

Lucas M. Fix

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🌐 Personal Webpage

Employment

- since Nov. 2024 📖 **Research Assistant** (Chair of Applied Analysis at the University of Augsburg),
working on analytical homogenisation in thin domains with evolving microstructure and the derivation of effective transmission conditions.
- Sep. 2024 – Oct. 2024 📖 **Research Assistant** (Department for Analysis and Mathematical Modelling at Heidelberg University),
assisting the preparation of the lecture *Calculus of Variations*.
- Apr. 2023 – Jul. 2024 📖 **Teaching Assistant** (Department for Analysis and Mathematical Modelling at Heidelberg University),
assisting the lectures *Partial Differential Equations* and *Calculus of Variations 2*.
- Oct. 2021 – Mar. 2023 📖 **Student Assistant** (Heidelberg University),
leading tutorials for the lectures *Analysis 1*, *Analysis 2*, and *Higher Analysis*.
- Oct. 2020 – Mar. 2021 📖 **Student Assistant** (Heidelberg University),
leading tutorials for the lecture *Analysis 1*.





Education

- since Nov. 2024 📖 **Doctoral Candidate** in Mathematics at the University of Augsburg,
Supervisor: Prof. Dr. M. A. Peter.
- Oct. 2021 – Aug. 2024 📖 **M.Sc. in Mathematics, Heidelberg University**,
final grade: 1.0 (with distinction).
 - Thesis title: *Elliptic Regularity Theory for the Robin Laplacian on Domains with an Exterior Cusp*,
Supervisor: Prof. Dr. H. Knüpfer.
 - Specialisations: *Applied analysis*, especially *partial differential equations* and *calculus of variations*.
- Oct. 2017 – Sep. 2021 📖 **B.Sc. in Physics, Heidelberg University**,
final grade: 1.4.
 - Thesis title: *Nonlinear Electrodynamics and its Applications in Cosmology*,
Supervisor: Prof. Dr. M. Bartelmann.
 - Specialisations: *Theoretical physics* and *astrophysics*.
- Jun. 2017 📖 **Abitur, Gymnasium Neuenbürg**

Invited Talks

- Oct. 2024 📖 Technical University of Darmstadt, Oberseminar *Analysis*
- Jul. 2024 📖 Technical University Dortmund, Oberseminar *Angewandte Analysis*
University of Augsburg, Oberseminar *Mathematische Modellierung und partielle Differentialgleichungen*

Workshops

- Mar. 2025  **Aachen–Erlangen–Regensburg Young Mathematicians Meeting: From Theory to Applications**, workshop at the Faculty of Mathematics at the University of Regensburg.
- Nov. 2024  **Fluid flow and reactive transport in porous media**, workshop at the Mathematical Institute for Machine Learning and Data Science (MIDS) of the KU Eichstätt-Ingolstadt.
- Jun. 2024  **Conference on Calculus of Variations in Lille - 4th edition**, workshop at Laboratoire Paul Painlevé, Université de Lille.
- Apr. 2023  **Compact course “The gradient flow structure of mean curvature flow”**, given by STRUCTURES guest Prof. Dr. T. Laux at Heidelberg University.