Résumé

Personal information

Full Name	Jonas Jansen
Address	Sölvegatan 18 A, 223 62 Lund
Born	October 25, 1992, Aachen, Germany
Webpage	https://jonas-jansen.github.io
Email address	jonas.jansen@math.lth.se

Professional Appointments and Employment

Oct. 2022 - Present Postdoctor – LTH, Lunds Universitet

Apr. 2018 - Sep. 2022 Wissenschaftlicher Mitarbeiter – Rheinische Friedrich-Wilhelms-Universität Bonn

Studies and Education

Apr. 2018 - Sep. 2022 Ph.D. student in Mathematics – Rheinische Friedrich-Wilhelms-Universität Bonn

Thesis: Flows of Viscous Fluids: Fluctuations for Stochastic Homogenisation in Perforated Domains, and Non-Newtonian Thin-Film Models
Ph.D. advisor: Prof. Dr. Juan J. L. Velázquez

Apr. 2015 - Jan. 2018 M. Sc. in Mathematics – Rheinische Friedrich-Wilhelms-Universität Bonn

Thesis: Renormalization group methods for Stochastic PDEs
Supervisor: Prof. Dr. Massimiliano Gubinelli

Apr. 2012 - Mar. 2015 B. Sc. in Mathematik – RWTH Aachen University

Thesis: Large deviations für eine Vlasov-Fokker-Planck Gleichung
Supervisor: Prof. Dr. Michael Westdickenberg

Oct. 2011 - Mar. 2012 History studies – Humboldt-Universität zu Berlin

Publications and Preprints

Journal articles

J. Jansen, C. Lienstromberg, and K. Nik. "Long-Time Behavior and Stability for Quasilinear Doubly Degenerate Parabolic Equations of Higher Order". In: *SIAM Journal on Mathematical Analysis* (2023). Publisher: Society for Industrial and Applied Mathematics, pp. 674–700

Preprints

G. Brüll, B. Hilder, and J. Jansen. "Thermocapillary Thin Films: Periodic Steady States and Film Rupture". In: *arXiv:2308.11279* (2023)

P. Gladbach, J. Jansen, and C. Lienstromberg. "Non-Newtonian thin-film equations: global existence of solutions, gradient-flow structure and guaranteed lift-off". In: *arXiv:2301.10300 [math]* (2023)

R. M. Höfer and J. Jansen. "Convergence rates and fluctuations for the Stokes-Brinkman equations as homogenization limit in perforated domains". In: *arXiv:2004.04111 [math]* (2022)

Organized Events

2024 Minisymposium on *Pattern-forming Systems and Asymptotic Models* at EquaDiff 2024 together with Bastian Hilder, and Guido Schneider.

2020 Workshop on *The Mathematical Theory of Particle Suspensions* funded by SFB1060 together with Arianna Giunti, Richard Höfer, and Juan J. L. Velázquez.

Invited Talks

2023 Workshop Analysis and numerics of nonlinear PDEs: degeneracies & free boundaries, Lorentz Center Leiden

2023 Oberseminar Nichtlineare Differentialgleichungen, Universität Stuttgart

2021 15th International Conference on Free Boundary Problems
Minisymposium on Asymptotic approaches to interface dynamics, online

2020 DMV Jahrestagung 2020
Minisymposium on PDEs in Fluid Dynamics, online

Teaching

Lund

2023 Reading Course: *Resonances in Dynamical Systems*
Mathematics Communication (Project). Module leader: Niels-Christian Overgaard

Bonn

2018 - 2022 Teaching Assistant for Courses: Analysis I, Analysis III, Introduction to PDE, Functional Analysis, PDE & Modelling, Nonlinear PDE I, and Nonlinear PDE II
Undergraduate Seminar: Fourier Multipliers and Pseudodifferential Operators
Graduate Seminar on Fluid Dynamics

Further interests and qualifications

2022 Workshops on *Social Media für die Wissenschaft – Wie ich Forschung präsentieren kann*, *How to Start Your Podcast in Science Communication*, and *Communicating Science*, part of the Doctorate Plus program of the University Bonn

2016 Studienstiftung des deutschen Volkes e.V. Summer Academy
Unendliches erzählen. Moderne Mathematik in der Literatur des 20. Jahrhunderts, Neubeuern

Lund, August 24, 2023

Jonas Jansen