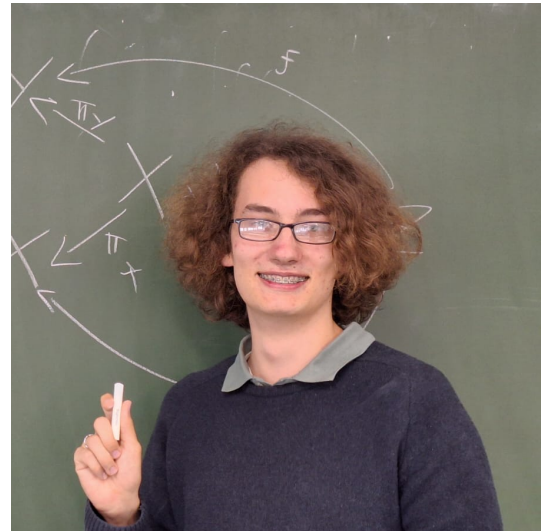


Curriculum Vitae

Personal Information

Name: **Elia Immanuel Auer**
Date of Birth: **11.10.2004** in Berlin
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Education

- Since 2025
Freie Universität Berlin & Berlin Mathematical School
Master's Student
- From 2022 to 2026
Freie Universität Berlin
Bachelor of Science in Mathematics with Grade 1.0
Bachelor Thesis: The Duality between Banach Spaces and Smith Spaces in the Settings of Classical Functional Analysis and Condensed Mathematics
Supervisor: Prof. Dr. Holger Reich
- From 2016 to 2022
Rückert-Gymnasium Berlin
Abitur with Grade 1.0

Languages

- **German** - Native Language
- **English** - Fluent

Talks

- Sheaf Cohomology I, 18.5.2026
Seminar on Étale Cohomology in the Summer Semester 2026 by Prof. Dr. Holger Reich
- ℓ^2 -Betti Numbers, 18.2.2026
BMS Student Conference
- Stable Geometric Dimension for Proper Actions, 27.11.2025
Algebraic Topology Research Seminar in the Winter Semester 2025/2026
- The von Neumann Dimension, 30.10.2025
Seminar on ℓ^2 -Betti Numbers in the Winter Semester 2025/2026 by Dr. Kevin Li and Prof. Dr. Elmar Vogt
- Cubes, Gaps and Orthogonality Conditions, 22.5.2025
Algebraic Topology Research Seminar in the Summer Semester 2025
- Representations of Symmetric Groups II: Frobenius Formula, 3.7.2024
Seminar on Representation Theory in the Summer Semester 2024 by Dr. Georg Lehner and Prof. Dr. Elmar Vogt

Attended Conferences

- BMS Student Conference, Berlin, 18.2.2026 - 20.2.2026
- Motivic Homotopy Theory, Regensburg, 17.3.2025 - 21.3.2025
- Young Topologists Meeting, Münster, 5.8.2024 - 9.8.2024

Teaching

- Tutor for Computeralgebra, Winter Semester 2024/2025
- Tutor for Analysis I, Winter Semester 2024/2025
- Tutor for Analysis II, Summer Semester 2024
- Tutor for Computeralgebra, Winter Semester 2023/2024
- Tutor for Analysis I, Winter Semester 2023/2024

Other Activities

- Co-Organizer of the BMS "what is...?" Seminar, 2026
- Student Representative at the Berlin Mathematical School, 2026
- Partial Solution Manual for "Rings of Continuous Functions" by Gillman and Jerison
- Internship at the "Algorithm Engineering" Working Group of the Hasso-Plattner-Institut, 22.7.2024 - 6.9.2024
- Participation in the National Round of the German Mathematical Olympiad, 13.6.2018 - 16.6.2018
- Participation in the "Mathematische Schülergesellschaft Leonhard Euler", 2016 - 2020