

PhD position in Graph Databases, Queries, and Graph Analytics

One PhD position is available in **graph databases, query processing and graph analytics** methods for **knowledge graphs and information networks**. The position is offered in the Data Science and Data Engineering group at the University of Bonn led by Professor Emmanuel Müller (<http://data.bit.uni-bonn.de/>) in co-supervision with Professor Davide Mottin (<https://mott.in>) from Aarhus University. The PhD position is accompanied with German public sector salary (TV-L E13) and immediately available.

The position offers a unique opportunity for joint and collaborative research with renowned researchers on an international level. Both groups have long-lasting and successful collaborations and aim to extend these collaborations further with an additional PhD student that works on a joint research project starting in September 2019.

Tasks

- Development of new concepts and algorithms for graph database, query processing, and graph analytics
- Collaborations with industrial partners in interdisciplinary research projects
- Publication and presentation of scientific results at top international conferences

Qualifications

- Excellent master degree in computer science, physics, mathematics or similar
- Good knowledge in linear algebra, statistics and programming languages
- Experience in machine learning, graph databases or query processing is a plus
- High proficiency in spoken and written English on the level of scientific publications

About the position and the environment

The perspective PhD student will work in tight collaboration with Professor Davide Mottin (Aarhus University) and Professor Emmanuel Müller (University of Bonn). The student will be hosted at University of Bonn and visit Aarhus University for limited periods. Both universities have renowned researchers in information systems, machine learning, and graph mining. Both offer excellent research and teaching activities in cooperation with local and global industrial partners and with research and development via Fraunhofer institutes. Through the unique location in Rhineland, PhD students will enjoy an exceptional work/life environment.

If you have prior experience in these areas, you are invited to submit your **curriculum vitae**, a **motivation letter** highlighting your **research interests in at least two of our recent publications**, and names and contact information for two references to both:

davide@cs.au.dk and office-mueller@bit.uni-bonn.de