

Post-Doc position in Statistics with a focus on probabilistic graphical models and causal inference

A post-doc is available in the newly established group of Prof. Dr. Giusi Moffa at the Department of Mathematics and Computer Science, University of Basel.

Research topic

The focus of the group will be on probabilistic graphical models and causal inference. Current research focuses on both computational and inferential aspects. In particular we plan to develop novel algorithms for structure learning of Directed Acyclic Graphs (DAGs) in the context of mixed data, as well as hybrid learning methods which consider different measures of independence for the constraint-based part of the algorithm, so as to handle non-linear relationships. From an inferential and interpretation perspective, we are working on the Bayesian estimation of putative intervention effects from causal DAGs. Applications may cover clinical research, epidemiology, cancer genomics and precision medicine. Please visit my research page for more information about the projects

<https://anmlia.github.io/jacademia/jresearch/>

Candidate profile

- PhD in Statistics or closely related field
- A solid knowledge of statistical theory and methods
- Strong computational and programming skills
- Experience with statistical softwares (ideally R)
- Team spirit as well as the ability to work independently
- Fluent in English with good writing skills

Offer

The position is initially offered for one-year, with the possibility of extension for up to another 18 months. Starting date is as soon as possible upon agreement.

Application / Contact

For further information please contact Prof. Dr. Giusi Moffa (giusi.moffa@unibas.ch), and if you are interested, please send your CV, including academic records and publications, together with a cover letter and the names and e-mail addresses of two referees.

Applications will be evaluated on a rolling basis starting from September 1st 2019.