

Carolyn Bayer

Ph.D. Candidate Mathematics

ACADEMIC & WORKING EXPERIENCE

Ph.D. Candidate Mathematics

Sep 2025 – Present

ETH Zürich

- Under supervision of Francesca da Lio and co-supervision of Tristan Rivière

Ph.D. Candidate Mathematics

Sep 2024 – Feb 2025

Karlsruhe Institute of Technology (KIT)

- Under supervision of Tobias Lamm

Working Student – Data Science (IT-Security)

Sep 2022 – Aug 2023

SAP

- Experimental encryption of sensitive data with variational auto-encoders
- Data encryption on high-dimensional manifolds

Teaching Assistant

Oct 2020 – Mar 2024

Karlsruhe Institute of Technology (KIT)

- Linear Algebra I and II
- Mathematics for Economics II and III

EDUCATION

M.Sc. Mathematics

Oct 2022 – Apr 2024

Karlsruhe Institute of Technology (KIT)

- Major: PDEs, Variational Methods, Geometric Analysis
- Minor: Computer Science
- GPA: 1.2

B.Sc. Mathematics

Oct 2019 – Sep 2022

Karlsruhe Institute of Technology (KIT)

- Major: Calculus 1–4, PDE, Boundary and Eigenvalue Problems
- Minor: Computer Science
- GPA: 1.6

AWARDS & VOLUNTEERING

- Deutschlandstipendium: Funding provided by WiCAM + Government

Oct 2023 – Aug 2024

- Crash Course Instructor: fuks e.V.

May 2024