

# Mona Schirmer

PhD Candidate in Machine Learning

📍 Amsterdam    ✉️ [m.c.schirmer@uva.nl](mailto:m.c.schirmer@uva.nl)

🌐 [monasch.github.io](https://monasch.github.io)    🎓 Mona Schirmer    🐦 [monaschir](https://twitter.com/monaschir)

## EDUCATION

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### PhD Candidate in Machine Learning

AMLab, University of Amsterdam

2022 - present

Amsterdam

- Supervisor: Eric Nalisnick
- Thesis topic: Learning under Distribution Shift

### M.Sc. Statistics

Technical & Humboldt University Berlin

2019-2021

Berlin

- Final grade: 1.2 (GPA: 3.9/4)
- Thesis: Continuous-Discrete Recurrent Kalman Networks (Grade: 1.0)

### Diplôme d'Ingénieur Statisticien Économiste (M.Sc.+B.Sc.)

ENSAE Paris

2017-2019

Paris

- Final GPA: 3.6/4
- Core subjects: Applied Mathematics, Statistics, Econometrics, Machine Learning

### B.Sc. Economics

Humboldt University of Berlin

2015-2019

Berlin

- Final grade: 1.5 (GPA: 3.6/4)
- Thesis: Representation Learning for Analysing the Evolution of Economic Literature (Grade: 1.0)

### B.A. Political Science

University of Munich

2011-2015

Munich

- Final grade: 1.5 (GPA: 3.6/4)
- Thesis: Asian Drivers in Africa: Economic Engagement of India and China (Grade: 1.3)

## RESEARCH EXPERIENCE

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### Applied Science Intern

Amazon

June 2025 - present

Berlin

- Increasing Diversity in Generative Retrieval Models

### Research Assistant

The World Bank

2022 - 2024

remote

- Supervisor: Sam Fraiberger
- Project: Causal Evidence Extraction from Economic Research

### Research Intern

Bosch Center for AI

Apr - Sep 2021

remote

- Supervisor: Maja Rudolph
- Project: Continuous-time Modelling

### Research Intern

Information Systems Chair, Humboldt University of Berlin

Jul - Aug 2018

Berlin

- Supervisor: Stefan Lessmann, Alona Zharova
- Project: Probabilistic Text Mining for Topic Extraction from Scientific Text

## PUBLICATIONS

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Preprint

**Schirmer\*, M.**, Jazbec\*, M., Naesseth, C., Nalisnick, E. (2025) Monitoring Risks in Test-time Adaptation. *Preprint*.

Preprint

**Schirmer, M.**, Zhang, D., Nalisnick, E. (2024) Temporal Test-Time Adaptation with State-Space Models. *Preprint*.

DistShift@NeurIPS

**Schirmer, M.**, Zhang, D., Nalisnick, E. (2023) Beyond Top-1 Agreement: Using Divergences to Forecast Performance under Distribution Shift. *NeurIPS 2023 Workshop on Distribution Shifts*.

EMNLP Findings

Lasri, K., Quinta de Castro, P., **Schirmer, M.**, San Martin, L., Wang, L., Dulka, T., Naushan, H., Pougué-Biyong, J., Legovini, A., Fraiberger, S. (2023) EconBERTa: Towards Robust Extraction of Named Entities in Economics. *EMNLP Findings*.

ICML

**Schirmer, M.**, Eltayeb, M., Lessmann, S., Rudolph, M. (2022) Modeling Irregular Time Series with Continuous Recurrent Units. *International Conference of Machine Learning*.

ML4ITS@ECML

**Schirmer, M.**, Eltayeb, M., Rudolph, M. (2021) Continuous-Discrete Recurrent Kalman Networks for Irregular Time Series. *ECML PKDD Workshop on Machine Learning for Irregular Time Series*.

## MISCELLANEOUS

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### Grants & Awards

Travel grant, DAAD (2019)  
Winner, Paris Peace Forum Hackathon (2018)  
Travel grant, DAAD (2017)  
Travel grant, DFJW (2017)  
Travel grant, Economic Society of Humboldt University (2017)  
Travel grant, University of Munich (2013)  
Merit Scholarship, Roland Berger Foundation (2009-2011)

### Reviewing

ICML 2023, 2024, 2025  
NeurIPS 2023, 2024, 2025

### Teaching

TA for Deep Learning II (Graduate, 2025)  
TA for Machine Learning I (Graduate, 2023)  
TA for Introduction to Machine Learning (Undergraduate, 2022)

### Professional Experience

Student Assistant Data Science @ Idalab Consulting, Berlin (2020-2021)  
Intern NLP @ OECD, Paris (2019)  
Project Student Machine Learning @ Deloitte, Paris (2019)  
Project Student Machine Learning @ Canal+, Paris (2018-2019)  
Student Assistant @ Chair of Statistics Humboldt University, Berlin (2016-2017)  
Student Assistant @ German Public Broadcaster ARD, Munich (2012-2015)