

EDUCATION

- Technical University of Munich – Mathematics (Ph.D.)** since 11/2023
- TUM TopMath Ph.D. Program – part of the Elitenetzwerk Bayern and the TUM Graduate School
 - Advised by Prof. Kühn (TU Munich, Stochastic Dynamics)
 - Research interests: Dynamical Aspects of (singular) Stochastic PDEs, Rough Paths & Regularity Structures, Equivariant and Geometric Methods
- Technical University of Berlin – Visiting Research Student** 04/2022 – 10/2022
- Research project „Towards Abstract Wiener Model Spaces” with Peter Friz: an extension of the classical theory of Abstract Wiener Spaces to the general framework of Rough Paths and Regularity Structures & applications to large deviation principles, Fernique estimates, and Cameron—Martin theorems
 - Attended courses, seminars, and research seminars at TU Berlin, HU Berlin, and FU Berlin: Malliavin Calculus, CFT, Gaussian Free Fields, SPDEs
 - Assisted with teaching Probability Theory III/Stochastic Processes II: suggesting and preparing exercises and solutions for weekly problem sheets, answering students’ technical questions by email and during office hours, co-hosting tutorial sessions once per week
- Technical University of Munich – Mathematics (M.Sc.)** 10/2021 – 01/2024
- TUM TopMath Ph.D. Program – part of the Elitenetzwerk Bayern and the TUM Graduate School
 - Advised by Prof. Gantert (TU Munich, Probability Theory), Prof. Kühn (TU Munich, Stochastic Dynamics), Prof. Friz (TU Berlin, Rough Analysis)
 - Primary interests: Stochastic Analysis, Stochastic Dynamics, SPDEs, Rough Paths & Regularity Structures
 - Secondary interests: Geometry and Theoretical High Energy Physics
 - Average Grade: 1.0
- Ludwig Maximilians University Munich – Philosophy (B.A.)** since 10/2023
- Primary interests: Metaphysics, Existentialism, Ontology
 - Current Average Grade: 1.8
- Technical University of Munich – Mathematics (B.Sc.)** 10/2018 – 10/2021
- Focus on (Algebraic) Topology, Functional Analysis, Stochastic Analysis; Minor in Economics, focussing on Financial Markets
 - Completed 45+ ECTS more during B.Sc. than required for the degree, primarily in the form of graduate level courses and seminars
 - Average Grade: 1.6
- HTL Mödling (Austrian Engineering School) – Diploma in Construction Engineering** 09/2012 – 06/2017
- Graduated with highest honours: “Ausgezeichneter Erfolg” in finals (Reife- und Diplomprüfung/Matura)
 - Diploma thesis: “Problems in Structural Analysis and Material Science” (see website), graded with 1.0

EMPLOYMENT/INTERNSHIPS

- Technical University of Munich – Department of Mathematics** since 04/2021
Teaching Assistant
- 3x Stochastic Analysis, 2x Graduate Probability Theory, 1x Introduction to Probability and Statistics, 1x Markov Chains
 - Prepared and held 90 minute tutorial session once per week, corrected and graded homework of ~60 students per week, designed problem sheets and final exams, and answered students technical questions by email, during office hours, and during class
- Technical University of Munich – Department of Educational Sciences** 10/2022 – 02/2023
Student Research Assistant
- Assisted in the planning, organization, and execution of the “Digital tools for didactics in probability theory” project week, in which Lehramt students use R and GeoGebra to create visualizations and animations of concepts from stochastics and statistics for use in the classroom with high school students
 - Drafted instructions and developed material and sample projects for students to implement during the project week
 - Assisted students with the implementation of digital tools in R/RShiny
- Technical University of Munich – English Writing Centre (EWC)** 08/2021 – 10/2022
English Writing Fellow and Teaching Assistant
- Ca. 8 appointments/week with M.Sc. and Ph.D. student of all TUM departments, going over their writing and improving the communication of their research - particular focus was put on clear and precise exposition by the principles of classical style
 - Creating handouts and resources for the EWC e.g. “Clear and Effective Mathematical Writing”
 - Teaching Assistant for Thesis Writing Workshop (C2 level): a lecture course designed to improve the English writing skills of TUM students and prepare them for their thesis. Graded and gave feedback on writing assignments and lead group sessions with students

VOLUNTEERING & ACTIVITIES

- Boxt Euch Durch München gUG** since 09/2021
- Tutoring and providing guidance to socially disadvantaged children and refugees (age 15–20) in three main aspects: Nutrition (cooking a warm and healthy lunch every day), Sport (kickboxing and yoga), and Education (tutoring in Mathematics, Physics, German, etc.)
- TUM Buddy Program** since 10/2021
- Introducing 1-3 incoming foreign or exchange students to Munich, the TUM Munich Forschungscampus, the student life, university administration, etc.
- Junior Doctoral Student Representative for TopMath Program** since 10/2023

CONFERENCES/SUMMER SCHOOLS/WORKSHOPS/SEMINARS (SELECTED)

- CIME Summer School on Statistical Mechanics and Stochastic PDEs** (*Grant awarded*) Cetraro, Italy; 09/2023
- SPDEvent Bielefeld** (*Grant awarded*) Bielefeld, Germany; 07/2023
- Oxford Workshop on Interacting Particles, Fluctuating Systems, and SPDEs** (*Grant awarded*) Oxford, UK; 06/2022
- MPI Summer School on PDEs and Randomness** (*Grant awarded*) Leipzig, Germany; 05/2023
- Oxford-Berlin Mathematics of Random Systems Summer School** Oxford, UK; 09/2022
- São Paulo School of Advanced Science on Singular SPDEs and Their Applications** (*Grant awarded*) Campinas, Brazil; 08/2022
- Berlin Stochastic & Rough Analysis** Berlin, Germany; 07/2022
- Rough Analysis and Data Science Workshop** London, UK; 07/2022
- Oberseminar and Research Seminar Talks (see website for details):**
- TUM M10 Oberseminar – “Classification of Topological Surfaces”, based on an essay for TopMath Program application 23/12/2020
 - TUM M14 Oberseminar – “Fractional Brownian Motion“, based on B.Sc. final project 26/10/2021
 - TUM M14 Research Seminar – “A brief introduction to Rough Paths”, expository talk 25/04/2022
 - TUM Oberseminar Dynamics – “Towards Abstract Wiener Model Spaces”, joint work with Peter Friz (TU Berlin) 03/07/2023

EXTRACURRICULAR

Languages: Native in German; Fluent in English (TOEFL: 119/120); A1 in French
Software: MS Office, LaTeX, MATLAB, Julia, Python, R

AWARDS & GRANTS

- TUM-GS Bridge Financing Grant** for outstanding TUM Master graduates (*declined*) 08/2023
- TopMath Study Award** for outstanding academic achievement during the TopMath pre-doc phase 01/2024