

Linus Kühne

PhD Student • ETH Zurich, ETH AI Center

Seminar for Statistics & Statistical Machine Learning Group

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📍 Lenzburg, Switzerland • Swiss citizen

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I am a first-year PhD student, advised by Jonas Peters and Fanny Yang. My research interests lie in causality and distribution generalization.

Education

ETH Zurich Zürich, Switzerland
PhD in Statistics & Machine Learning Oct 2025 – Present

- ETH AI Center doctoral fellow; advised by Jonas Peters and Fanny Yang.
- Interests: causality, distribution generalization.

ETH Zurich Zürich, Switzerland
MSc in Applied Mathematics | GPA: **6.00** / 6.00 (with distinction) 2022 – 2024

- Master's thesis: *Invariance and Generalization for Classification*.

University of Copenhagen Copenhagen, Denmark
Exchange Semester in Mathematics Sep 2022 – Jan 2023

ETH Zurich Zürich, Switzerland
BSc in Mathematics | GPA: **5.70** / 6.00 2019 – 2022

- Bachelor's thesis: *Bayesian Optimization and Gaussian Measures on Banach Spaces*.

Neue Kantonsschule Aarau Aarau, Switzerland
Matura | GPA: **5.88** / 6.00 (best of year) 2015 – 2019

Work Experience

Swiss National Bank Zürich, Switzerland
Economic Data Science Intern Sep 2024 – Aug 2025

- Inflation forecasting and natural language processing using modern machine-learning methods.
- Co-developed text-based indicators of the Swiss economic outlook from newspaper articles.
- Built and deployed models on a large-scale data platform (PySpark, Hadoop) with CI/CD and agile workflows.

ETH Zurich Zürich, Switzerland
Student Research Assistant, D-MTEC Sep 2023 – Jul 2024

- Supported the Chair of Macroeconomics: Innovation and Policy.
- Reviewed economics and game-theory manuscripts; contributed proofs, writing, and figures.

Teaching

Spring 2026 **Student Seminar in Statistics: Distribution Generalization (TA).**

Fall 2025 **Causality (Head TA).**

Awards & Fellowships

- 2025 **ETH AI Center Doctoral Fellowship.** Competitive fellowship supporting interdisciplinary doctoral research in artificial intelligence at ETH Zurich.
- 2025 **Willi Studer Prize.** Awarded by ETH Zurich for the best Master's degree in Mathematics.
- 2021–2024 **Swiss Study Foundation.** Scholarship and mentoring program for Swiss students; selected on academic merit.

Publications & Preprints

- 2026 L. Kühne, F. Schur, J. Peters. *Prediction-Intervention Games and Invariant Sets*. [arXiv:2605.16828](https://arxiv.org/abs/2605.16828).
- 2025 F. Freni, A. Fries, L. Kühne, M. Reichstein, J. Peters. *Maximum Risk Minimization with Random Forests*. [arXiv:2512.10445](https://arxiv.org/abs/2512.10445).
- 2025 E. Beck, F. Eckert, L. Kühne, H. Liebert, R. Rosenblatt-Wisch. *Measuring Economic Outlook in the News*. [arXiv:2511.04299](https://arxiv.org/abs/2511.04299).

Skills

- Languages** German and Swiss German (native), English (C2), French
- Programming** Python (PySpark, PyTorch, scikit-learn, CVXPY), R
- Tools & Platforms** Git, Hadoop, CI/CD, Scrum, Jira, LaTeX

Service & Activities

- Since 2024 Swiss Armed Forces – military service.
- 2023 **Swiss Study Foundation summer schools** – sustainable food systems (Nairobi, Kenya) and neutrality & peacebuilding (Geneva / Vienna).