

# Mátyás Schubert, Ph.D.

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🌐 <https://matyasch.github.io/>

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

- Jan. 2023 – Jan. 2027    📌 **Ph.D., University of Amsterdam** Supervised by Sara Magliacane.  
Topic: *Causality-inspired Machine Learning and Reinforcement Learning*.
- Sep. 2020 – Dec. 2022    📌 **M.Sc. Artificial Intelligence, University of Amsterdam** GPA 9.0/10.  
Thesis title: *Towards Causal Credit Assignment*.
- Sep. 2016 – Jul. 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,” *Accepted at Artificial Intelligence and Statistics*, 2025.  
🔗 URL: <https://arxiv.org/abs/2502.07857>.
- 📄 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    📌 Transactions on Machine Learning Research (TMLR)  
      📌 Uncertainty in Artificial Intelligence (UAI)  
      📌 Causal Learning and Reasoning (CLearR)
- 2024    📌 Uncertainty in Artificial Intelligence (UAI)

## Skills

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