KATHOLISCHE UNIVERSITÄT EICHSTÄTT-INGOLSTADT

The Catholic University of Eichstätt-Ingolstadt (KU) is a non-state university under church leadership and officially recognized by the Free State of Bavaria. It is committed to strong research and excellent teaching and combines first-class study conditions with an international focus. Eight faculties offer a wide range of subjects for around 5,000 students. The University employs 900 people of different faiths and beliefs. Grounded in the Christian view of human life, the KU aims to create an academic and educational culture of responsibility

The Professorship of General Psychology II at the Faculty of Philosophy and Education invites applications for a part-time position (75%) as

doctoral research assistant (m/f/d)

to be filled by the earliest possible starting date, limited to a period of three years. The place of work shall be Eichstätt. The salary is determined by the labor agreement of the Länder for the public service (TV-L). Provided that the requirements are met, remuneration in the private-law employment relationship will be based on pay grade E 13 TV-L. The successful candidate will have the opportunity to complete a doctoral degree and we therefore explicitly welcome applicants who are pursuing a PhD project.

Your responsibilities
You will be part of the research project "Cognitive modelling: Blessing or curse for replicability in psychology?", funded by the German Research Foundation (DFG) as part of the Priority Program SPP 2317 META-REP: "A Meta-scientific Programme to Analyse and Optimise Replicability in the Behavioural, Social, and Cognitive Sciences". The aim of the research project is to investigate if cognitive modeling is able to produce robust, reproducible and replicable results. For this purpose, we will investigate specifically the reproducibility of cognitive models based on Bayesian Brain Theory. First, we will attempt to reproduce the analyses conducted by the authors of the original studies using the original data sets. Second, we will examine the robustness of cognitive modeling analyses by systematically assessing the impact of a variety of theoretically equivalent analysis decisions onto the results. Finally, we will test if we obtain equivalent results as reported in the original studies when we perform exact replication studies of the original experiments.

In detail, your involvement in our project will require the following tasks:
- Data analysis with a focus on cognitive modeling
- Planning and conducting replication studies
- Publishing your results in peer-reviewed scientific journals
- Presenting your results at national and international scientific conferences

Your profile
- An excellent degree in psychology, neuroscience, cognitive biology, mathematics, statistics, or a related discipline (Master of Science or equivalent degree)
- A strong interest in reproducible research and cognitive modeling
- Experience in data analysis
- Basic knowledge in scientific programming (skills specifically in the programming languages R or Python are preferred)

Our services
- Participation in the current movement for reproducible research to address the replication crisis in psychology
- Training in cutting-edge analysis techniques in cognitive modeling
- A dynamic research environment with excellent facilities

- Opportunity for interdisciplinary exchange and collaboration with researchers from other fields within the scope of the priority program META-REP
- a small team

Your application

Please send your application with the usual supporting documents by e-mail to Dr. Manuel Rausch, manuel.rausch@ku.de, by April 1, 2022, stating the earliest possible starting date (please combine all documents in <u>one</u> PDF file). All submitted application documents will be destroyed in accordance with data protection regulations after the hiring process has been completed.

All employees are obliged to acknowledge the nature and mission of the KU as stipulated in its Mission Statement and Foundation Charter. The University is therefore interested in receiving applications with relevant information in this regard.

The KU is committed to promoting equal opportunities for men and women, and aims to ensure that its members are able to balance work and family life. Candidates with severe disabilities who are equally suitable to other applicants will be prioritized.