The Catholic University of Eichstätt-Ingolstadt (KU) is a non-state university under church leadership and officially recognized by the Free State of Bavaria. It is committed to strong research and excellent teaching and combines first-class study conditions with an international focus. Eight faculties offer a wide range of subjects for around 5,000 students. The University employs 900 people of different faiths and beliefs. Grounded in the Christian view of human life, the KU aims to create an academic and educational culture of responsibility.

The KU Faculty of Mathematics and Geography's research group Mathematics - Scientific Computing at the Mathematical Institute for Machine Learning and Data Science (MIDS) is seeking highly motivated candidates for a full-time position (100%)

Postdoctoral Researcher

with the earliest possible starting date, at the latest, however, on October 1, 2025, on the level of research associate or lecturer (Akademischer Rat auf Zeit) with initial contract duration of 3 years. The aim is to extend the employment contract for another three years after that. The place of work will be Ingolstadt. Provided that the requirements are met, remuneration in the private-law employment relationship will be according to the pay grade E 13 TV-L or A 13 if the requirements under German public service law are met. The possibility of writing a habilitation is provided.

The research group Scientific Computing of Prof. Götz Pfander works as part of the MIDS team on the development and mathematical analysis of methods in data science, in particular those based on harmonic and functional analysis. Focus topics include signal processing, information theory, sampling theory and bases of exponentials, time-frequency analysis, phase retrieval, quantization and machine learning.

Your tasks
- Mathematical research in the realm of the focus area of the group and MIDS as a whole
- Contribution to the current research projects of the group and support in the acquisition of new research projects
- Teaching of courses related to mathematics and Data Science in English, in particular in the context of the Data Science and Mathematics BSc and MSc programs. The ability to teach courses in German is desired.
- Knowledge transfer via publications and participation in conferences

Your profile
- PhD in mathematics, preferably with a focus on one of the following topics:
    - Applied Harmonic Analysis
    - Real and functional analysis
    - Machine Learning
    - Data Science and its applications
  The degree does not yet have to be complete at the date of application but must be completed at the latest when starting the position.
- Practical experience in programming is desired
- Good German language skills are not required but desirable as they allow to also teach mathematics courses that are offered in German.

Our offer
- Possibility to pursue own research agenda
- Possibility to gain teaching experience
- Interesting, responsible, and versatile range of tasks

- International work environment
- MIDS is an attractive, team-oriented, vibrant newly established university workplace

Your application

Please send your application with the usual supporting documents by e-mail to Prof. Dr. Götz Pfander (pfander@ku.de) by May 31, 2025 (please combine all documents in <u>one</u> PDF file). Applications received at a later date can still be considered until the appointment procedure is initiated.

Your application should contain the following documents:
- Cover letter
- Résumé
- List of three professors that can be contacted to obtain recommendations
- List of publications (if any)
- Scanned certificates of academic degrees (BSc, MSc, PhD, etc.), including list of courses taken and grades
- Electronic copy of (or the current draft of) the PhD thesis

All submitted application documents will be destroyed in accordance with data protection regulations after the hiring process has been completed.

Please note the KU's privacy policy for the application process. Corresponding information can be downloaded from the KU website at https://www.ku.de/en/the-ku/job-offers. By submitting your application, you confirm that you have taken note of the data protection information and the privacy policy.

All employees are obliged to acknowledge the nature and mission of the KU as stipulated in its Mission Statement and Foundation Charter. The University is therefore interested in receiving applications with relevant information in this regard. Other than that, there are no denominational requirements for employment at the KU.

The KU is committed to promoting equal opportunities (m/f/d) and aims to ensure that its members are able to balance work and family life. Candidates with severe disabilities who are equally suitable to other applicants will be prioritized.