planning and preparations for experiments, lab maintenance and lab procedures.
- Participate in teaching assistance duties for university courses in our field.

Requirements:

- Master’s degree in neuroscience, psychology, computer science, physics or a related natural science or engineering field.
- Programming skills in MATLAB or Python or a similar language is required.
- Skills in techniques of human visual psychophysics, experimental data taking, data analysis is highly desirable.
- Skilled in report writing, previous peer reviewed publication is highly desirable.
- Familiarity with hardware and techniques in eye tracking, EEG, TMS, tDCS/tACS, and other related techniques such as in carrying out fMRI experiments is a plus.
- Strong command of English; knowledge of German is a plus.
Who we are:

We use a multidisciplinary approach to investigate sensory and sensory-motor transforms in the brain (www.lizhaoping.org). Our approaches consist of both theoretical and experimental techniques including human psychophysics, animal behavior, imaging, electrophysiology and computational modelling. One part of our group is located in the University, in the Center for Integrative Neurosciences (CIN), and the other part is in the Max Planck Institute for Biological Cybernetics as the Department for Sensory and Sensorimotor Systems. You will have the opportunity to learn skills from other members of the group and benefit from multidisciplinary interactions, including with our collaborators locally and internationally. The PhD contract duration is for 3 years. We seek to raise the number of women in research and teaching and therefore urge qualified women to apply. Disabled persons will be preferred in case of equal qualification.

Your application:

The position is available immediately and will be open until filled. Preference will be given to applications received by November 30, 2021. We look forward to receiving your application that includes a cover letter, your curriculum vitae, relevant certificates, and three names and contacts for reference letters) electronically through our job portal: https://jobs.tue.mpg.de/jobs/147
Informal inquiries can be addressed to jobs.li@tuebingen.mpg.de. Please note that incomplete applications will not be considered.

For further opportunities in our group, please visit http://www.lizhaoping.org/jobs.html