



CSC-Tübingen PhD Scholarship Program

2025 application round: prospective PhD positions at the University of Tübingen

Faculty:	Faculty of Science
Institute / Section / Subject:	Department of Computer Science, Sensory and Sensorimotor Systems
Supervising Professor:	Prof. Li Zhaoping, PhD
About the Supervisor:	Prof. Li is a professor at the University of Tuebingen, im Fachbereich Informatik. She proposed a theory that a saliency map is created in the primary visual cortex in the primate brain to automatically attract visual attention to salient visual locations. The theory led to the proposal of a new framework for understanding vision. For more information, please visit www.lizhaoping.org .
Specifications:	<ul style="list-style-type: none">- Visual psychophysics project studying visual saliency with eye tracking, dichoptic display and/or neuroimaging- Computational neuroscience project investigating neural circuit dynamics of the primary visual cortex
Topic Description:	We use a multidisciplinary approach to investigate sensory and sensory-motor transforms in the brain, focusing on vision. Our goal is to understand the brain by linking neural circuits with behavior through theories and models of computation for biological intelligence. To achieve that, we use theoretical and experimental techniques including visual psychophysics, computational modeling, eye tracking, EEG/ERP recordings, fMRI imaging, EEG recording or TMS in humans. It is not necessary to know all of these techniques to join our team, but skills and experience in at least one of them is expected.
Intended Degree:	Dr. rer. nat.
Type of the PhD Study:	Full-time (complete doctoral studies at the University of Tübingen)
Required Degrees and Qualifications:	Master's degree in neuroscience, psychology, computer science, physics, or a related natural science or engineering field and good programming skills.
Language Requirements:	Strong command of English (high-level ELTS, TOEFL)
Notes:	Students should have good programming skills (e.g. in MATLAB, Python or JavaScript) as well as strong basic knowledge and skills in natural science or engineering, they should be motivated, responsible and have good teamwork skills. Projects can be adapted according to interests, skills and training needs of the student.