

LEO SCHMIDT-TRAUB

Zurich, Switzerland
+33 6 16 60 29 02 | leo.schmidttraub@gmail.com
Nationalities: French, German, American

EDUCATION

ETH Zürich

Bachelor of Science in Computer Science

Zürich, Switzerland

Sep. 2024 – Sep. 2027 (Expected)

- **GPA: 6.0/6.0** (ranked first in cohort)
- **Selected Coursework:** Probabilistic Artificial Intelligence; Algorithms, Probability, and Computing; Introduction to Machine Learning; Topology; Hands-on Deep Learning.

EXPERIENCE

ETH Zürich

Student Researcher – Distributed Computing Group (DISCO)

Zürich, Switzerland

2025 – Present

- Evaluated upsampling strategies for audio codec models.
- Implemented prediction of subsequent layers of Residual Vector Quantization (RVQ) from the first layer, using PyTorch and Descript Audio Codec (DAC).

ETH Zürich

Teaching Assistant

Zürich, Switzerland

Fall 2025 – Spring 2026

- **Discrete Mathematics (Fall 2025):** mentored 30+ students through weekly exercise sessions, and maintained a website providing explanations and more challenging exercises (discmath.ch)
- **Introduction to Machine Learning (Spring 2026):** Incoming TA for upcoming semester.

TECHNICAL SKILLS

Languages: Python, C/C++, Java

Machine Learning: PyTorch, JAX, Hugging Face pipelines, Prime Intellect, MuJoCo, PufferLib

Other Tools/Libs: Eigen, OpenGL

PROJECTS

Chemical Language Model – Collaborative research

2025

- Co-developed a BERT-based encoder for SMILES chemical data.
- [GitHub repository](#)

Morphogénie – Turing pattern simulator

2023

- Awarded national engineering prize in the "Trophées NSI" competition for a Turing pattern simulator developed in Python.
- [Github repository](#)

LANGUAGES AND INTERESTS

Languages: English (Native), French (Bilingual/School), German (Native/C1), Spanish (B2), Mandarin (HSK 5)

Interests: Piano, Climbing, Running, Chess, Poker