

Research Fellow (f/m/d)

- for the part-time PhD on the topic: Spatio-temporal Statistics for the Energy Transition and Transport / part-time 75% -

Job description

The Scientific Computing Center is the Information Technology Center of KIT.

The newly established Research Group Methods for Big Data at Scientific Computing Center is the Information Technology Center of KIT welcomes applications for a research assistant within the Collaborative Research Center (CRC) TRR 391 "Spatio-temporal Statistics for the Energy Transition and Transport" in cooperation with the Ruhr University Bochum in the newly approved Transregio (TRR) 391, statistical methodologies are being developed to model and forecast data on the energy and mobility transition.

The position is assigned to the newly founded Collaborative Research Center (SFB) TRR 391 "Space-time statistics for the energy energy transition and transportation", which is funded by the German Research Foundation (DFG). As part of the project, a further Bochum, which will be jointly supervised by Prof. Dette (Bochum) and Prof. Klein (Karlsruhe).

In this project you will:

- develop novel methods that leverage the potential of statistical testing and Bayesian statistics to induce sparse yet flexibly varying dependence structures between multiple outcomes that are observed over space and time
- investigate of theoretical properties of the developed methods
- implement and test the models
- public of the results at workshops and conferences

This position offers the possibility to acquire a PhD degree. Details on the research group can be found at <https://kleinlab-statml.github.io/> (<https://kleinlab-statml.github.io/>)

Personal qualification

Job requirements:

- you hold a degree (Master's level) with a focus on statistics or data science or alternatively mathematics, computer science, economics, or related programs (with a focus on statistics or data science).
- Basic knowledge and initial experience with flexible regression methods, Bayesian statistics, Copulas or statistical testing
- Solid programming skills in any scientific programming language, e.g. Python, R
- Strong computational, mathematical skills
- High proficiency in English, both written and spoken for your scientific publications and presentations
- High degree of creativity, commitment, analytical competence, and interdisciplinary teamwork

We offer you an exciting and varied job within an agile team as well as a wide range of training opportunities and flexible and family-friendly working time models. For more information about SCC as your new work home, please visit <https://www.scc.kit.edu/en/aboutus/working-at-scc.php> (<https://www.scc.kit.edu/en/aboutus/working-at-scc.php>)

We are looking forward to your application (Motivations letter / CV / Certificates)!

Salary

Salary category 13, depending on the fulfillment of professional and personal requirements.

Organizational unit

Scientific Computing Center (SCC)

Starting date

01.10.2024

Contract duration

fixed term until 30.06.2028

Application up to

19.08.2024

Contact person in line-management

For further information, please contact Prof. Dr. Nadja Klein,
kleinlabtrelo@gmail.com (mailto:kleinlabtrelo@gmail.com).

Application

Please apply **online** using the button below for this vacancy number 365/2024 .
Personnel Support is provided by

Mr Meschar

phone: +49 721 608-25029,

Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany

We prefer to balance the number of employees (f/m/d). Therefore we kindly ask female applicants to apply for this job.

Recognized severely disabled persons will be preferred if they are equally qualified.

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