

EDUCATION

PhD student since 04/2019
Ulm University

- Working title: Analytic aspects of kinetic partial differential equations
- Advisor: Prof. Dr Rico Zacher

M.Sc. Mathematics 03/2018 — 03/2019
Ulm University

- Thesis: Kolmogorov equations - Well-posedness, regularity, asymptotics and Harnack inequalities
- Grade: 1.0 with distinction, awarded for best graduation
- During my master's studies, I focused on Analysis by taking courses on the calculus of variations, evolution equations, functional calculus, partial differential equations and optimal transport. This was supported by courses in applied mathematics, such as numerical finance, as well as a series of lectures on econophysics.

B.Sc. Mathematics 10/2014 — 02/2018
Ulm University

- Thesis: Long-time behaviour of Markov chains by discrete functional inequalities and entropic Ricci curvature
- Grade: 1.1 with distinction, awarded for best graduation

Abitur, *Joachim-Hahn-Gymnasium Blaubeuren* 06/2014
Junior studies in mathematics, *Fernuniversität Hagen and Pfh Göttingen* 04/2013 — 09/2014

WORKING AND TEACHING EXPERIENCE

Pre-doctoral fellow Since 10/2022
Ulm University Ulm, Germany

- Head of teaching assistants for Analysis 1.
Creation and presentation of exercises supplementary to the lectures, responsible for the student assistants.
Assisting in the creation and correction of the exams.
- Local coordinator for the 26th Internetseminar.

Teaching assistant 03/2020 — 10/2022
University of Applied Sciences Neu-Ulm Neu-Ulm, Germany

- Design and supervision of a supplementary course on statistics and applications for first-year students in business psychology with an emphasis on programming in R.

Pre-doctoral fellow 04/2019 — 10/2019
Ulm University Ulm, Germany

- Head of teaching assistants for Analysis 1.
- Organisation of the Trainingscamp, a four-week annual event for approx. 400 first-year students to refresh their mathematical skills before the start of their studies.

Scientific assistant 10/2017 — 03/2019
Ulm University Ulm, Germany

- Head of teaching assistants for Analysis 2, Dynamical systems and Elements of functional analysis.

Working student 03/2015 — 03/2019
Daimler AG Research & Development Ulm, Germany

- Statistical Analysis with Matlab and Excel.
- Supervising the operation of a quasi-static tension-compression testing machine.

Student assistant 10/2015 — 09/2017
Ulm University Ulm, Germany

- Tutor for the Mathlabs Analysis 1 and Analysis 2.

AWARDS AND SCHOLARSHIPS

Travel grant by the ProTrainU Mobility-Programme, Ulm University (1000 €) 06/2022
Master graduation award "Absolventenpreis M.Sc. Mathematik Uni Ulm 2020" for the best graduation 04/2022
Graduate scholarship granted by the State of Baden-Wuerttemberg, Germany (grant number 1902 LGFG-E) since 11/2019
Bachelor graduation award "Absolventenpreis B.Sc. Mathematik Uni Ulm 2018" for the best graduation 05/2018
Ferry Porsche Award and graduation award of the "Deutsche Physikalische Gesellschaft" 06/2014

VOLUNTEER WORK

Elected member of the council of PhD students at Ulm University	02/2021 — 09/2022
• <i>Representing the interests of doctoral students in university committees, e.g. for the change of the PhD regulations. From 12/2021 — 09/2022, chair of the council PhD students.</i>	
Elected member of the faculty council for Mathematics and Economic Sciences of Ulm University	02/2021 — 09/2022
Member of the Academic Student Council Mathematics	07/2017 — 03/2019
• <i>Member of the appointment committee for a professorship in “Stochastics”.</i>	

