

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 Statistics of TU Dortmund University as soon as possible:

Professorship (Open Rank: W3 or W2 tenure track to W3) for Causality

Your Responsibilities

The person selected to hold the new professorship for causality will specialize in research and teaching in the field of causal analysis and inference for the next generation of statistical, machine learning and artificial intelligence methods. The teaching load is reduced to four weekly hours per semester. The successful candidate is expected to contribute to English-taught courses in statistics or data science.

Your Qualifications

We are seeking an outstanding scientist who holds an excellent PhD, has experience in applying for third-party funding and has published in relevant and highly ranked international venues. These should be in at least one of the following areas:

- Causal Discovery and Structure Learning,
- Causal Machine Learning,
- Causal Modelling and Inference,
- Policy Evaluation and Treatment Effects,
- Probabilistic Graphs or Structural Equation Models.

Applicants should complement the research activities of the RC Trust and the Department of Statistics and be willing to contribute to interdisciplinary collaborative research projects and collaborations within and outside the RC Trust and the Universities of the Research Alliance Ruhr. Willingness to acquire third-party funds is expected. Potential applications include but are not limited to life sciences, social sciences, health, economics, logistics or engineering. For the W3 professorship, continuous publication activities in relevant and highly ranked international venues in the recent years as well as the successful and independent acquisition of research projects or competitive third-party funds including cooperative joint research collaborations are mandatory.

Strong social and leadership skills and willingness to participate in academic self-administration complete your profile.

In the case of the W2 professorship with W3 tenure track, the successful candidate will initially be appointed as a temporary civil servant for five years. At the end of this five-year period at the latest, the tenure track will lead to continued employment as a tenured W3 university professor, provided that the necessary aptitude, competence and academic performance have been demonstrated and that the legal requirements pertaining to Section 38 of the North Rhine-Westphalia Higher Education Act (HG NRW, Gesetz über die Hochschulen des Landes Nordrhein-Westfalen) are met.

In addition, the recruitment criteria of Sections 36 and 37 of the North Rhine-Westphalia Higher Education Act 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 August 9, 2022 to:

dekanat.statistik@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. Markus Pauly, Department of Statistics:

Tel: +49 231 755 - 90371

www.statistik.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.