

## **Faculty of Psychology**

At the **Institute of General Psychology, Biopsychology and Methods of Psychology** the **Chair of Neuroimaging** invites applications for a project position as

### **Research Associate / Postdoc**

(Subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

The position starts **as soon as possible** and is initially limited until June 30, 2024. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (WissZeitVG).

The position is part of an interdisciplinary research collaboration, the CRC 940 'Volition and Cognitive Control' (<https://tud.link/ylxq>), funded by the German Research Foundation. The overall aim of the CRC is to identify the cognitive and neuronal mechanism that underlie the control of goal-directed actions and decision making. Within the CRC, the specific aim of our group is to take a fresh look at the role of context-specific action selection to enable fast and accurate decisions in dynamic and uncertain task environments. The project will provide an excellent opportunity to work within an interdisciplinary environment of cognitive and computational neuroscientists, psychologists and physicists. This project allows for the possibility of collaborating with researchers within the CRC whose research focuses on decision making in the context of clinical or lifespan psychology.

**Tasks:** At the Chair of Neuroimaging (head: Prof. Stefan Kiebel), the goal of this position is to elaborate on novel experimental frameworks to investigate plausible models of sequential decision-making in the Bayesian Brain. The successful applicant will do this by

- conducting both behavioural and neuroimaging (preferably fMRI) experiments
- testing novel hypotheses about context-modulated cognitive control mechanisms using sequential decision making tasks in collaboration with computational researchers at the chair
- developing novel experimental paradigms.

The candidate will be supported in these tasks by an experienced group of both experimental and computational researchers.

**Requirements:** university and PhD/doctoral degree in Cognitive Neuroscience, Psychology or a similar experimental background; good prior publication record; strong expertise in the analysis of behavioural and neuroimaging (preferably fMRI) data; advanced programming skills in Matlab, R, or Python; high proficiency in both verbal and written English; ability to work cooperatively with colleagues at all levels.

The CRC and TU Dresden provide an outstanding scientific infrastructure and ideal environment for interdisciplinary cooperation. For computational work, the group has access to the Centre for Information Services and High Performance Computing at TU Dresden. Experiments will be performed at the Neuroimaging Centre (<http://www.nic-tud.de>). The Neuroimaging Centre is equipped with a research-only MRI scanner (Siemens 3T TIM Trio), MRI-compatible EEG and eye tracking, and a transcranial magnetic stimulation (TMS) unit. All experimental facilities are supported by experienced physics and IT staff.

For questions about this position please contact Prof. Stefan Kiebel ([stefan.kiebel@tu-dresden.de](mailto:stefan.kiebel@tu-dresden.de)). Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your complete application including the documentation (cover letter including a brief description of personal qualifications and future research interests, CV and contact details of two personal references) preferably via the TU Dresden SecureMail Portal <https://securemail.tu->

dresden.de (stating: **A9-PostDoc**) by sending it as a single pdf document to **[julia.herdin@tu-dresden.de](mailto:julia.herdin@tu-dresden.de)** or by mail to **TU Dresden, Fakultät Psychologie, Institut für Allgemeine Psychologie, Biopsychologie und Methoden der Psychologie, Professur für Neuroimaging, Herrn Prof. Dr. Stefan Kiesel, Helmholtzstr. 10, 01069 Dresden**. The deadline for applications is **December 18, 2020** (stamped arrival date of the university central mail service applies). Please submit copies only as your application will not be returned to you.

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**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: <https://tu-dresden.de/karriere/datenschutzhinweis>