

Pola Schwöbel

Probabilistic ML // AI Ethics // Science Communication

EDUCATION

- 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

References available upon request.

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 Conference on Uncertainty in Artificial Intelligence
- 2022 **Schwöbel**, Jørgensen, Ober and Van Der Wilk
[Last Layer Marginal Likelihood for Invariance Learning](#)
25th International Conference on AI and Statistics

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 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 talks

Teaching 2017 – 2022

- 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.

Invited Speaker 2019 – 2022

- "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](#)"

Contact

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[Google Scholar](#)