Mátyás Schubert, Ph.D.

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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.

Employment History

2021 - 2022 **Teaching Assistant,** Natural Language Processing 1 course in the M.Sc AI programme of the University of Amsterdam, where I held lab sessions and supervised assignments.

2019 - 2020 **Software Developer,** As part of a continuous integration and continuous delivery team, I develop building, testing and deployment pipelines for complex cloud-based applications.

Education

2023 – present **Ph.D., University of Amsterdam** Supervised by Sara Magliacane.
Topic: *Causality-inspired Machine Learning and Reinforcement Learning.*

2020 – 2022 **M.Sc. Artificial Intelligence, University of Amsterdam** GPA 9.0/10.
Thesis title: *Towards Causal Credit Assignment*.

2016 – 2020 **B.Sc. Computer Science, Eötvös Loránd University** GPA 4,7/5.
Thesis title: *Development of a visualization application for the BCC trace module*.

Research

M. Schubert, T. Claassen, and S. Magliacane, "SNAP: Sequential non-ancestor pruning for targeted causal effect estimation with an unknown graph," in *9th Causal Inference Workshop at UAI 2024*, 2024. URL: https://openreview.net/forum?id=8ipQyiqeNO.

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.

Reviews

2025 Uncertainty in Artificial Intelligence (UAI)
Causal Learning and Reasoning (CLeaR)

2024 Uncertainty in Artificial Intelligence (UAI)

Skills

Languages Hungarian native language, fluent in English.

Software Python, R, Bash, Docker, Kotlin, LaTeX, Git.