The labs of Philipp Berens (www.berenslab.org) and Thomas Euler (www.eulerlab.de) at the Center for Integrative Neuroscience (CIN) at the Eberhard-Karls-University of Tübingen are offering a

PhD position (TV-L E13 65%)

to be filled as soon as possible, with funding for 3 years. We offer employment with a salary and social benefits based on the collective agreement for public service employees in the academic and science sector, TV-L. The Eberhard-Karls-University of Tübingen promotes gender equality and therefore particularly encourages female scientists to apply. Preferential status will be given to handicapped persons, if equally qualified.

The successful candidate will combine experimental and computational approaches to study neuronal cell type specific computations in the mouse retina. The goal of the project is to provide an account of how the functional response properties of selected ganglion cell types arise from their anatomical structure, connectivity and dendritic integration properties. We envision a highly interdisciplinary project, where the successful candidate will perform state-of-the-art optical imaging and electrophysiological recordings and use computational approaches to analyze their data.

The CIN offers a stimulating interdisciplinary scientific environment where research is carried out at all levels of neuroscience. The two labs are also part of the Institute for Ophthalmic Research (Eye Hospital Tübingen) and affiliated with the Bernstein Centre for Computational Neuroscience (BCCN).

Furthermore, the project will be performed in collaboration with the lab of Tom Baden at the University of Sussex, UK (www.badenlab.org).

Requirements:

- Background in statistics, machine learning and data analysis
- Experience with electrophysiology and/or two-photon imaging or a strong desire to learn these techniques
- Programming experience in Python, Matlab, R or similar
- Strong quantitative skills

Interested applicants should contact Dr. Philipp Berens (philipp.berens@uni-tuebingen.de) providing:

- a curriculum vitae
- a one-page description of past research experience & future research interests
- a one-page description of the motivation for applying to this position
- names of at least two people that could provide letters of reference

Please compile your application in one single PDF-file.