Otto-Friedrich-Universität Bamberg

The Chair of Explainable Machine Learning at the **Otto-Friedrich-Universität Bamberg** aims to fill, starting on 1 March 2027, **one position** as

Doctoral Student - Scientific Employee (m/f/d)
(Full-/or part time in "Entgeltgruppe" TV-L E 13)

or PostDoc - Scientific Employee (m/f/d)
(Full-/or part time in "Entgeltgruppe" TV-L E13)

The position is available for a term of 3 years (2 years for PostDoc) with the potential for extension.

The research conducted in the group is focused on machine learning methods that increase the reliability, data efficiency and generalization of neural networks in the context of specific applications (e.g., medical imaging, healthcare). The tangible benefits to the end-user or patient are the focus of the research and thus the interpretability and robustness of quantifiable results including uncertainty estimates of particular interest.

Possible Research Topics include:

- Robustness and generalization of neural networks / Outlier Detection / Anomaly Detection
- Data-efficient algorithms / Foundation Models / Representation Learning / Generative modelling
- Image and Video Understanding / VLMs
- Image Reconstruction / Segmentation / Object Detection / Evaluation of AI systems

Your role:

- Support of Research & Teaching efforts of the research lab (based on the ERBA campus)
- Independent, self-sufficient research of a specific research topic
- Publication of research results at renowned international conferences, e.g., CVPR, ICCV, ECCV, AAAI, MICCAI.

Your Profile:

- Excellent University degree (MSc or equivalent / PhD for PostDoc) with focus: machine learning, pattern recognition/deep learning, image/signal processing, applied mathematics, statistics or comparable
- Fluent in established programming language (e.g., Python, C++)
- Ability to work in a highly analytical, structured, and autonomous fashion
- Good communicator / Proficiency in English is required, in German helpful but not necessary
- PostDoc applications are expected to demonstrate a strong track record of published research

General:
The University of Bamberg is committed to increasing the proportion of women in research and teaching and therefore strongly encourages qualified women to apply. Applicants with disability (m/f/d) will have preference at otherwise equal qualification.
The University Bamberg was certified as being a family friendly university by the Hertie-foundation. The university focuses on the compatibility of family and career.

The position is suitable for part-time work, provided that the full-time execution of the duties is ensured through job sharing. If the tasks permit, a portion of the working hours can also be performed as remote work.

Application:
Please send your complete application including a brief letter of motivation, CV, transcripts, and optionally a research project proposal, publication record and contact details of two references. Please send your application electronically as a **single pdf** file to the email address below stating the earliest possible starting date.

Applications received until 20 December 2026 will be reviewed latest by 31 December 2026. After that applications will be reviewed until the position has been filled.

Contact: Prof. Dr. Christian Ledig (applications.xai@uni-bamberg.de)
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