



UNIVERSITÄT
BAYREUTH

The University of Bayreuth is a research-oriented university with internationally competitive and interdisciplinary profile fields in research and teaching. In the project "Network Embedding for Economic Questions" (KONECO) there is an **immediate** vacancy for a

Research Associate in the area of Artificial Intelligence (Post-Doc / PhD Student) (TV-L, E-13, 100%)

(The full-time position is limited to 3 years; with the possibility to do a PhD)

Your responsibilities:

- Application of embedding methods to formulate models from highly dynamic, complex data.
- Assessing how local characteristics of individual actors affect decisions of neighboring actors
- Close interdisciplinary collaboration with a scientist from the field of economics
- Participation in the development of a programming library for R and/or Python, which is aimed at users with little knowledge of algorithms and offers appropriate assistance.
- Participation in the development of a seminar format in which subject-specific theories and ways of thinking are taught and sensitivity to the challenges of the interdisciplinary cognitive process is created

Your profile:

- Successfully completed Master's degree in Computer Science or related disciplines.
- Desirable: Experience with Network Embedding, Neural Networks, Artificial Intelligence, Machine Learning
- Programming experience in Python / R / C++
- Willingness to work in an interdisciplinary team
- Willingness to deal with economic issues and data

What you can expect:

- Modern working conditions in a creative work environment
- Flexible working hours
- Company health management
- Constructive working atmosphere in a friendly, open-minded and international team
- Compatibility of family and career

The project:

About the project "Network Embedding for Economic Issues - Consideration of Contextual Factors and Structural Conditions in a Dynamic Framework" (KONECO):

The goal of the KONECO project is to reorient the way economic processes are viewed. A network-oriented interpretation of these processes allows on the one hand a much more intuitive understanding of the underlying processes and on the other hand grants a representative approach to evaluate the economic interactions in a profitable way.

As a basic methodological approach embedding methods will be applied. They allow the formulation of models from highly dynamic, complex data, which can be used, for example, to predict phenomena. Such models are intended to make the influence and effect of certain properties at the actor level tangible. The ultimate goal is to assess the extent to which local properties of individual actors can affect decisions of neighboring actors.

The project focuses on close interdisciplinary cooperation with a scientist from the field of economics. In order to consolidate the interdisciplinary knowledge process, a programming library for R and/or Python will be developed, which is aimed at users with little knowledge of algorithms and offers them appropriate assistance. In addition, a seminar format will be developed in which the respective subject-specific theories and ways of thinking will be conveyed, and which, based on this, will create a sensitivity for the challenges of the interdisciplinary cognitive process.

Apply until 30. November 2022:

Please apply online with relevant application documents until November 30th, 2022, indicating the password "KONECO": <https://www.stellenportal.uni-bayreuth.de/index.php?ctrl=papers&action=showEntity&entityid=119562>

For further inquiries, please contact:

Prof. Dr. Mirco Schönfeld, mirco.schoenfeld@uni-bayreuth.de , Ph: +49 921-55-4597

The documents will be deleted after the position has been filled in accordance with data protection requirements.

The University of Bayreuth values the diversity of its employees as an enrichment and is expressly committed to the goal of equal opportunities for men and women. Women are strongly encouraged to apply. Applicants with children are very welcome. The University of Bayreuth is a member of the Best Practice Club "Familie in der Hochschule e.V.", and has successfully participated in the HRK audit "Internationalization of the University". Persons with severe disabilities will be given preferential consideration if they are equally qualified.