

Daniel Suess

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Education

- Aug 2015 – **Doktoral candidate**, *University of Cologne*, Germany.
◦ Adviser: Prof. Dr. David Gross
- 2014 – 2015 **Doktoral candidate**, *University of Freiburg*, Germany.
◦ Adviser: J.-Prof. Dr. David Gross
- 2010 – 2013 **Diploma in Theoretical Physics**, *Technische Universität Dresden*, Germany.
◦ Final grade: 1.0 (passed with distinction)
◦ Thesis title: *Hierarchy of Quantum Trajectories applied to Photosynthetic Complexes*
◦ Adviser: Prof. Dr. Walter T. Strunz
- 2008 – 2010 **Intermediate Diploma**, *Technische Universität Dresden*, Germany.
◦ Grade: 1.1

Experience

- Apr – Jul 2014 **Researcher in the group of A. Eisfeld**, *Max Planck Institute for the Physics of Complex Systems*, Dresden, Germany.
◦ Topic: Simulation of open quantum systems in bosonic and fermionic environments

International

- Jan – Mar 2014 **Visiting researcher in the group of H. Wiseman**, *Griffith University*, Brisbane, Australia.
◦ Topic: Stochastic simulation of open quantum systems and quantum feedback.
- 2004 – 2005 **Student exchange**, *Reeltown Highschool*, USA.

Teaching

- 2016 **Teaching Assistant**, *Institute of Theoretical Physics, University of Cologne*, Germany.
◦ Pre-study course: “Mathematical Methods for Physicists: Analysis”
- 2015 – 2016 **Teaching Assistant**, *Institute of Theoretical Physics, University of Cologne*, Germany.
◦ 1st semester course: “Mathematical Methods”
- 2014 – 2015 **Tutor**, *Institute of Theoretical Physics, University of Freiburg*, Germany.
◦ 1st and 2nd semester course: “Classical Mechanics”
- 2010 – 2013 **Tutor**, *Institute for Analysis, TU Dresden*, Germany.
◦ 3rd and 4th semester courses “Mathematics for Physicists”
◦ Subjects taught: ordinary and partial differential equations, theory of distributions, functional analysis, and complex analysis
- 2009 – 2010 **Tutor**, *Institute for Analysis, TU Dresden*, Germany.
◦ 1st semester course “Mathematics for Civil Engineering, Water Management, and Waste Management”

Scholarships

2014 **PROMOS**, DAAD (German Academic Exchange Service).
Partial scholarship to promote visit to Griffith University.

Languages

Self-assessment European level CEFR (C2 maximum evaluation)

German Mother Tongue

English Fluent (C2)

French Beginner (A1)

Computer Skills

- Programming
- Extensive working knowledge in *Python*, *Fortran*, and *C++*.
 - Familiarity with *R*, *Haskell*, *Bash*, *HTML*, *CSS*, *JavaScript*, *SQL*, *PHP*, etc.
 - Practical experience with development tools (e.g. *git*, *make*, *scons*).
 - Working knowledge in high performance computing techniques (especially shared and distributed parallel computing).
- Presentation
- Proficiency in \LaTeX and in the creation of scientific plots.
- Experience
- Working knowledge of Linux (extensive), OS X (extensive) and Windows (good).
 - Administrator of the group's computers at TU Dresden, University of Freiburg, and University of Cologne
 - IT consulting for the group at University of Cologne