

# Otto-Friedrich-Universität Bamberg



The Chair of Explainable Machine Learning at the **Otto-Friedrich-Universität Bamberg** aims to fill, starting on the next possible date, **two positions** as

**Doctoral Student - Scientific Employee (m/f/d)**

(Full-/or part time in "Entgeltgruppe" TV-L E 13)

**PostDoc - Scientific Employee (m/f/d)**

(Full-/or part time in "Entgeltgruppe" TV-L E13)

The positions are 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
- Data-efficient algorithms / Self-Supervised learning / Representation Learning
- Image Reconstruction / Segmentation / Object Detection
- Quantification of human anatomy from 3D medical imaging data
- 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
- Presentation of research results at national and international conference

**Your Profile:**

- Completed University degree (MSc or PhD for PostDoc) with focus: machine learning, pattern recognition, 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
- Proficiency in English is required, in German helpful
- PostDoc applications are expected to demonstrate a strong track record of published research

**General:**

The Otto-Friedrich-University Bamberg aims to increase the ratio of women in research and teaching and thus asks qualified women explicitly 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.

**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 mentioned below stating the earliest possible starting date.

Applications received until 15 February 2023 will be reviewed latest by 28 February 2023. After that applications will be reviewed until the positions have been filled.

**Contact:**

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