

The “[Developmental Computational Psychiatry](#)” lab led by Tobias Hauser in collaboration with Peter Dayan of the [Max Planck Institute for Biological Cybernetics](#) and the University of Tübingen invites applications for a

Postdoc Research Fellow (m/f/d; E13 TV-L, 100%, 2 years)

on the topic of computational modelling of a large behavioural dataset of multiple tasks and self-report questionnaires using advanced computational models (reinforcement learning, Bayesian models).

Potential topics include:

- Joint modelling of multiple tasks
- High-dimensional linkage between tasks and mental health classification/prediction
- Developing novel models for complex decision-making tasks
- Developing and testing novel decision-making tasks

in addition to the interests of the candidate.

For inquiries, please contact [Tobias Hauser](#)

About the position:

This position is suited for researchers who have recently finished or are about to finish their PhD in a relevant discipline, such as computational neuroscience, cognitive (neuro-)science, computer science, or psychology. The ideal candidate is self-motivated, comfortable with both analytic and critical thinking, and has a strong computational and cognitive science background. Relevant areas of expertise include computational modelling, reinforcement learning, machine learning, and cognitive modeling. The applicant should have excellent programming skills, experience with advanced behavioural and neuroimaging data analysis, and a strong publication record. The candidate should have a solid knowledge of decision neuroscience and computational psychiatry literature and ideally have experience working with data from vulnerable populations, such as psychiatric patients and/or developmental cohorts. The candidate would be expected to share their knowledge through informal instruction within the research groups. The working language is English; command of the German language is not necessary.

What we offer:

The position is funded by an Alexander-von-Humboldt-Professorship award to Peter Dayan and is initially limited to 2 years with the possibility of a further extension. We offer remuneration in accordance with TV-L (collective wage agreement for the Public Service of the German Federal States) in addition to all the customary benefits granted to employees working in Public Services.

The position is based at the University Hospital of Tübingen and part of the Developmental Computational Psychiatry research group, which is located both at Tübingen and the Max Planck UCL Centre for Computational Psychiatry and Ageing Research in London. You will be able to work on cutting-edge topics in computational psychiatry and computational neuroscience, and you will be linked to the new German Centre for Mental Health.

There are no formal teaching duties, allowing full flexibility for conducting research. There will be opportunities to mentor and work with PhD and MSc students working on related topics.

About Tübingen:

Tübingen is a scenic university town on the Neckar River in South-Western Germany. The quality of life is exceptionally high and the atmosphere is diverse, inclusive, and most locals speak English. Tübingen offers excellent research opportunities due to the University, three Max Planck institutes, the University Hospital, and Europe’s largest AI research consortium. You can find out more about Tübingen here: <https://www.tuebingen.de/en/>

How to apply:

If you are interested in the position, please get in touch with Tobias Hauser via email enclosing your CV and indicating your desired position.

For formal applications, please send a motivation letter, your CV, up to two representative publications, and the contact information of two referees *as a single PDF* to [Susan Fischer](#) with the subject “ComputationalPostdoc”. The University of Tübingen is an equal opportunities employer. Applications of qualified women academics are especially encouraged; applications of disabled persons will be given preferential treatment to those of other candidates with equal qualifications. Please note the applicable [vaccination regulations](#).

The employment will be arranged by the central administration of the University of Tübingen. Preference will be given to applications received by **18 October, 2024**, but applications might be considered thereafter until the position is filled.