

Lucas M. Fix

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🌐 Personal Webpage

Employment

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| 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 <i>Calculus of Variations</i> . |
| Apr. 2023 – Jul. 2024 | ■ Teaching Assistant (Department for Analysis and Mathematical Modelling at Heidelberg University),
assisting the lectures <i>Partial Differential Equations</i> and <i>Calculus of Variations 2</i> . |
| Oct. 2021 – Mar. 2023 | ■ Student Assistant (Heidelberg University),
leading tutorials for the lectures <i>Analysis 1</i> , <i>Analysis 2</i> , and <i>Higher Analysis</i> . |
| Oct. 2020 – Mar. 2021 | ■ Student Assistant (Heidelberg University),
leading tutorials for the lecture <i>Analysis 1</i> . |



Education

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| since Nov. 2024 | ■ Doctoral Candidate in Mathematics at the University of Augsburg,
Supervisor: Prof. Dr. M. A. Peter. |
| Oct. 2021 – Sep. 2024 | ■ M.Sc. in Mathematics, Heidelberg University. <ul style="list-style-type: none">• Thesis title: <i>Elliptic Regularity Theory for the Robin Laplacian on Domains with an Exterior Cusp</i>,
Supervisor: Prof. Dr. H. Knüpfer.• Specialisations: <i>Applied analysis</i>, especially <i>partial differential equations</i> and <i>calculus of variations</i>. |
| Oct. 2017 – Sep. 2021 | ■ B.Sc. in Physics, Heidelberg University. <ul style="list-style-type: none">• Thesis title: <i>Nonlinear Electrodynamics and its Applications in Cosmology</i>,
Supervisor: Prof. Dr. M. Bartelmann.• Specialisations: <i>Theoretical physics</i> and <i>astrophysics</i>. |
| Jun. 2017 | ■ Abitur, Gymnasium Neuenbürg |




Memberships

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| Aug. 2023 – Oct. 2024 | ■ Member of the Young Researchers Convent ,
a subgroup of the STRUCTURES Cluster of Excellence. |
| Jan. 2023 – Oct. 2024 | ■ Participation in the PhD Discussion Group ,
a regular meeting of postdocs, PhD and master's students from the applied analysis groups at Heidelberg University to discuss their research. |

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

- 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.