We are offering a PhD position in Bayesian statistical learning the Methods for Big Data group at the Scientific Computing Center (SCC) of the Karlsruhe Institute of Technology (KIT).

The PhD student will be supervised by Prof. Dr. Nadja Klein. More information about the research group is available at https://www.kleinlab.de/

In this project, you will:

- Develop novel Bayesian statistical methods for (deep) distributional regression and for models with high-dimensional interactions.
- Implement these methods in efficient, well-documented software
- Investigate the theoretical properties of the proposed methods
- Contribute to joint research within the group
- Publish your results in leading journals and present them at workshops and conferences

Qualifications and requirements:

- A completed Master's degree in statistics, mathematics, computer science or a related field, with excellent grades
- Solid mathematical skills
- Experience with Bayesian statistics and its computational aspects
- Strong programming skills in at least one scientific programming language
- Experience with at least one of the following: dependent data modelling (e.g. time series, spatial data), copula modelling, change point detection, missing data, or theoretical analysis of Bayesian models
- Excellent written and spoken English
- A strong interest in research, together with creativity, critical thinking and the ability to work in a team

To apply, please email a single PDF containing your CV, transcripts, a motivation letter and the contact details of referees for a reference letter to nadja.klein@kit.edu. Applications will be considered on a rolling basis until the positions are filled. Only shortlisted candidates will be contacted.