

Student Assistant in the Field of Human-AI Interaction

Topic: Quantification of human bias and AI-based bias in the evaluation of school exams

As part of a research project, we investigate whether and to what extent human bias occurs in the evaluation of school exams when exams are provided with different student profiles. We then compare these human biases with the biases of Large Language Models (LLMs) that evaluate the same exams. Additionally, we examine whether the quality of human evaluations improves when an LLM is provided to the evaluators as a supportive assessment tool. The aim is to better understand the interaction between human judgment competence and AI assistance, and to identify possibilities for reducing bias.

To support this project, we are looking for a dedicated student assistant with an interest in psychological judgment and decision-making research, human-AI interaction, and experimental research. Payment is based on the minimum wage of the state of Berlin (currently €13.69 per hour).

Tasks

- Assisting in the conception and implementation of experimental study designs
- Support with statistical analysis (e.g., R, Python)
- Literature research on bias and LLM-based evaluation systems in the school context
- Preparation and processing of research data
- Support in the creation of presentations and scientific reports

Your profile

- Enrolled in a degree program in Psychology or Human Factors (Bachelor's or Master's)
- Basic knowledge of statistics and empirical research
- Ideally, initial experience with statistical software (R or Python)
- Independent and conscientious working style
- Enjoyment of analytical thinking and scientific work

Our offer

- Flexible working hours: 41–80 hours per month
- Possibility to combine with your Master's or thesis project
- Collaboration in an interdisciplinary research group (psychology, computer science) and in an interdisciplinary research project
- Multidisciplinary collaboration with schools and teachers

- Work in an international, inspiring environment
- Diverse opportunities for professional and personal development

Application

We look forward to your application!

Apply now with your CV, your transcripts, and your certificate of enrollment to [Jana Gonnermann-Müller](mailto:gonnermann-mueller@zib.de) (gonnermann-mueller@zib.de).

Applications from women are explicitly encouraged, as women are underrepresented in the fields of AI and computer science, and ZIB aims to increase the proportion of women in this area. We value diversity in our teams and therefore welcome all applications from individuals with personal or family migration backgrounds, different sexual and gender identities, social, ethnic, and religious affiliations, as well as physical and cognitive abilities.

You can find our data protection information for the application process at www.zib.de/impressum.