

David Schoch

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Born: August 1, 1986 – Villingen-Schwenningen, Germany
Nationality: German

Current Position

since 11/2015 **Post Doctoral Researcher** *Department of Computer & Information Science,
University of Konstanz*

Education

2012-2015 **PhD in Computer Science**, *University of Konstanz, Germany.*
Fellowship at the Graduate School of Decision Sciences

2006-2012 **Diploma in Business Mathematics**, *Karlsruhe Institute of Technology, Germany.*

PhD thesis

Title *A Positional Approach for Network Centrality* (“summa cum laude”)
Supervisors Prof. Ulrik Brandes, Prof. Niels Weidmann, Prof. David Krackhardt

Diploma thesis

Title *Die Modularität als Gütemaß zum Clustern von Graphen*
Supervisors Prof. Wolfgang Gaul

Fellowships

11/2012-09/2015 Fellowship at the Graduate School of Decision Sciences, University of Konstanz

Skills

Development R, Python, Matlab, Bash Tools

Data various web scraping tools

Acquisition

Scientific Methods for network analysis, network modeling and network dynamics, statistical analysis and visualization of data

Languages

German **Native**
English **Fluent**
French **Conversational Level**
Spanish **Beginner**
Swedish **Beginner**

Publications

Ulrik Brandes and David Schoch. Centrality-lethality hypothesis lacks support. *working paper*, 2016.

David Schoch and Ulrik Brandes. Centrality as a predictor of lethal proteins: Performance and robustness. *MMB & DFT 2014*, page 11, 2014.

David Schoch and Ulrik Brandes. Re-conceptualizing centrality for social networks. *submitted*, 2015.

David Schoch and Ulrik Brandes. Stars, neighborhood inclusion, and network centrality. In *SIAM Workshop on Network Science*, 2015.

Conference Talks

- 06/2015 "Reasoning About Many Centrality Indices At Once", XXXVI Sunbelt Conference of INSNA, Brighton, England
- 05/2015 "Stars, Neighborhood Inclusion, and Network Centrality", SIAM Workshop on Network Science, Utah, USA
- 07/2014 "Centrality Indices and a Class of Uniquely Ranked Graphs", 1st European Conference on Social Networks, Barcelona, Spain
- 03/2014 "Centrality as a Predictor of Lethal Proteins", SOcNET & FGNET, Bamberg, Germany
- 02/2014 "Centralities are Necessarily Correlated in Core-Periphery Networks", XXXV Sunbelt Conference of INSNA, St. Petersburg, USA
- 08/2013 "Centrality in Protein Interaction Networks", ASNA, Zurich, Switzerland

Teaching

Winter 2015 Teaching Assistant for Network Dynamics, University of Konstanz
Winter 2014 Teaching Assistant for Network Dynamics, University of Konstanz
Sommer 2014 Teaching Assistant for Network Analysis, University of Konstanz
Winter 2013 Teaching Assistant for Network Modeling, University of Konstanz