Pola Schwöbel

Probabilistic ML | Responsible AI | Science Communication

EDUCATION

2022 Postdoc in Probabilistic ML
Technical University of Denmark
supervision: Søren Hauberg

2022 PhD in Probabilistic ML
Technical University of Denmark
supervision: Søren Hauberg

2020 Visiting Scholar
Imperial College London
supervision: Mark van der Wilk

2018 MSc IT & Cognition
University of Copenhagen

2016 BSc Mathematics & Philosophy
Technical University Berlin

2013 Erasmus semester in Portugal

EXTRA CURRICULAR

2022 5+ years of yoga and
mindfulness practice

2019 Algorithmic Fairness
Copenhagen reading group

2019 Organized fair ML summer
school and meetup.

2018 Volunteer at WiML/NeurIPS

2018 Coding coach at Rails Girls

Contact

pola.schwoebel@gmail.com
https://twitter.com/pola_schwoebel
Google Scholar

RESEARCH OUTPUT

Publications

2022 **Schwöbel** and Remmers (equal contribution)
The Long Arc of Fairness: Formalisations and Ethical
Discourse, ACM FAccT

2022 **Schwöbel**, Warburg, Jørgensen, Madsen and Hauberg
Probabilistic Spatial Transformer Networks
38th UAI [PyTorch]

2022 **Schwöbel,** Jørgensen, Ober and Van Der Wilk
Last Layer Marginal Likelihood for Invariance Learning
25th AISTATS [TensorFlow]

Other contributions

2022 Presented PhD thesis work at the ACM FAccT doctoral
consortium.

2018 Presented MSc thesis work at Women in ML Workshop
at NeurIPS and received a travel grant.

PROFESSIONAL EXPERIENCE

Applied Scientist, Amazon 01/2023 – today

- I work on Responsible AI products and do research.

Applied Scientist Intern, Amazon 07/2021 – 11/2021

- Internship in Cambridge, UK with James Hensman.
- I developed a GP model for distribution regression and
applied it in two complex Amazon business cases.

Data Scientist (part time), 2015 – 2017

- Student jobs at Founders, Pleo, and Searchmetrics.
- Worked with recommender systems, image recognition and
data visualization in start-up/scale-up data science teams.

SCIENCE COMMUNICATION

Teaching and invited talks

- Teaching assistant in the courses "DeepLearning"(MSc),
"Vision and Image Processing" (MSc), "LinAlg and
Optimisation" (BSc) and "Introduction to Data Science" (BSc).
- Supervised MSc thesis projects and course work on deep
learning, Bayesian methods, computer vision and fairness.
- "The Long Arc of Fairness", PhD school on Algorithmic
Fairness at University of Copenhagen, 03/2022
- "Can We Get our ML Algorithms to Behave Ethically, and
Should We Try?", Delivery Hero, Berlin, 12/2020
- "Bias in, Bias out? Building Fair Models from Imbalanced
Data", AI Expo at DTU Skylab, 09/2019

Writing and interviews

2021 Human Brain Project Co-Create Podcast

2021 Gradient prize finalist article: "Justitia ex Machina: The
Case for Automating Morals"