



## Mathematics M.Sc.

Current Position: Integrated PhD Student in Statistical Applied Mathematics at University of Bath

Born: 03/04/1994 in Mainz, Germany

Nationality: German

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## Education

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- University of Bath, UK** – Integrated PhD in Statistical Applied Mathematics **Since 09/2020**
- Focus: Stochastic Control Theory; Expected graduation: 09/2024
  - MScRes Courses: Mathematics of Machine Learning; Financial Mathematics; Stochastic Systems
- University of Cologne** – Master of Science in Mathematics and Informatics **04/2018 – 07/2020**
- Final grade: 1.0 (GPA: 3.91/4.00)
  - Selected Courses: Data Analysis; Stoch. Calculus in Finance; Machine Learning; Graph Theory
  - Master's Thesis: "A Criterion for Non-Ultrasmallness in Scale-Free Networks";  
Supervisor: Prof. Dr. P. Mörters
- University of Florida, US** – Exchange programme, Mathematical Economics B.Sc. **08/2016 – 12/2016**
- Isolated degree: 1.0 (GPA: 4.00/4.00)
  - Selected Courses: Complex Analysis; Topology; Management; Programming in JAVA
- University of Mannheim** – Bachelor of Science in Mathematical Economics **08/2014 – 10/2017**
- Final grade: 1.4 (GPA: 3.57/4.00)
  - Selected Courses: Stochastic Simulation; Stochastic Processes; Dynamical Systems; Finance
  - Bachelor's Thesis: "Bayesian Statistics and the Metropolis-Hastings Algorithm";  
Supervisor: Prof. Dr. L. Döring
- St. Lioba Schule Bad Nauheim** (classes 5-10), **Burggymnasium Friedberg** (11-13) **08/2004 – 07/2013**
- General qualification for university entrance (Abitur); final grade: 1.3

## Professional Experience

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- University of Cologne, Cologne, GER** **09/2018 – 02/2019**
- Lecturer and Tutor
- Led two self-coordinated tutoring classes in *Introduction to Stochastics* as well as a weekly refresher course; Designed and graded exercise sheets and final exams
- d-fine GmbH, Frankfurt am Main, GER** **11/2017 – 03/2018**
- Business Consultancy Internship
- Theoretically conceptualized and implemented machine learning algorithm for major energy company that calculates *Hourly Price Forward Curve* under consideration of renewable sources
  - Autonomously analyzed and evaluated different methods; self-reliantly coached the client's middle-management in techniques and procedures during several workshops
- University of Mannheim, Mannheim, GER** **01/2017 – 09/2017**
- Coordinator and Tutor **08/2015 – 01/2016**
- Selected as one of two math students to coordinate and synchronize all tutoring classes for *Stochastic Simulations* (2017)
  - Designed and graded exercise sheets as well as programmed simulations and models of real-life structures such as queuing systems and communication networks using *Scilab*
  - Planned and gave exercise lectures for *Advanced Calculus* (2015/16)
  - Guide and advisor for new students by offering an intensive refresher course; led a self-coordinated tutoring class



## Extracurricular Activities

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- International Volunteer HQ** (Cape Town, South Africa) **09/2018 – 10/2018**  
Volunteer Abroad Program
- Four-week voluntary work as high school math teacher in Muizenberg; Organized social events
- Visum of ESN International** (University of Mannheim) **01/2017 – 09/2017**  
International students' guide
- Mentored new students from Toronto, Canada and helped them get adapted and involved at University of Mannheim; organized social events and city tours
- Faculty Improvement Committee** (University of Mannheim) **01/2016 – 07/2016**  
Students' representative and spokesperson
- Conceptualized, carried out and evaluated questionnaires that aimed to improve the Business Mathematics' faculty and resulted in implementation of new Masters' programme
  - Officiated as students' representative and intermediary in the process
- Ngapuhi iwi** (Ngawha Springs, NZ) **02/2014 – 04/2014**  
Voluntary worker in Maori tribe
- Participated in the cultural exchange program WWOOF during gap year (07/2013 – 06/2014)
  - Carried out organizing and coordinating responsibilities for the *Whangarei Artisans Fair* and the *Waitangi Weekend* including performing traditional haka-dances and preparing hangi dishes
- WAKO Germany** (Kickboxing Club Rommelhausen) **01/2012 – 06/2013**  
Kickboxing instructor and tournament supervisor
- Taught classes and supervised tournaments for children aged six to fifteen

## Awards and Honour-Programmes

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- McKinsey & Company**, Cologne, GER **Since 15/05/2018**  
Member of McKinsey Firsthand Programme
- Mentoring programme for academia and profession; accepted for distinguished academic career
- University of Mannheim**, Mannheim, GER **30/10/2017**  
Bachelor's Degree with Honours in Mathematical Economics
- Awarded for one of top 24 overall grades of previous three graduate year groups
- German Physical Society**, Bad Honnef, GER **22/06/2013**  
DPG-Bookaward 2013
- Award for outstanding achievement in Abitur examination in physics

## Additional Information

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- Languages German (native); English (fluent); French (good command)
- Certifications Bloomberg Market Concept Certificate (2016); WAKO Tournament Supervisor (2013)
- Computing Advanced skills in Python, VBA, SQL, RStudio, MATLAB, Stata
- Interests Running; Tennis; Rock climbing; Kickboxing; Backpacking