



The Department of Computer Science at TU Dortmund University is offering the following positions (starting at the earliest opportunity):

Three professorships in the field of Machine Learning and Artificial Intelligence (Open Rank: W3 tenured or W2 with W3 tenure track)

The professorships are part of the Lamarr Institute for Machine Learning and Artificial Intelligence.

Our profile

TU Dortmund University comprises 17 departments in the natural and engineering sciences as well as the humanities and social sciences and is a dynamic university with a strong profile in research, teaching, promotion of young scientists and transfer.

The Department of Computer Science at TU Dortmund University is one of the largest in Germany and has particular strengths in research. Among similar institutions, it is distinguished by a combination of fundamental research on formal methods with the development of practical applications. Research focuses on Algorithmics, Data Science, Cyber-Physical Systems and Software and Service Engineering.

The Lamarr Institute, as a leading international center for Machine Learning, focuses on the value-based research and development of high-performance, trustworthy, and resource-efficient applications of Machine Learning and Artificial Intelligence (AI). It establishes internationally competitive research that sustainably strengthens Germany and Europe as leading locations for research, education, and technology transfer in AI. Along the central research paradigm of „Triangular AI“ (AI3), Lamarr scientists are laying the foundations for the next generation of Artificial Intelligence, which uses data, knowledge and context of intelligent systems on an equal footing.

Profile of the professorship

You represent the area of Machine Learning and Artificial Intelligence in research and further develop this at a top international level. The professorships are part of the Lamarr Institute and integrate research, teaching and transfer into the Institute's five core and five interdisciplinary research areas. Your potential research agenda includes: Foundations of Artificial Intelligence (AI), Theory of Deep Learning, Neuro-Symbolic AI, Explainable AI, Causality, Machine Learning (ML) and Logic, Fairness and Transparency of ML, Ressource Aware ML, Reinforcement Learning, Large-Scale Generative Models, Simulation-Based ML, Large Scale Optimization, Federated Learning or Future Applications of ML. Beyond this, you participate in research networks and cooperations in the Lamarr Institute as well as within and outside TU Dortmund University (e.g. Research Center Trustworthy Data Science and Security, Fraunhofer IML, Fraunhofer ISST, TU Dortmund Center for Data Science and Simulation (DoDaS)). You are committed to promoting early career researchers and participate appropriately in the teaching activities of the Department of Computer Science, especially concerning the areas of Machine Learning and Artificial Intelligence.

In the case of a 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 (*Gesetz über die Hochschulen des Landes Nordrhein-Westfalen, HG NRW*) are met.

Your qualifications

You obtained a doctorate with above-average success and acquired a post-doctoral lecture qualification (Habilitation) or an equivalent qualification. You demonstrated your research excellence in the field covered by the professorship through continuous international publications in recognized peer-reviewed venues. You also have experience in acquiring third-party funding. For the W3 professorships, continuous international publication achievements at a high level as well as a high international visibility of the scientific achievements, especially in the last five years, are expected.

Applicants for the W3 professorships can already demonstrate success in the independent competitive acquisition of third-party funding, including cooperative joint projects. All applicants have the potential for teaching excellence. Social and leadership skills and the willingness to participate in academic self-administration complete your profile. Moreover, the recruitment requirements in Sections 36 and 37 HG NRW apply.

Attractive research environment

We offer an excellent academic environment and attractive AI ecosystem with international, national and regional collaboration opportunities. A worldwide network of research partnerships as well as the network of German AI centers will allow the scientific exchange with leading AI experts. As part of the Lamarr Institute, you will not only have access to the immediate resources of TU Dortmund University, but will also be able to work intensively with the scientific, economic and societal partners of the top AI research institute. You will benefit from the unique research and organizational profile of the Lamarr Institute, which is characterized by the combination of fundamental- and application-oriented AI research. The metropolitan Ruhr Area with the University Alliance Ruhr (UA Ruhr), the Lamarr Fellowship Program and the Competence Platform KI.NRW also guarantee short distances to a diversity of partners from science and industry. With our Dual Career Service, we support your partner in finding professional opportunities in the region, if desired. We will be happy to provide information about housing and living in Dortmund and help you find childcare options. If you are coming to us from abroad, our Welcome Service will support you upon your arrival in Germany.

Diversity welcome

A central goal of TU Dortmund University is to promote diversity and equal opportunities. These values thus also lay the foundation for collegial interaction and the realization of research projects at the Lamarr Institute, whose denomination after the inventor Hedy Lamarr emphasizes this aspiration. 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. We support the compatibility of family and career and promote gender equality in academia and research.

Your application

If you are interested in the position, please send your application in English language via e-mail by 02.08.2023 to:

bewerbung@cs.tu-dortmund.de

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

berufung.tu-dortmund.de/en/application

Questions will be answered by the Dean of the Department of Computer Science:

**University Professor Dr.-Ing. Gernot A. Fink,
Tel. +49 231/755-6151 or
dekan.cs@tu-dortmund.de**

Further information about the Lamarr-Institut and the Department of Computer Science can be found at **lamarr-institute.org** and at **www.cs.tu-dortmund.de**