



## Postdoctoral position in laminar fMRI

### Cortical layers: Examining the role of feedback in human visual perception

The Max Planck Institute for Biological Cybernetics (MPIBC), Tübingen, Germany is looking for an ambitious researcher wanting to push the boundaries of human neuroimaging acquisition and analysis to gain new insight into the brain mechanisms underlying human visual perception.

The position is funded through an Australian Research Council grant awarded to Dr Kiley Seymour, Prof Klaus Scheffler, and Prof Andreas Bartels. The research builds on the critical advancements this team have already made in the field of fMRI, by drawing on the latest advances in 9.4T fMRI and laminar analysis techniques to assess the function of cortical layers in the human visual system.

The focus of the position will be the application of well-validated design principles from the classic field of visual psychophysics to the latest methods in high-resolution 9.4T fMRI. The postdoc will work with an international and interdisciplinary team and is expected to advance the development of automated techniques for fMRI laminar data analyses.

The applicant should have:

- a PhD in cognitive neuroscience or a related discipline
- experience with acquisition/analysis of fMRI data (as proved by peer-reviewed publications)
- a theoretical interest in the area of visual perception
- good programming skills (preferably in Matlab and/or Python)
- fluency in English

Expertise in visual psychophysics, high-field fMRI and image processing (e.g., segmentation, parcellation, data modelling, image processing) is desired but not essential.

Research at the MPIBC is considered to be globally at the forefront in methodological developments to study the human brain. We offer a stimulating interdisciplinary environment with a wide network of collaborators and methodological support from leading experts. There is also excellent access to research facilities, including two research-dedicated Siemens Systems; 3T Prisma and 9.4T.

The position is intended for three years.

The Max Planck Society is an equal opportunity employer: Handicapped individuals are strongly encouraged to apply, and so are women in areas in which they are underrepresented. Applications should be a single pdf file that includes a motivation letter, CV (with publication list), and example publications (or preprints if you wish). Informal inquiries and applications should be sent to [kiley.seymour@tuebingen.mpg.de](mailto:kiley.seymour@tuebingen.mpg.de)

Deadline: March 30, 2021. Applications however will be considered until the position is filled.

