



## Max Planck Institute for Biological Cybernetics MPRG Computational Principles of Intelligence

### Post-Doctoral Position (m/w/d) in Computational Models of Human Learning and Exploration

The Max Planck Research Group on “Computational Principles of Intelligence” at the Max Planck Institute for Biological Cybernetics in Tübingen, Germany, is looking to fill a fully-funded postdoctoral position (m/w/d) to work on research at the intersection of human and machine learning.

#### About the position:

We are looking for an postdoc to join our new lab working on computational principles of intelligence, starting this year (starting date is negotiable). The ideal candidate should hold a PhD in cognitive science, neuroscience, cognitive psychology, statistics, computer science, or any other computational field. Experience with behavioral, computational or neuroscientific methods and a record of publishing in peer-reviewed journals are required. This position will last for a minimum of 2 years (extension possible).

#### About the group:

The group (PI: Eric Schulz) conducts research on the fundamental principles of human intelligence. Our goal is to build and test comprehensive theories of the human ability to generalize from little data, to explore efficiently, and to find approximate solutions to complex problems. Some examples of our current research topics include (but are not limited to) exploration in vast decision spaces, the role of compositional generalization in rapid learning, the use of big data and complex online games to study human reinforcement learning, as well as modeling how people approximate inference when reasoning about events. Our research methods include laboratory and online experiments, computational modeling, machine learning, fMRI, interactive games and developmental research. We collaborate with researchers in Germany, the UK and the US. You can learn more about our research at [cpilab.org](http://cpilab.org)

#### About the institute:

The Max Planck Institute for Biological Cybernetics investigates information processing in the brain. The Institute uses experimental, theoretical and computational methods to study perception, memory, decision-making, motor performance and more. The Institute is multidisciplinary, has excellent facilities and outstanding infrastructure, is closely linked to sister Max Planck Institutes and the University of Tübingen, and offers a superb international research environment operating in the English language. More details about the institute can be found on its website: [kyb.tuebingen.mpg.de](http://kyb.tuebingen.mpg.de)

#### About Tübingen:

Tübingen is a scenic medieval university town. The quality of life is exceptionally high and the atmosphere is both tolerant and inclusive. Most locals speak English and knowledge of German is not required to live here. Tübingen offers excellent research opportunities due to four Max Planck institutions, the University, the University Hospital, the Hertie Institute for Clinical Brain Research, the Werner Reichardt Centre for Integrative Neurosciences, and several companies focusing on machine learning research. The old town is a sight in itself, with marvellous old buildings dating back to the 15th century, an old botanical garden, many churches and cobblestone alleys. Numerous sidewalk cafes, wine taverns, pubs, restaurants and parks add to the atmosphere. You can find out more about Tübingen here: [tuebingenresearchcampus.com](http://tuebingenresearchcampus.com)

#### How to apply:

Please email a cover letter, CV and 1-2 representative publications, as well as the names and email addresses of 3 referees to [eric.schulz@tuebingen.mpg.de](mailto:eric.schulz@tuebingen.mpg.de). If you have any questions about the position, the research group, or anything else, please do not hesitate to contact us directly. The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals. The Max Planck Society strives for gender equity and welcomes applications from scientists from all backgrounds. We actively encourage applications from persons with disabilities. Applications will be reviewed until the position is filled.