

Leopold KARL

Curriculum Vitae

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Education

- Sep. 2025 – **PhD candidate**, *Technical University of Vienna (TU Wien)*, 1040 Vienna.
today Under the supervision of Prof. [Michael Pinsker](#), funded by the ERC-project [POCOCOP](#).
- June 2024 – **Master of Mathematics**, *Swiss Federal Institute of Technology (ETH)*, 8092 Zurich.
Aug. 2025 Finished with a GPA of 5.88/6.0¹ faster than the standard minimum period of study.
- Sept. 2021 – **Bachelor of Mathematics**, *Swiss Federal Institute of Technology (ETH)*, 8092 Zurich.
May 2024 Finished with a GPA of 5.41/6.0 faster than the standard minimum period of study, although I served in the military throughout the first semester and worked part-time during the rest of my studies.

Thesis

- May 2025 **Master's Thesis**, *The Ideal Chomp Game*, ETH Zurich.
Supervised by Johannes Schmitt.
- May 2024 **Bachelor's Thesis**, *On the finiteness of Simple Eta-quotients of fixed weight or fixed level*, ETH Zurich.
Supervised by Markus Schwagenscheidt.
- Jan. 2021 **Vorwissenschaftliche Arbeit**, *Der Satz von Euler-Fermat und seine Anwendung in der Kryptographie*, Schottengymnasium.
Supervised by Markus Kiesenhofer.

Academic Involvement

Conferences/Events

- 23.-25.3.2026 **7th POCOCOP Meeting**, Prague (CZE)
- 6.-8.2.2026 **108th Arbeitstagung Allgemeine Algebra (AAA)**, Vienna (AT)
- 1.-3.12.2025 **6th POCOCOP Meeting**, Vienna (AT)
- 21.-27.9.2025 **7th CSP World Congress**, Cervinia (ITA)
- 14.-20.9.2025 **Summer School of the Vienna School of Mathematics**, Dienten am Höchkönig (AT)

Talks

- 23.4.2026 & **Seminar Talk**, *A Simplified Proof of the CSP Dichotomy Conjecture and XY-symmetric Operations*, TU Wien
30.4.2026
- 9.10.2025 & **Seminar Talk**, *On equational characterisations of congruence distributivity and congruence permutability*, TU Wien
16.10.2025

¹You may find ETH's official grading scheme here: <https://ethz.ch/content/dam/ethz/main/education/rechtliches-abschluesse/grading.pdf>.

Work experience

Academic Work Experience

- Sep. 2025 – **Project assistant**, *TU Wien*
today Funded by the ERC-synergy grant **POCOCOP**.
- Nov. 2024 – **Research Assistant at D-MTEC² Chair of Macroeconomics: Innovation and**
Aug. 2025 **Policy**, *ETH Zurich*, CH.
I wrote and corrected proofs for papers published by Prof. **Hans Gersbach**.
- Sept. 2022 – **Teaching Assistant in Linear Algebra**.
June 2024 First year Linear Algebra course for students of mathematics and physics.
- July 2020 **Traineeship**, *Austrian Academy of Sciences (ÖAW)*, 1090 Vienna, AT.
Traineeship in Prof. **Anton Zeilinger**'s group at the **Institute for quantum optics and quantum information (IQOQI)**; funded by the **Austrian Research Promotion Agency (FFG)** within the framework of the program "Talente Praktika"³.

Other Work Experience

- April 2020 – **Private Tutor**
June 2026 Tutoring at high school and university level.
- March 2025 **Optiver's Graduate Career Kickstart Program**
Receiving valuable insights in a trader's day-to-day work. Engaging in various fun trading activities.
- Sept. 2021 – **Paramedic of the mountain infantry company stationed at Wallnerkaserne**,
Febr. 2022 *Ausrian Armed Forces*, 5760 Saalfelden, AT.
Voluntary paramedic of a mountain infantry company; paramedic traineeship at the Vienna Emergency medical services (November 2021).
- August 2021 **Skipper of sailing yachts**, *Delfin Charter*, Punat, CRO.
Sailing trips in the Kvarner-Bay (Adriatic Sea).
- August 2020 **Sailing instructor**, *Union Yacht Club Traunsee (UYCT)*, 4810 Gmunden, AT.
and 2021 Sailing instructor during youth weeks of the **Union Yacht Club Traunsee (UYCT)**.
- July 2021 **Sailing instructor**, *Blue-2: The Sailing Academy*, Punat, CRO.

Other Activities

During my studies I fell in love with endurance sports and currently compete in triathlon, running and cycling at an ambitious amateur level.

Throughout my childhood I used to play Baseball, compete in various math and science olympiads and competitions and play the piano. During high school I've been part of the Austrian Youth National Sailing Team, and intensified my participations in olympiads.

²Department of Management, Technology, and Economics

³ "internships for talents"