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

REFERENCES

Søren Hauberg, PhD advisor,
sohau@dtu.dk

James Hensman, Amazon internship
advisor, james.hensman@gmail.com

Peter Remmers, collaborator & project
advisor, peter.remmers@tu-berlin.de

Mark van der Wilk, external stay advi-
sor, m.vdwilk@imperial.ac.uk

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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"