

Rio Haeussler Albi

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Education

Gymnasium Rissen, Secondary Education (Abitur)

July 2014 – July 2022

- Abitur mathematics grade: 15/15 points.
- Abitur final grade: 1.8 (German grading scale).
- Award for outstanding achievements in mathematics Abitur exam (Deutsche Mathematiker-Vereinigung).

University of Hamburg, BSc. in Mathematics

Oct 2022-July 2025

- Final grade: 1.02 (Best: 1.00)
- **Coursework:** Analysis I/II, Higher Analysis, Linear Algebra I/II, Algebra, Homological Algebra (Graduate level, English), Probability Theory, Graph Theory, Complex Analysis, Algorithms & Data structures, Software Engineering I/II, Introduction to Theoretical Computer Science, Introductory Seminar on Algebra & Topology, Geometry, Topology, Partial Differential Equations (Graduate Level, English), Seminar on Metric Geometry.
- Passed 13/16 classes with a perfect grade of 1.0/5.0.

University of Wisconsin-Madison, PhD in Mathematics

since August 2025

- **Graduate coursework:** Homological Algebra, Algebraic Topology I, Algebraic Topology II, Algebraic Geometry II.

Teaching experience

Private Tutoring, Hamburg

March 2023 - July 2025

- Tutored students in grades 8-12 in mathematics and physics.

Teaching Assistant, University of Hamburg

April 2024 – April 2025

- Courses: Analysis I, Analysis II.

Teaching Assistant, University of Wisconsin-Madison

since August 2025

- Courses: Calculus II, Elementary Linear Algebra.

Presentations

Cohomology ring of Grassmannians, Introductory Seminar on Algebra & Topology, University of Hamburg

Jan 2024

- Gave a presentation on the Cohomology ring of a Grassmannian manifold and its description via Schur polynomials.
- Wrote an 8-page expository paper on the topic in my third semester.

Gromov-Hausdorff convergence and the compactness theorem, Seminar on Metric Geometry, University of Hamburg

Jan 2025

- Gave a presentation on Gromov-Hausdorff convergence of metric spaces and Gromov's compactness theorem.