



Leibniz-Institut
für Präventionsforschung und
Epidemiologie – BIPS

Job announcement

The Leibniz Institute for Prevention Research and Epidemiology – BIPS, Department Biometry and Data Management, offers a position as a

PhD student in Statistical Machine Learning

Salary scale 13 of the German public sector salary system (TV-L)

The position starts as soon as possible (administrative clearance permitting). The contract is initially limited to 3 years (extension possible), 39.2 hours/week (100% position). The position is generally suitable for part-time employment.

The Leibniz Institute for Prevention Research and Epidemiology – BIPS is one of the leading epidemiological research institutions in Germany and a member of the Leibniz Association. The position is in the Emmy Noether Junior Research Group: Beyond Prediction - Statistical Inference with Machine Learning, led by Marvin N. Wright. The research group develops machine learning methods with applications in epidemiology. The group cooperates with researchers from the University of Oxford, University of Copenhagen and Stanford University.

We seek an excellent, open-minded and team-spirited PhD candidate. We are looking for a person with a background in (bio-)statistics, mathematics, computer science or related disciplines who is interested in statistical aspects of machine learning and applications in epidemiology.

Responsibilities:

- Develop new (generative) machine learning methods and apply them to health data
- Participate in joint (international) research projects
- Publish and present research results
- Develop software packages
- Co-supervise bachelor and master students

Requirements:

- Master's degree (or equivalent) in (bio-)statistics, mathematics, data science, computer science or related disciplines
- Experience in statistics and/or machine learning
- Optional: First experience with generative models such as Generative Adversarial Networks (GAN), Variational Autoencoders (VAE) or Normalizing Flows (NF)
- Programming skills in R, Python, Matlab, C++, Java or similar
- Good command of spoken and written English
- Initiative, motivation, commitment, and scientific curiosity

We offer a structured PhD program, exciting research topics, a stimulating international environment, a good infrastructure, close ties to the University of Bremen and an engaged, supportive and cooperative team.

Disabled applicants will be given priority conditional on equal professional and personal qualifications. The Institute strives to promote its employees' work-life balance and has been certified for its family friendliness (audit "berufundfamilie"). We also offer additional support for international scholars to relocate to Germany through the Welcome Center of the UBremen Research Alliance.

Enquiries to: Prof. Dr. Marvin N. Wright, phone: +49 421 218 56 945

Additional information can be found on our homepage: <https://www.leibniz-bips.de/en>.

Please send your application in English or German with the usual documents quoting the **reference number A21/19** by **August 22, 2021** by e-mail as a single PDF file to: bewerbung@leibniz-bips.de.

Leibniz-Institut für Präventionsforschung und Epidemiologie – BIPS GmbH
Personalverwaltung
Achterstraße 30
28359 Bremen
Germany



UBremen
Research
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Welcome
Center

We kindly ask you not to submit any originals or folders, as we cannot return any applications for cost reasons. All supplied documents will be destroyed after the selection process.