University of Münster Orléans-Ring 10 48149 Münster, Germany

Ulm University

Lukas Niebel

Postdoctoral Researcher

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LIST OF PUBLICATIONS	
Steady bubbles and drops in inviscid fluids with D. Meyer and C. Seis, arXiv, link to the preprint.	03/2025
On a kinetic Poincaré inequality and beyond	03/2025
with Rico Zacher, Journal of Functional Analysis, 289, link to the article. Fundamental solutions to Kolmogorov-Fokker-Planck equations with rough coefficients:	03/2024
Existence, uniqueness, upper estimates with P. Auscher and C. Imbert, accepted for publication in SIAM Journal Mathematical Analysis, link to the preprint.	
Weak solutions to Kolmogorov-Fokker-Planck equations: Regularity, existence and uniqueness with P. Auscher and C. Imbert, arXiv/HAL, link to the preprint.	03/2024
A trajectorial interpretation of Moser's proof of the Harnack inequality with Rico Zacher, to appear in Annali della Scuola Normale Superiore di Pisa - Classe di Scienze, link to the prep	05/2023 print.
Kinetic maximal L^p -regularity with temporal weights and application to quasilinear kinetic diffusion equations	01/2022
with Rico Zacher, Journal of Differential Equations, 307, p. 29–82, link to the article. Kinetic maximal $L^p_\mu(L^p)$ -regularity for the fractional Kolmogorov equation with variable density	01/2022
Nonlinear Analysis, 214, link to the article.	01/2022
Kinetic maximal L^2 -regularity for the (fractional) Kolmogorov equation with Rico Zacher, Journal of Evolution Equations, 21, p. 3585–3612, link to the article.	04/2021
EDUCATION	
PhD Mathematics Ulm University	4/2019 — 06/2023
• Thesis: Analytic aspects of kinetic partial differential equations.	
Advisor: Prof. Dr Rico Zacher. Referees: Prof. Dr Cyril Imbert, Prof. Dr Hongjie Dong.	
• Grade: Summa cum laude, awarded by the Ulmer Universitätsgesellschaft.	
M.Sc. Mathematics Ulm University	3/2018 — 03/2019
Thesis: Kolmogorov equations - Well-posedness, regularity, asymptotics and Harnack inequalities. Grade: 1.0 with distinction, awarded for the best graduation.	
B.Sc. Mathematics Ulm University	0/2014 — 02/2018
 Thesis: Long-time behaviour of Markov chains by discrete functional inequalities and entropic Ricci curvate Grade: 1.1 with distinction, awarded for the best graduation. 	ure.
Abitur, Joachim-Hahn-Gymnasium Blaubeuren Junior studies in mathematics, Fernuniversität Hagen and PfH Göttingen 04	06/2014 4/2013 — 09/2014
Working Experience	
Postdoctoral fellow University of Münster	Since 04/2023
Predoctoral fellow Ulm University	0/2022 — 03/2023
Teaching assistant University of Applied Sciences Neu-Ulm	3/2020 — 10/2022
	4/2019 — 10/2019
Scientific assistant 10	0/2017 — 03/2019
	3/2015 — 03/2019
Daimler AG Research & Development	
Student assistant 10	0/2015 - 09/2017