OTHER SCIENTIFIC ACTIVITIES

Supporting the organisation of the summer school “Non-linear horizons in PDEs” at Ulm University	09/2022
Referee for Journal of Evolution Equations	10/2022
Co-organisation of the seminar “Mathematisches Kolloquium” at Ulm University	since 03/2020
• <i>A series of talks at which researchers are invited to give a talk accessible to a broad audience.</i>	
Organisation of a workshop for PhD students in mathematics at Ulm University	06/2022
• <i>One weekend, 15 participants, funding (approx. 2500 €) acquired by the StuVe Ulm University.</i>	
Supervision of a project for the workshop of the 25th Internetseminar	03/2022 — 06/2022
• <i>Title: Kolmogorov equation in $L^p(\mathbb{R}^{2n})$ – Semigroup, spectrum, maximal regularity?</i>	
Research stay at Prof. Dr. Cyril Imbert, École normale supérieure Paris, one week	11/2021
Facilitator at the autumn school “COLLAB – Collaboratory for Global Sustainability 2021”, Toronto/Ulm	10/2021
Supporting the organisation of the winter school “Grad. Flows and Var. Methods in PDEs” at Ulm University	11/2019

TALKS AND POSTERS

Talk & Poster — “Non-linear horizons in PDEs”, <i>Ulm University</i>	09/2022
Poster — When Kinetic Theory meets Fluid Mechanics, <i>ETH Zürich</i>	07/2022
Poster — 11th Summer school on “Methods and Models of Kinetic Theory”, <i>Pesaro</i>	06/2022
Poster — Frontiers in analysis of kinetic equations, <i>INI Cambridge</i>	01/2022
Talk — Nonlinear Evolution Equations and Approximations, <i>University of Duisburg-Essen</i>	07/2021
Talk — Oberseminar Analysis, <i>Ulm University</i>	03/2021
Poster — Winterschool on Analysis and Applied Mathematics, <i>University of Münster</i>	02/2021

ATTENDED CONFERENCES

Summer school “Non-linear horizons in PDEs”, <i>Ulm University</i>	09/2022
2nd IST Austria Summer School in Analysis and PDEs, <i>IST Austria</i>	07/2022
When Kinetic Theory meets Fluid Mechanics, <i>ETH Zürich</i>	07/2022
25th Internetseminar “Spectral Theory for Operators and Semigroups”, <i>Agropoli</i>	06/2022
11th Summer school on “Methods and Models of Kinetic Theory”, <i>Pesaro</i>	06/2022
Oxbridge PDE Conference, <i>University of Oxford</i>	05/2022
Frontiers in the Interplay Between Probability and Kinetic Theory, <i>ICMS Edinburgh</i>	04/2022
Kinetic Theory: old and new tutorial, <i>INI Cambridge</i>	01/2022
Frontiers in analysis of kinetic equations, <i>INI Cambridge</i>	01/2022
Deep Learning and partial differential equations, <i>INI Cambridge</i>	07/2021
Recent advances in Gradient Flows, Kinetic Theory, and Reaction-Diffusion Equations, <i>University of Vienna</i>	03/2021
Kinetic Equations: from Modeling Computation to Analysis, <i>CIRM Marseille</i>	03/2021
Winterschool on Analysis and Applied Mathematics, <i>University of Münster</i>	02/2021
Gradient flows and variational methods in PDEs, <i>Ulm University</i>	11/2019
PDE/Probability Interactions: Particle Systems, Hyperbolic Conservation Laws, <i>CIRM Marseille</i>	10/2019
Parabolic Evolution Equations, Harmonic Analysis And Spectral Theory, <i>Bad Herrenalb</i>	05/2019
Non Standard Diffusions in Fluids, Kinetic Equations and Probability, <i>CIRM Marseille</i>	12/2018
Evolutionsgleichungen in Ulm, <i>Ulm University</i>	04/2018

SKILLS

Communication	German (native speaker), English (C1), French (B1)
IT	C++, Excel (VBA), Java, \LaTeX , Mathematica, Matlab, R, Swift
	Sophisticated understanding of software and hardware
	Advanced videography and photography skills