

January 30, 2026

Curriculum vitae Luke Schleef

PhD Student in Mathematics

Bielefeld University, Germany

Born on March 20, 2002 in Herford, Germany

Contact

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Research Interests

Partial Differential Equations, Nonlocal Operators, Regularity theory, Functions of Bounded Variation

Positions

PhD student, Bielefeld University

since **07/2025**

Advisors: Prof. Dr. Moritz Kaßmann, Prof. Dr. Lars Diening

Education

Master of Science in Mathematics, Bielefeld University

10/2023 - 06/2025

Master's thesis: *Hölder regularity for nonlocal elliptic equations*

Grade: 1.0 (awarded for best degree in Mathematics)

Date: Jun 4, 2025

Bachelor of Science in Mathematics and Economics (Wirtschaftsmathematik),

Bielefeld University

10/2020 - 08/2023

Bachelor's thesis: *Distributionen und ihre Anwendungen auf Differentialgleichungen*

Grade: 1.2 (awarded for best degree in Mathematics and Economics)

Date: Aug 2, 2023

High school diploma (Abitur), Rudolph-Brandes Gymnasium, Bad Salzuflen **08/2012 - 06/2020**

Grade: 1.1 (awarded high school graduation price for mathematics (Abiturpreis Mathematik der DMV))

Date: Jun 19, 2020

Publications and Preprints

- **Partial Hölder regularity for fully nonlinear nonlocal parabolic equations with integrable kernels**, with Minhyun Kim and Russell W. Schwab (2026). *arXiv Preprint*, arXiv:2601.15096

Teaching

- Tutor at Bielefeld University (since 04/2022) for courses *Analysis I*, *Analysis II*, *Measure and Integration theory*, *Stochastics I*, *Stochastics II*, *Ordinary Differential Equations* and *Operations Research*.

Award: Tutorenpreis Mathematik fachwissenschaftlich (2023) - Tutor Award for Academic Mathematics