

At the Professorship for **Mathematics of Machine Learning** at the Institute of Mathematics of the Julius-Maximilians-Universität Würzburg (JMU), a third-party funded position will be available from September 2024 in the DFG project **GeoMAR: Geometric Methods for Adversarial Robustness** as a

PhD Student in Mathematics of Machine Learning (f/m/d)

part-time (75%) for the 3-year project duration. The scientific qualification of obtaining a doctorate is desired and will be supported accordingly.

Your area of responsibility

- dedicated collaboration and active research in the project dealing with analytic and numerical aspects of adversarial robustness in machine learning.

Your profile

- intensive research interest in the field of Mathematics of Machine Learning,
- good technical knowledge in at least one of the areas of robust optimization, stability of neural networks, compression methods,
- very good knowledge of English, both written and spoken,
- independent working style, ability to work in a team and above-average motivation,
- programming skills in Python are an advantage.

Recruitment requirements

- completed university degree (Master's, Diplom or first state examination) in the field of mathematics.

What we offer

- an employment in accordance with the provisions of the TV-L
- an exciting research project, comprehensive mentoring and onboarding, a pleasant working atmosphere, and optimal working conditions,
- good conditions for balancing family, life and work as well as flexible working hours,
- opportunity for interdisciplinary scientific exchange through the PI's cooperation with the CAIDAS (Centre for Artificial Intelligence and Data Science).

JMU aims to increase the proportion of women in research and teaching and therefore strongly encourages applications from suitably qualified female scientists. Severely disabled applicants will be given preference if they are otherwise equally qualified.

Please send your informative application with the usual documents (in particular CV, motivation letter (approx. one page), certificates, completed scientific projects or theses) preferably as a single PDF file using the reference *GeoMAR* to

Prof. Dr. Leon Bungert, leon.bungert@uni-wuerzburg.de

who will also be available to answer any questions you may have about the position. Applications will be accepted immediately and until the position is filled.

Further information about the Professorship for Mathematics of Machine Learning

www.mathematik.uni-wuerzburg.de/machinelearning

Please only send copies. For reasons of cost, the application documents cannot be returned. They will be destroyed shortly after the selection procedure has been completed. If you enclose a self-addressed envelope, the application documents will be returned to you three months after the end of the selection procedure.

