

Faculty of Psychology

The **Institute of General Psychology, Biopsychology and Methods of Psychology, Chair of Cognitive and Clinical Neuroscience** (Prof. Katharina von Kriegstein, <https://tu-dresden.de/mn/psychologie/ifap/kknw>) offers, subject to the availability of resources, a position as

Research Associate / PhD student / Postdoc (m/f/x)

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

with 75% of the fulltime weekly working hours for doctoral candidates or 100% for postdocs. The position is starting **as soon as possible** and has a duration of 3 years with possible extension. The period of employment is governed by the Fixed Term Research Contracts Act (WissZeitVG). The position offers the chance to obtain further academic qualification (e.g. PhD / habilitation thesis).

The project: The position is part of ReDyslexia funded by ERANET-NEURON (<https://www.neuron-eranet.eu/projects/ReDyslexia/>). ReDyslexia is a research consortium of neuroscientists and clinicians that have the aim (1) to better understand sensory pathway dysfunction in developmental dyslexia, and (2) to directly use this knowledge for improving treatment strategies. ReDyslexia includes studies in humans with developmental dyslexia as well as experiments in animal models.

Tasks: The task involves (i) using a neuroimaging and behaviour database to assess sensory pathway dysfunction in dyslexia during childhood development, (ii) employing neurostimulation, neuroimaging, and behavioural measurements to assess and establish novel treatment approaches in adult dyslexics, and (iii) collaborating with clinicians and wet-lab neuroscientists to develop common experimental paradigms across different developmental stages and species.

Requirements: PhD student candidates must have a university degree (e.g. Master) in neuroscience, psychology, cognitive science, or a related field. Postdoc candidates must have an additional PhD degree in similar fields and should be able to demonstrate a consistently outstanding academic record, including publications. Candidates should have a strong interest in sensory aspects of human communication and experience with experimental methods of cognitive neuroscience (e.g., psychophysics, functional or structural MRI, neurostimulation) as well as with analysis software (e.g., JASP) or programming languages (e.g., matlab, python). Experience with clinical populations (e.g., developmental dyslexia) would be an asset.

The setting: TU Dresden is one of eleven German Universities of Excellence. It provides an outstanding scientific infrastructure and ideal environment for interdisciplinary cooperation. Developmental neuroimaging projects will be conducted in collaboration with Dr. R. Bethlehem (University of Cambridge, <https://www.autismresearchcentre.com/staff/richard-bethlehem/>). Experiments will be performed at the Neuroimaging Centre (NIC, <http://www.nic-tud.de>). The NIC is equipped with a research-only MRI machine (Siemens 3T Prisma), MRI-compatible EEG, eye-tracking and noise-cancellation headphones, and a neurostimulation unit including TMS, tDCS, and tFUS. All experimental facilities are supported by experienced physics and IT staff. For computational work, there is access to the Centre for Information Services and High Performance Computing at TU Dresden. The TU Dresden Graduate Academy offers a comprehensive training programme and individual career advice for early career researchers (https://tu-dresden.de/ga?set_language=en). Applications from women are particularly welcome. The same applies to people with disabilities.

Contact for Questions: For questions about the position please contact Prof. Dr. Katharina von Kriegstein (katharina.von_kriegstein@tu-dresden.de).

Application instruction: Please submit your complete application including (a cover letter that briefly describes your personal qualifications and future research interests, CV, contact details of 2 personal references, and 1-2 publications as PDF for postdocs) by sending it as a single PDF document preferably via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> (**subject:**

ReDyslexia2022) 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 Kognitive und Klinische Neurowissenschaft, Prof. Katharina von Kriegstein, Helmholtzstr. 10, 01069 Dresden. The deadline for applications is **February 23, 2022** (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>