CSC-Tübingen PhD Scholarship Program

2026/2027 application round: prospective PhD positions at the University of Tübingen

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Faculty:	Faculty of Medicine
Institute / Section / Subject:	Institute for Ophthalmic Research / ZEISS Vision Science Lab
Supervising Professor(s):	Prof. Dr. Siegfried Wahl
About the Supervisor(s):	Prof. Dr. Siegfried Wahl, physicist and developmental neurobiologist, is the principal investigator of the ZEISS Vision Science Lab within the Institute for Ophthalmic Research. He is a renowned expert in visual impairment research, especially in myopia and presbyopia, and in developing new individualized vision solutions to enable and enhance natural vision. He is author of more than 100 peer-reviewed scientific contributions, and he is the organizational representative in IAPB (International Agency of Blindness) and IMI (International Myopia Institute).
Specification/Project title:	Autonomous visual behavior tracker for myopia-risk monitoring
Topic Description:	Near work is one of the strongest modifiable risk factors for myopia. Continuously monitoring visual behavior can help to identify individual risk and enable timely interventions, such as reminders to change visual behavior or follow personalized myopia management strategies. Existing eye trackers are too bulky, power-hungry, or uncomfortable for all-day use. This PhD project will investigate alternative technologies that focus on estimating viewing distance rather than precise gaze direction. Research is necessary to understand how to utilize simple photosensors, instead of conventional eye-tracking cameras, to enable simplified, but comfortable and energy-efficient eye tracking throughout the day, making continuous visual behavior tracking practical for myopia prevention.
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 in Computer Science, Physics, Electrical Engineering or similar
Language Requirements:	English
Notes:	The ZEISS Vision Science Lab offers an innovative, international, and interdisciplinary environment with cutting-edge methods for meaningful contributions to eye health. It is from advantage if the candidate has already experience in gaze tracking, handling big-data, and/or miniaturization.