Mátyás Schubert

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I am a Ph.D. candidate at the Amsterdam Machine Learning Lab at the University of Amsterdam, under the supervision of Sara Magliacane. My research focuses on causal machine learning, with a particular interest in discovering and leveraging causal information efficiently. I am passionate about creating systems that solve problems and strive for software craftsmanship when implementing them.

Experience

Nov 2021 - May 2024	**Teaching Assistant** for multiple courses at the Uva M.Sc. AI programme, where I created and held lab sessions, and supervised assignments.
Nov 2021 - Jun 2022	**Intern** at the Qualcomm-UvA Lab, where I completed a research project for my master thesis on credit assignment for reinforcement learning.
Jun 2019 - Jul 2020	**Software Developer** as part of a CI/CD team at Ericsson, where I developed testing and deployment pipelines for complex cloud-based applications.

Education

2023 – 2027	**Ph.D., University of Amsterdam** Supervised by Sara Magliacane. Topic: *Scalable causal discovery for downstream tasks.*
2020 – 2022	**M.Sc. AI, University of Amsterdam** GPA 9.0/10. (cum laude) Thesis title: *Towards Causal Credit Assignment*.
2016 – 2020	**B.Sc. CS, Eötvös Loránd University** GPA 4,7/5. Thesis title: *Development of a visualization application for the BCC trace module*.

Publications

M. Schubert, T. Claassen, and S. Magliacane, "Local causal discovery for statistically efficient causal inference," in *The 29th International Conference on Artificial Intelligence and Statistics*, 2026. URL: https://openreview.net/forum?id=FlWl20PFd7.

M. Schubert, T. Claassen, and S. Magliacane, "SNAP: Sequential non-ancestor pruning for targeted causal effect estimation with an unknown graph," in *The 28th International Conference on Artificial Intelligence and Statistics*, 2025. URL: https://openreview.net/forum?id=0gEjlLdjK9.

A. Srivastava, …, **M. Schubert**, *et al.*, "Beyond the imitation game: Quantifying and extrapolating the capabilities of language models," *Transactions on Machine Learning Research*, 2023, ISSN: 2835-8856. URL: https://openreview.net/forum?id=uyTL5Bvosj.

Community

Reviewer	AISTATS (2025, 2026), CLeaR (2025, 2026), ICML (2026), IJAR (2023), TMLR (2025) and UAI (2024, 2025).
Teaching Assistant	Natural Language Processing 1 (2021), Causality (three times in 2023 - 2024).
Thesis advisor	Advised two theses at the UvA M.Sc. AI programme.
Volunteer	Student Volunteer at CLeaR 2023.

Skills

Languages	Hungarian native language, fluent in English.
Software	Python, R, Bash, Docker, Kotlin, LaTeX, Git.