Postdoctoral fellow (m/f/d) with expected full-time employment - E 13 TV-L HU (third party funding, limited for 2 years, with possibility to renew)

The Chair of Statistics at Humboldt-Universität zu Berlin is looking for a postdoctoral fellow within the recently established interdisciplinary research unit FOR 5363 "DeSBi - Fusing Deep Learning and Statistics towards Understanding Structured Biomedical Data" (Spokesperson: Professor Sonja Greven). The first funding period runs from 01/2023 to 12/2026. The postdoctoral position is initially for two years with the possibility of extension.

DeSBi
The research unit is funded as one of eight in the German Research Foundation's (DFG) AI call. It offers a special research environment at the interface between statistics, machine learning and biomedical applications. In the research group, experts from the field of machine learning and statistics with experience in biomedical applications work together to improve interpretability, uncertainty quantification and statistical inference for Deep Learning and to increase the flexibility of statistical models for structured data. The methods are being developed in close feedback with biomedical applications that collect structured data such as images, gene sequences or time series in high-frequency measurements and require not only good predictions but also uncertainty quantification, adjustment for confounding variables and tests of hypotheses with statistical error control, thus integrating Deep Learning and statistical methods. DeSBi is a joint project of researchers from HU Berlin, TU Berlin, Charité, University of Potsdam, Hasso Plattner Institute, Max Delbrück Center for Molecular Medicine and Fraunhofer Heinrich Hertz Institute. More information at https://www.wiwi.hu-berlin.de/en/news/news/dfg-funds-ai-research-unit and https://desbi.de/.

The postdoctoral fellow is a member of the research unit and the Chair of Statistics at Humboldt-Universität zu Berlin (Prof. Dr. Sonja Greven, https://hu.berlin/sg). We offer integration into a lively and interdisciplinary team, family-friendly working hours, an excellent research environment and the opportunity to help shape the development of an increasingly important field of research. We support career development through opportunities for further training and mentoring.

Job description:
- teaching and research in an area related to the topics of the Chair of Statistics (such as e.g. functional data analysis, object data analysis including curves, shapes, densities or networks, or flexible regression models) and/or the research unit (such as e.g. statistical inference for machine learning, interpretable hybrid models or improving explanations for deep learning)
- presentation of the results at international conferences and in journal publications
- active participation in the activities of the Chair of Statistics and of the research unit

Requirements:
- completed university studies and PhD in Statistics, Mathematics, Computer Science or related field with specialisation in Statistics, Data Science or similar
- good teaching skills and experience
- strong interest in joint research in an area related to the Chair of Statistics and/or the research unit, and in interdisciplinary collaborations
- publication track record
- programming experience
- proficiency in the English language
- good communication skills

Please send your application (including a motivation letter, an academic curriculum vitae, relevant certificates and contact information for two academic references) and quoting the reference number DR/114/22 and the subject "Postdoc in Statistics" to: Humboldt-Universität zu Berlin, School of Business and Economics, Prof. Dr. Sonja Greven, Unter den Linden 6, 10099 Berlin, or preferably by email in one pdf file (no larger than 10 MB) to sonja.greven@hu-berlin.de until 19.10.22. Further enquiries can also be addressed to her.
The Humboldt-Universität zu Berlin is seeking to increase the proportion of women in research and teaching, and specifically encourages qualified female scholars to apply. Severely disabled applicants with equivalent qualifications will be given preferential consideration. People with an immigration background are specifically encouraged to apply. Since we will not return your documents, please submit copies in the application only.

Data protection information on the processing of your personal data in the context of the tender and selection procedure can be found on the homepage of Humboldt-Universität zu Berlin: [https://hu.berlin/DSGVO](https://hu.berlin/DSGVO).

Please visit our website [www.hu-berlin.de/stellenangebote](http://www.hu-berlin.de/stellenangebote), which gives you access to the legally binding German version.