

# Pola Schwöbel

Probabilistic ML | Responsible AI

## 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**  
Technical University Berlin
- 2013 Erasmus semester in Portugal

## EXTRA CURRICULAR

- 2024 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.

## Contact

[pola.schwoebel@gmail.com](mailto:pola.schwoebel@gmail.com)

[Twitter/X](#)

[Google Scholar](#)

## RESEARCH OUTPUT

### Publications (selection)

- 2023 **Schwöbel**, Golebiowski, Donini, Archambeau & Pruthi  
[Geographical Erasure in Language Generation](#)  
EMNLP 2023 Findings
- 2022 **Schwöbel** & Remmers (equal contribution)  
[The Long Arc of Fairness: Formalisations and Ethical Discourse](#), ACM FAccT
- 2022 **Schwöbel**, Warburg, Jørgensen, Madsen & Hauberg  
[Probabilistic Spatial Transformer Networks](#)  
38th Conference on Uncertainty in Artificial Intelligence
- 2022 **Schwöbel**, Jørgensen, Ober & Van Der Wilk  
[Last Layer Marginal Likelihood for Invariance Learning](#)  
25th International Conference on AI and Statistics

## PROFESSIONAL EXPERIENCE

### Applied Scientist, Amazon 01/2023 – today

- I build 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 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 "Deep Learning" (MSc), "LinAlg and Optimisation" (BSc) and others.
- Supervised MSc thesis projects and course work on deep learning, Bayesian methods, computer vision and fairness.
- "AI Paper Spotlights – Geographical Erasure in Language Generation", Merantix, 2024
- "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](#)"