
Education

- Aug 2015 – **Doctoral candidate**, *University of Cologne*, Germany.
◦ Adviser: Prof. Dr. David Gross
- 2014 – 2015 **Doctoral 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 **Tutor**, *Institute of Theoretical Physics, University of Cologne*, Germany.
◦ Seminar: "Disentangling quantum matter with quantum information theory"
◦ supervised talk on "Hamiltonian Complexity"
- 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.

Conference Presentations

- April 2016 **Spring Meeting of the Rhineland Quantum Information Network**, *University of Cologne, Germany.*
Talk: *Optimal error regions for quantum state estimation.*
- Mar 2016 **DPG Spring Meeting**, *Leibniz Universität Hannover, Germany.*
Talk: *Characterising linear optical circuits using phaseless estimation techniques.*
- Jan 2016 **Quantum Information Processing**, *Banff Centre, Canada.*
Poster: *Characterising linear optical circuits using phaseless estimation techniques.*
- Dez 2015 **2. International Matheon Conference on Compressed Sensing and its Applications**, *TU Berlin, Germany.*
Poster: *Characterising linear optical circuits using phaseless estimation techniques.*
- Mar 2013 **DPG Spring Meeting**, *Leibniz Universität Hannover, Germany.*
Poster: *Energy transfer dynamics in structured environments.*

Languages

Self-assessment European level CEFR (C2 maximum evaluation)

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|---------|---------------|
| German | Mother Tongue |
| English | Fluent (C2) |
| French | Beginner (A1) |

Publications

- D. Suess, W. T. Strunz, A. Eisfeld: *Hierarchical equations for open system dynamics in fermionic and bosonic environments*, J. Stat. Phys. 159, Issue 6, pp 1048–1423 (2015) (arXiv:1410.0304)
- G. Ritschel, D. Suess W. T. Strunz, A. Eisfeld: *Non-Markovian Quantum State Diffusion for temperature-dependent linear spectra of light harvesting aggregates*, J. Chem. Phys. 142, 034115 (2015) (arXiv:1409.1091)
- D. Suess, A. Eisfeld, W. T. Strunz: *Hierarchy of stochastic pure states for open quantum system dynamics* Phys. Rev. Lett. 113, 150403 (2014) (arXiv:1402.4647)