

The Ruhr area, one of Europe's largest metropolitan regions, offers attractive career opportunities for excellent scientists and scholars from around the world. In 2021, Ruhr University Bochum, TU Dortmund University and the University of Duisburg-Essen established the Research Alliance Ruhr to bundle their cutting-edge international research on the most urgent challenges facing humankind. There are four research centers and a college. This is just the latest chapter in our long-standing collaboration as the University Alliance Ruhr (UA Ruhr), a community of 14,000 researchers and 120,000 students in the heart of Germany.

The Chair for Human-AI Interaction at the TU Dortmund offers a position within the Research Center Trustworthy Data Science and Security as PhD Researcher. The position is to be filled as early as possible and is in full-time (part-time possible). Payment according to public services agreement: TV-L E13.

PhD Position Human-AI Interaction (3 years)

We invite applications from excellent candidates to work with us in the field of human-computer interaction and artificial intelligence (AI). Our research shapes the user's perception of collaborations between humans and AI systems. With your research, you will play a central role in the development of our new research center and outreach with trustworthy technologies to the general public. In this position, we will explore and design communication and interaction patterns that enable effective and meaningful human-AI interaction. We aim to answer questions such as: How can we go beyond the currently dominant text-based interfaces to facilitate efficient, effective, and satisfactory multimodal human-AI interaction? How can users interact, control, and understand AI systems? And how can we foster trust, transparency, and user understanding in such interactions? This research sits at the intersection of Human-Computer Interaction, and Artificial Intelligence and will contribute to the development of adaptive, human-centered AI systems.

YOUR RESPONSIBILITIES

- Conducting research individually and independently through collaborations with other researchers
- Maintaining and extending the research lab environment (hardware and software)
- Supervision of student research assistants working in the research lab
- Supervision of Bachelor's and Master's theses

YOUR QUALIFICATIONS

- Excellent degree (Master of Science or equivalent) in computer science, human-computer interaction, or similar programs
- Strong proficiency in human-computer interaction
- Strong proficiency in programming
- Proficiency in the development and validation of AI systems
- Proficiency in hardware prototyping
- Experience with experimental design, both quantitative and qualitative
- High proficiency in English, both written and spoken, for your scientific publications and presentations

WHAT WE OFFER

- Work in an outstanding, internationally visible research environment
- Active supervision and promotion of your scientific development toward a doctoral degree
- We aim at both theoretical research as well as practical applications in close collaboration with academic and industrial partners
- Access to state-of-the-art research facilities and resources, including our Robotics Research Lab
- A collaborative and supportive research environment with an international, friendly, and dedicated team
- A balanced and family-friendly work-life relationship is important to us; thus, we offer options for flexible working times or part-time remote home-office.

RESEARCH ALLIANCE RUHR

The Research Alliance Ruhr is a joint undertaking of the three major universities in the Ruhr area and was initiated by the Ruhr Conference. The four research centers focus on "One Health Ruhr," "Chemical Sciences and Sustainability," "Trustworthy Data Science and Security," and "Future Energy Materials and Systems." In addition, the Research Alliance Ruhr has established a "College for Social Sciences and Humanities".

The Research Alliance Ruhr will appoint up to 50 research professors in the next few years and also offer numerous positions for research assistants. Join us now to create innovations for the world of tomorrow in Europe's densest university landscape, where you can find a wide range of scientific and industrial partners right on the doorstep.

YOUR APPLICATION

If you are interested in the position, please send your application (Ref-No. w54-25) until 22.07.2025 to:

**Research Center Trustworthy
Data Science and Security Technische
Universität Dortmund
Prof. Dr. Sven Mayer
Joseph-von-Fraunhofer-Str. 25
44227 Dortmund**

open-positions@rc-trust.ai

Please provide the usual documents: motivation letter, CV, a summary of the Master's thesis, copies of your certificates and 2 candidates who can provide a reference letter for you.

DIVERSITY

The TU Dortmund University promotes diversity and equal opportunities. Convince us with your personality and expertise.

Applications from women will be given preferential treatment in accordance with the legal regulations. It is pointed out that the application of suitable severely disabled persons is desired.

FURTHER INFORMATION

If you have any further questions, please contact the office of Prof. Dr. Sven Mayer:
sarah.keuter@tu-dortmund.de