

Stefan Neumann

Curriculum Vitae

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PhD student in Theoretical Computer Science at University of Vienna supervised by Monika Henzinger. My research interests are algorithms and lower bounds for dynamic graph problems. I also like data mining.

Research Interests

- Dynamic graph algorithms
- Sensitivity data structures
- Data Mining
- Cell-probe lower bounds
- Conditional lower bounds

Education

Since 2016 **PhD student in Computer Science**, University of Vienna, Austria.

Advisor: Prof. Dr. Dr. h.c. Monika Henzinger

Since 2016 **Member of the Vienna Graduate School of Computational Optimization.**

2014–2015 **PhD student in preparatory phase**, Saarbrücken Graduate School of Computer Science.

2013–2015 **Master of Science**, Max Planck Institute for Computer Science and Saarland University, Germany.

Computer Science with emphasis on algorithms and data mining

2010–2013 **Bachelor of Science**, Friedrich-Schiller-University Jena, Germany.

Mathematics with emphasis on stochastic processes and algorithms

Employment

Since 2016 **Research and Teaching Assistant**, University of Vienna.

2014–2015 **Research Assistant**, Max Planck Institute of Computer Science.

2011–2014 **Software Developer**, Evaluation Project of Friedrich-Schiller-University Jena.

Grants and Awards

2016 Travel Grant ADFOCS Summer School

2015 MSc in Computer Science from Saarland University awarded *with distinction*

2014–2015 Scholarship from Saarbrücken Graduate School of Computer Science

Teaching

winter 2016 *Mathematical Foundations of Computer Science 1*, tutor

Scientific Activities

- talks *What You Will Gain By Rounding: Theory and Algorithms for Rounding Rank*, ICDM 2016
Incremental and Fully Dynamic Subgraph Connectivity For Emergency Planning, ESA 2016
- summer schools ADFOCS Summer School 2016 on Distributed Computing at Max Planck Institute
- Reviewer ESA 2016, ICALP 2016
- Conferences ICDM 2016, ESA 2016, HALG 2016, ECMLPKDD 2014

Publications and Manuscripts

Accepted Papers

- [1] Monika Henzinger, Anrea Lincoln, Stefan Neumann, and Virginia Vassilevska Williams. Conditional hardness for sensitivity problems. In *ITCS*, 2017.
- [2] Monika Henzinger and Stefan Neumann. Incremental and fully dynamic subgraph connectivity for emergency planning. In *ESA*, 2016.
- [3] Stefan Neumann, Rainer Gemulla, and Pauli Miettinen. What will you gain by rounding: Theory and algorithms for rounding rank. In *ICDM*, 2016.
- [4] Stefan Neumann and Andreas Wiese. This House Proves That Debating is Harder Than Soccer. In *FUN*, 2016.