



## Research Project for Master Student

We are looking for a highly motivated Master student who is interested in working in an interdisciplinary and international team at the Chair of Neuroimaging, Department of Psychology, Technische Universität Dresden. The goal of the project is to experimentally test predictions of computational models of goal-directed behavior and cognitive control. An experienced postdoc will closely supervise and support the thesis work.

### Tasks

- Familiarize with existing models of goal-directed action selection.
- Co-develop experimental paradigm which enables testing of model predictions.
- Collect and analyze behavioral data.

### Requirements

- Motivation and interest in working in an interdisciplinary and international team.
- Desirable: Familiarity with the scientific programming languages, e.g. Matlab or Python.
- Desirable: Interest in computational cognitive modeling.

### What experience will you gain?

- Principles in ecologically valid computational models of goal-directed action selection and decision making.
- Expertise in how novel computational models can be used to test long-standing questions in psychology and cognitive neuroscience
- Be part of a vibrant research group.

### About us

Our research group works in the field of Computational Cognitive Neuroscience on the development of neurobiologically plausible mechanisms that help us understand how our brain pursues goals. Our research group consists of computer scientists, physicists, and cognitive scientists.

### Contact

To apply for this project, or if you require further information about the research project, or have organizational questions, please contact Prof. Stefan Kiebel ([stefan.kiebel@tu-dresden.de](mailto:stefan.kiebel@tu-dresden.de)) or Dr. Dimitrije Marković ([dimitrije.markovic@tu-dresden.de](mailto:dimitrije.markovic@tu-dresden.de)). We are looking forward to hearing from you!