

# Lucas Maximilian Fix

## Employment History

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

## Education



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

## Memberships

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| Aug. 2023 – Oct. 2024 | ■ <b>Member of the Young Researchers Convent</b> , a subgroup of the STRUCTURES Cluster of Excellence.  |
| Jan. 2023 – Oct. 2024 | ■ <b>Participation in the PhD Discussion Group</b> , 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 | ■ <b>Participation in the Applied Analysis Seminar</b> , 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

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

## Workshops

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- 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

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Available on request.