

Johannes Gutenberg University Mainz (JGU) is one of the largest universities in Germany. Thanks to its location in the Rhine-Main science region, the university can unfold to its full potential and showcase its innovative power and dynamism. Its status as a comprehensive university allows for multidisciplinary learning and teaching and has great potential for internationally renowned, interdisciplinary research. Almost all of its institutes are located on a single campus close to the Mainz city center – creating a lively academic culture for researchers, teaching staff, and students from every continent.

## Analysis and Modeling of Complex Data Lab of Johannes Gutenberg University Mainz

# Postdoc (m/w/d)

part-time (75 %) or full-time (100%)

*The main interest of the Analysis and Modeling of Complex Data Lab lies in the development, application, and evaluation of multivariate methods that can be used to describe individual differences in elementary cognitive processes. Current research topics include the computational modeling of working memory and attention processes, the integration of computational model parameters with electrophysiological correlates of cognitive processes, and the neurocognitive processes underlying individual differences in human intelligence.*

### Your tasks:

- Independent research and the development of an individual research profile within the main research areas of the lab
- Peer-reviewed publications and presentations at international conferences
- Supporting the preparation of grant proposals
- Independent teaching of classes on research methods and/or psychometrics
- Assistance in the organization of courses and exams
- Supervision of Bachelor and Master theses
- Responsibilities in academic self-government

### Your profile:

*In addition to the general service requirements, applicants must fulfill the hiring requirements listed in §57 of the Rhineland-Palatinate Higher Education Act.*

- A doctoral degree (already completed or soon to be completed) in Psychology, Cognitive Science, Cognitive Neuroscience, or a related field
- Dedicated pursuit of an academic career
- Interest in the analysis and modeling of complex data and at least one of the following topics: a) model-based cognitive neuroscience, b) cognitive modeling, c) neurocognitive basis of intelligence
- Advanced knowledge of research methods in at least one of the following areas: a) multivariate research methods (e.g., structural equation modeling, multi-level models, network models), b) cognitive modeling, c) Bayesian statistics, d) modeling of neural data
- Experience in laboratory (neuro-)cognitive research, ideally with EEG or DTI
- Very good command of English (written and oral)
- Quick thinking, high working morale, solution orientation, team orientation, communication skills
- Interest in open science and good scientific practice

### What we have to offer:

- Opportunity for developing an independent research profile and pursuing an academic career
- An excellent research environment
- Very good lab infrastructure
- Work in a highly motivated, friendly, and supportive team
- Membership in the DFG-funded scientific network “Neurocognitive Psychometrics”
- Jobticket, optional for the entire Rhine-Main area
- Extensive human resources development offer
- Flexible working time arrangements

The position is paid according to EG 13 TV-L. The position is initially limited to a period of 3 years.

JGU is diverse and welcomes qualified applications from people with varied backgrounds.

We highly encourage applications from underrepresented groups, explicitly (but not exclusively) first-generation students, women, immigrants, parents, POC, LGBT\*IQ.

Candidates with severe disabilities and appropriate qualifications will be given priority.

Please send your complete application as one pdf file by **May 15, 2021** at the latest to:

**[anna-lena.schubert@uni-mainz.de](mailto:anna-lena.schubert@uni-mainz.de)**

For questions and further information please contact [anna-lena.schubert@uni-mainz.de](mailto:anna-lena.schubert@uni-mainz.de). If you have any questions about the position, the lab, or anything else, please do not hesitate to contact us directly.

[Data protection information](#)



JOHANNES GUTENBERG  
UNIVERSITÄT MAINZ