Faculty of Psychology

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

Research Associate / Postdoc

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

starting **01.01.2020**, limited until 30.06.2023. The period of employment is governed by the Fixed Term Research Contracts Act (WissZeitVG). The position aims at obtaining further academic qualification (e.g. habilitation thesis). The successful applicant will work on developing novel computational methods for the analysis of cognitive neuroscience data measured in sequential decision making experiments with a focus on planning under uncertainty.

The position is associated with two Collaborative Research Centres (CRC): the CRC 940 'Volition and Cognitive Control: Mechanisms, Modulators, and Dysfunctions' (https://tu-dresden.de/bereichsuebergreifendes/sfb940?set_language=en), and the TRR 265 'Losing and Regaining Control over Drug Intake: From Trajectories to Mechanisms to Interventions' (https://sfb-trr265.charite.de/en/). These centres combine research in cognitive and computational neuroscience with research in psychology, cognitive neuroscience and psychiatry. The position is an ideal opportunity to work in an interdisciplinary group of researchers, and contribute to specific research questions in the two CRCs, e.g. to identify computational and neuronal mechanisms underlying decision making dilemmas, (e.g. exploration vs. exploitation) and habitual vs. goal-directed control.

Tasks: Developing computational models for behavioural and neuroimaging data and collaborating with experimental neuroimaging researchers to test newly developed models. The candidate will be supported in these tasks by an experienced group of both computational and experimental researchers.

Requirements: university and PhD/doctoral degree in Physics, Computational Neuroscience, Mathematics or a similar mathematically oriented background; Expertise in computational modelling of behavioural data; Programming skills in Python and/or Matlab. The candidate shall have a strong interest to work at the interface between computational and experimental neuroscience. Expertise in neuroimaging data analysis is a plus.

The two CRCs 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). Applications from women are particularly welcome. The same applies to people with disabilities. Applicants should send their complete application documents (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: Project CNS**) by sending it as a single pdf document to **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 Kiebel, Helmholtzstr. 10, 01069 Dresden. The deadline for applications is **29.11.2019** (stamped arrival date of the university central mail service applies). Please submit copies only as your application will not be returned to you.

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