



Paderborn University is a high-performance and internationally oriented university. Within interdisciplinary teams, we undertake forward-looking research, design innovative teaching concepts and actively transfer knowledge into society. As an important research and cooperation partner, the university also shapes regional development strategies. We offer our employees in research, teaching, technology and administration a lively, family-friendly and equal opportunity environment, a lean management structure and diverse opportunities.

Join us to invent the future!

The **Faculty of Computer Science, Electrical Engineering and Mathematics**, the Department of Computer Science offers a

PhD position (f/m/d)

(Salary is according to E 13 TV-L)

This is a full-time position (100 %) starting as soon as possible. The position is limited until 30th of June 2025 and related to the Transregional Collaborative Research Center 318 "Constructing Explainability" of the Universities Paderborn and Bielefeld. The fixed-term period corresponds to the approved project within the meaning of the Wissenschaftszeitvertragsgesetz (WissZeitVG). The possibility of an academic qualification is given.

Within this collaboration, scientific work will focus on the development of co-constructing explaining AI-systems. The position's responsibilities fit in the individual project B01 on "A dialog-based approach to explaining machine learning models" with the data science group at Paderborn University. The group investigates research questions regarding white-box machine learning models based on description logics. The candidate is expected to contribute to the development of explainable artificial systems and to conduct innovative research on this topic aiming at publications on leading international conferences. The position is a perfect fit for a person interested in teamwork and research in an international group and at the same time passionate about exchanging across disciplines.

Responsibilities:

- Scientific work on knowledge graphs and machine learning contributing to the development of explainable artificial systems within the individual project B01
- Contributions on project's results to international conferences and written publications
- Participation in activities of the Integrated Research Training Group
- Networking within the Transregional Collaborative Research Center
- Interdisciplinary communication and cooperation

Essential Qualifications:

- Scientific Master's degree in computer science or a related area with very good grades
- Experience with knowledge graphs and machine learning
- Very good programming skills (Python or Java)
- Very good English skills

Since Paderborn University seeks to increase the number of female scientists, applications of female are especially welcome. In case of equal qualification and scientific achievements, they will receive preferential treatment according to the North Rhine-Westphalian Equal Opportunities Policy (LGG), unless there are co-gent reasons to give preference to another applicant. Part-time employment is generally possible. Likewise, applications of disabled people with appropriate qualification are explicitly requested. This also applies to people with equal status according to the German social law SGB IX.

Please send your application, including cover letter, your CV, certificates, and other accompanying documents via email (**reference 6432**) to mone@upb.de until the **17th of May 2024**.

Information on the processing of your personal data can be found at: <https://www.uni-paderborn.de/zv/personal Datenschutz>.

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