Martin Wertich

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Portfolio

Education

ETH Zurich — *Zurich, Switzerland*
Master of Science ETH in Computer Science — *Sept 2024 – present*

- **Current GPA:** 5.65/6.0 (ETH Zurich)
- **Focus:** Theoretical Machine Learning (Statistical Learning & Optimization Theory, Random Matrices)
- **Major:** Machine Intelligence, **Minor:** Theoretical Computer Science

Johannes Gutenberg University — *Mainz, Germany*
Bachelor of Science in Computer Science — *Aug 2020 – Jul 2024*

- GPA: 1.1/1.0 (Johannes Gutenberg University)
- Bachelor Thesis: Exploring the Hidden Structures of Attention Layers in Transformer Models

Dalarna University — *Falun, Sweden*
Erasmus+ exchange semester in "Data Science" — *Aug 2023 – Jan 2024*

Sebastian Münster Gymnasium — *Ingelheim, Germany*
Abitur (GPA: 1.2/1.0) — *Aug 2011 – Mar 2020*

Research Experience

ETH AI Center — *Zurich, Switzerland*
Research Assistant (ETH AI Center) under the supervision of Barna Paztor and Ido Hakimi (LAS Group) — *Jul 2025 – Sep 2025*

- Follow-up work on the ETH AI Center project *"Active Learning for Sample-Efficient RLHF"*
- Implemented and evaluated RLHF training pipelines for LLMs on the SwissAI Clariden cluster
- Enhanced UltraFeedback's annotation efficiency by utilizing Epistemic Neural Networks (ENNs)

Professional Experience

ETH Zurich — *Zurich, Switzerland*
Teaching Assistant in "Stochastics and Machine Learning (D-MAVT)" — *Feb 2025 – Aug 2025*

Envision Entertainment GmbH — *Ingelheim, Germany*
Software Development Intern — *Apr 2023 – Aug 2023*

- Developed a map generation algorithm in C# for the computer game "Pioneers of Pagonia"

Schott AG — *Mainz, Germany*
Werkstudent (Working Student) in Machine Learning — *Sep 2022 – Mar 2023*

- Researched and developed explainable AI methods for time series data (SHAP, saliency maps)

Johannes Gutenberg University — *Mainz, Germany*
Teaching Assistant in "Introduction to Software Development" — *Apr 2022 – Oct 2022*

Scholarships & Awards

Deutschlandstipendium — *Oct 2023 - Sep 2024*

- Awarded annually to 1–2% of German students for outstanding academic performance

ETH Projects

AI Center Projects in Machine Learning Research 2025: Active Learning for Sample-Efficient RLHF

Computational Intelligence Lab 2025: Uncertainty-Aware Ensemble for Monocular Depth Estimation