



## 12 Research Assistants/Associates in the post graduate program “Uncertainty and Randomness in Algorithms, Verification and Logic (UnRAVeL)”

**Context.** The RWTH Aachen University is looking for enthusiastic and highly qualified doctoral researchers. 12 positions are available within the interdisciplinary Research Training Group (RTG) UnRAVeL founded by Deutsche Forschungsgemeinschaft (DFG). The key emphasis of an RTG is on the qualification of doctoral researchers with a focused research program and a structured training strategy. The RTG UnRAVeL aims to significantly advance probabilistic modelling and analysis for uncertainty by developing new theories, algorithms, and tool-supported verification techniques, and to apply them to core problems from security (e.g., probabilistic protocols), planning (robotics and railway engineering), and safety and performance analysis (railway systems). To tackle these research challenges, theoretical computer scientists from computer-aided verification, logic and games, algorithms and complexity, together with experts from management science (robust optimization), applied computer science (robotics and security), and railway engineering intensively cooperate within the RTG UnRAVeL.

**Required profile.** Candidates must have (or soon obtain) a master degree in Computer Science, Mathematics or related area and have completed their studies with excellent grades. You should have interest in performing original, highly competitive scientific research, publishing your results in top conferences and scientific journals. Self-motivation and the ability to work both independently and as a team player in local and international research groups are expected. Fluency in English is required; proficiency in German is helpful but not compulsory.

**How to apply?** Your written application should contain:

- a curriculum vitae
- a transcript of records (list of courses and grades)
- a cover letter including a statement of interest in (some of) the RTG topics that can be found on our web-site (see below), and
- a recommendation letter e.g., by your master thesis supervisor(s).

All documents should be formatted as a single pdf-file. You should send your application ultimately by July 14, 2017 (AoE) to the e-mail address: [unravel-appl@cs.rwth-aachen.de](mailto:unravel-appl@cs.rwth-aachen.de)

**What do we offer?** We offer a stimulating international research environment, the possibility to participate in highly competitive and interdisciplinary research and the opportunity to involve students in your research through project work. Doctoral researchers have a status as employee with a salary according to the German federal employee scale TV-L E13; the exact salary is subject to your family situation. The duration of the positions is three years. RWTH Aachen University offers excellent facilities for professional and personal development. Starting date of the positions: as soon as possible from October 1, 2017 on.

More information about the RTG UnRAVeL can be found at: [www.unravel.rwth-aachen.de](http://www.unravel.rwth-aachen.de)

Enquiries can be directed to Prof. Joost-Pieter Katoen (e-mail: [katoen@cs.rwth-aachen.de](mailto:katoen@cs.rwth-aachen.de)).

RWTH Aachen University is certified as a “Family-Friendly University”. We particularly welcome and encourage applications from women, disabled persons and ethnic minority groups, recognizing they are underrepresented across RWTH Aachen University. The principles of fair and open competition apply and appointments will be made on merit.