AWARDS AND SCHOLARSHIPS

Awards and Scholarships	
PhD thesis award "Promotionspreis der Ulmer Universitätsgesellschaft" (1500 €) Travel grant by the ProTrainU Mobility-Programme, Ulm University (1000 €) Master graduation award "Absolventenpreis M.Sc. Mathematik Uni Ulm 2020" for the best graduation (500 €) Graduate scholarship granted by the State of Baden-Wuerttemberg, Germany (52.200 €) Bachelor graduation award "Absolventenpreis B.Sc. Mathematik Uni Ulm 2018" for the best graduation (50 Ferry Porsche award and graduation award of the "Deutsche Physikalische Gesellschaft"	11/2019
Volunteer Work	
Elected member of the council of PhD students at Ulm University Representing the interests of doctoral students in university committees, e.g. for the change of the PhD regulations. Chair of the council of PhD students (12/2021 — 09/2022). Elected member of the faculty council for Mathematics and Economic Sciences at Ulm University Member of the Academic Student Council Mathematics	02/2021 — 09/2022 02/2021 — 09/2022 07/2017 — 03/2019
 Member of the appointment committee for a professorship in "Stochastics". 	
OTHER SCIENTIFIC ACTIVITIES	
Research stay at Prof. Dr Rico Zacher, Ulm University, one week Research stay at Prof. Dr Pascal Auscher, Université Paris-Saclay, two weeks Research stay at Prof. Dr Rico Zacher, Ulm University, one week Research stay at Prof. Dr Pascal Auscher, Université Paris-Saclay, one week Research stay at Prof. Dr Pascal Auscher, Université Paris-Saclay, one week Research stay at Prof. Dr Pascal Auscher, Université Paris-Saclay, one week Research stay at Dr Tobias Ried, MPI Leipzig, one week Research stay at Dr Tobias Ried, MPI Leipzig, one week Research stay at Prof. Dr Rico Zacher, Ulm University, one week Research stay at Prof. Dr Christian Seis, WWU Münster, half a week Research stay at Prof. Dr Cyril Imbert, École normale supérieure Paris, half a week Supporting the organisation of the summer school "Horizons in non-linear PDEs" at Ulm University Co-organisation of the seminar "Mathematisches Kolloquium" at Ulm University Organisation of a workshop for PhD students in mathematics at Ulm University • One weekend, 15 participants, funding $(2500 \ ellipsi)$ acquired by the StuVe Ulm University. Supervision of a project for the workshop of the 25th Internetseminar • Title: Kolmogorov equation in $L^p(\mathbb{R}^{2n})$ - Semigroup, spectrum, maximal regularity? Research stay at Prof. Dr Cyril Imbert, École normale supérieure Paris, one week Facilitator at the autumn school "COLLAB - Collaboratory for Global Sustainability 2021", Toronto/Ulm Supporting the organisation of the winter school "Grad. Flows and Var. Methods in PDEs" at Ulm University Refereeing activity for Communications in Partial Differential Equations, Discrete and Continuous Dynamical Annales de l'ENS, European Journal of Mathematics, and Journal of Evolution Equations	•
Talks and Posters	
Talk — Münster-Imperial Day in PDE, University of Münster Talk — Oberseminar Analysis, University of Bonn Poster — Mathematics Münster Mid-term Conference, University of Münster Talk — Séminaire Analyse Numérique et EDP, Université Paris-Saclay Talk — Seminar of the AG Analysis-Probability, MPI Leipzig Talk — Seminar of the AG Analysis-Probability, MPI Leipzig Talk — Real Analysis and Geometry, CIRM Marseille Talk — Willhelm Killing Colloquium, WWU Münster Talk — Chair Dynamics Control and Numerics, FAU Erlangen Talk — TULKKA, KIT Karlsruhe Poster — Kinetic Theory, CIRM Marseille Talk & Poster — Horizons in non-linear PDEs, Ulm University Poster — When Kinetic Theory meets Fluid Mechanics, ETH Zürich Poster — 11th Summer school on "Methods and Models of Kinetic Theory", Pesaro Poster — Frontiers in analysis of kinetic equations, INI Cambridge Talk — Nonlinear Evolution Equations and Approximations, University of Duisburg-Essen Talk — Oberseminar Analysis, Ulm University Poster — Winterschool on Analysis and Applied Mathematics, University of Münster	10/2024 09/2024 03/2024 11/2023 09/2023 06/2023 04/2023 02/2023 11/2022 09/2022 07/2022 06/2022 07/2021 03/2021

ATTENDED CONFERENCES

Münster-Imperial Day in PDE , <i>University of Münster</i>	10/2024
3rd IST Austria Summer School in Analysis and PDEs, IST Austria	06/2024
Mathematics Münster Mid-term Conference, <i>University of Münster</i>	03/2024
Phase mixing, kinetic theory and fluid mechanics, <i>SRS Les Diableretes</i> Kinetic and hydrodynamic PDEs, <i>ETH Zürich</i>	02/2024 01/2024
Workshop on Stability, Mixing and Fluid Dynamics, <i>University of Münster</i>	08/2023
Stability and dynamics in fluid mechanics and kinetic theory, <i>ICL London</i>	07/2023
New Directions in Compressible and Incompressible Flows, MPI Leipzig	06/2023
Real Analysis and Geometry, CIRM Marseille	06/2023
Kinetic Theory, CIRM Marseille	11/2022
Horizons in non-linear PDEs, <i>Ulm University</i>	09/2022
2nd IST Austria Summer School in Analysis and PDEs, IST Austria	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> Frontiers in the Interplay Potygon Probability and Kingtis Theory, ICMS Ediphyrah	05/2022
Frontiers in the Interplay Between Probability and Kinetic Theory, <i>ICMS Edinburgh</i> Kinetic Theory: old and new tutorial, <i>INI Cambridge</i>	04/2022 01/2022
Frontiers in analysis of kinetic equations, <i>INI Cambridge</i>	01/2022
Deep Learning and partial differential equations, INI Cambridge	07/2021
Recent advances in Gradient Flows, Kinetic Theory, and Reaction-Diffusion Equations, <i>University of Vic</i>	
Kinetic Equations: from Modeling Computation to Analysis, CIRM Marseille	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, CIRM Marseille	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, CIRM Marseille	12/2018
Evolutionsgleichungen in Ulm, <i>Ulm University</i>	04/2018
TEACHING EXPERIENCE	
Teaching assistant, University of Münster	Winter 2024
Partial Differential Equations	
Teaching assistant, University of Münster	Winter 2023
Teaching assistant , <i>University of Münster</i> Analysis and Numerics of Differential Equations	Winter 2023
Teaching assistant, University of Münster Analysis and Numerics of Differential Equations Teaching assistant, Ulm University	
Teaching assistant, University of Münster Analysis and Numerics of Differential Equations Teaching assistant, Ulm University Analysis 1, Local coordinator of the 26th ISEM	Winter 2023 Winter 2022
Teaching assistant, University of Münster Analysis and Numerics of Differential Equations Teaching assistant, Ulm University Analysis 1, Local coordinator of the 26th ISEM Teaching assistant, University of Applied Sciences Neu-Ulm	Winter 2023
Teaching assistant, University of Münster Analysis and Numerics of Differential Equations Teaching assistant, Ulm University Analysis 1, Local coordinator of the 26th ISEM Teaching assistant, University of Applied Sciences Neu-Ulm Business Mathematics and Statistics 1	Winter 2023 Winter 2022 Summer 2022
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