Lucas M. Fix

Employment History

since Nov. 2024	**Doctoral Student** and **Research Assistant** at the Chair of Applied Analysis at Augsburg University.
Sep. 2024 – Oct. 2024	**Research Assistant** in the Analysis and Mathematical Modelling Section at Heidelberg University.
Apr. 2023 – Jul. 2024	**Teaching Assistant** in the Analysis and Mathematical Modelling Section at Heidelberg University, for the lectures *Partielle Differentialgleichungen* and *Variationsrechnung 2* (editing lecture materials, supervision of seminar talks, organizational tasks).
Oct. 2021 – Mar. 2023	**Student Assistant** at Heidelberg University, leading tutorials for the lectures *Analysis 1*, *Analysis 2* and *Höhere Analysis*.
Oct. 2020 – Mar. 2021	**Student Assistant** at Heidelberg University, leading tutorials for the lecture *Analysis 1*.

Education

Oct. 2021 – Sep. 2024	**M.Sc. in Mathematics, Heidelberg University**. • 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**. • Thesis title: *Nonlinear Electrodynamics and its Applications in Cosmology* (Supervisor: Prof. Dr. M. Bartelmann). • Specialisations: *Theoretical physics* and *astrophysics*.
Jun. 2017	**Abitur, Gymnasium Neuenbürg**

Memberships

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 biweekly meeting of postdocs, PhD and master's students from the applied analysis groups at Heidelberg University to discuss their research.
Nov. 2022 – Oct. 2024	**Participation in the Applied Analysis Seminar**, a weekly meeting of professors, postdocs, PhD and master's students from the applied analysis groups at Heidelberg University to share the latest results in applied analysis.

Invited Talks

Oct. 2024	🔖	Technical University of Darmstadt, Oberseminar *Analysis*
Jul. 2024	🔖	Augsburg University, 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.

References

Available on request.