

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-Universität 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 will be 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.

As part of the Research Alliance Ruhr, the Research Center Trustworthy Data Science and Security (RC Trust) is seeking to fill the following position at the Department of Computer Science of TU Dortmund University as soon as possible :

Professorship (W3) for Trustworthy Data Science

Your Responsibilities

The person selected to hold the new professorship for Trustworthy Data Science will specialize in research and teaching in the field of trustworthy algorithms and theory for the next-generation of machine learning and artificial intelligence. The teaching load is reduced to four weekly hours per semester. The successful candidate is expected to contribute to English-taught courses in computer science or data science.

Your Qualifications

We are seeking an outstanding individual and established scientist holding an excellent PhD with continuous publication activities in highly ranked international venues in the recent years. These should be in at least one of the following areas.

- Explainable Machine Learning
- Fairness and Transparency
- Visual Data Analytics
- Game-Theory
- Causal Inference
- Formal Guarantees
- Adversarials and Robustness

Applicants should complement the research activities of the RC Trust and the Department of Computer Science and need to be willing to contribute to interdisciplinary collaborative research projects and collaborations within and outside the RC Trust and the Research Alliance Ruhr universities. Applications of trustworthy data science include but are not limited to life sciences, social sciences, health, autonomous systems, logistics or engineering.

A high visibility and successful experience in self-acquirement of third-party funding projects are mandatory. Strong social and leadership skills and willingness to participate in academic self-administration complete your profile.

In addition, the recruitment criteria of Sections 36 and 37 of the North Rhine-Westphalia Higher Education Act (Gesetz über die Hochschulen des Landes Nordrhein-Westfalen, HG NRW) apply.

Attractive Environment

The professorship will be part of the newly established Research Center Trustworthy Data Science and Security. The Center will enable research that connects psychology, computer science, statistics and cyber security in order to empower humans to understand, control and verify artificial intelligence technology as well as modern machine learning in (semi-)automated decision making.

The Research Center is linked to all three member universities of the University Alliance Ruhr. We offer you an excellent scientific environment and attractive opportunities for collaboration with renowned international, national, and regional partners. The professorship advertised here will be closely associated with the departments of computer science and statistics as well as the Dortmund Data Science Center (DoDSc) at TU Dortmund University.

These institutions enjoy an excellent international reputation in the fields of basic and applied machine learning research. These core issues have been consolidated in numerous interdisciplinary research collaborations among more than 30 data science professors. All involved departments have a strong track record of acquiring major extramural support for collaborative research funds in the area of data science and machine learning (SFB 823: Statistical modelling of nonlinear dynamic processes, SFB 876: Providing Information by Resource-Constrained Data Analysis, Competence Center Machine Learning Rhine-Ruhr (ML2R)).

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 will focus on "One Health," "Chemical Sciences and Sustainability," "Trustworthy Data Science and Security," and "Future Energy Materials and Systems." In addition, the Research Alliance Ruhr is establishing 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 in a single PDF file by July 29, 2022 to:

bewerbung@cs.tu-dortmund.de

Details on the application process and the preparation of application documents can be found here:

<https://berufung.tu-dortmund.de/en/application/>

Please address any questions to Professor Dr. Emmanuel Müller, Department of Computer Science:

Tel: +49 231 755 - 7722

<http://www.cs.tu-dortmund.de/>

Our Welcome Services

Our Welcome Services are happy to assist especially international applicants and their families with relocating to the Ruhr area, an up-and-coming metropolitan region. We can advise you on housing in urban or more rural areas and help you find childcare if needed. Our Dual Career Service can help your partner with their own professional development in the region if requested.

Diversity

The UA Ruhr promotes diversity and equal opportunities. We strive to significantly increase the percentage of women in research and teaching and therefore welcome applications from female academics. We give preference to severely disabled applicants if their qualifications meet the requirements.

Further Information

Further information about the Research Center Trustworthy Data Science can be found at:

www.rc-trust.ai

There you will also find the advertisements for other open professorships of the RC Trust.