

**Agata Foryciarz**  
<https://agataf.github.io/>

Email: [agataf@stanford.edu](mailto:agataf@stanford.edu)

---

## WORK EXPERIENCE

---

Postdoctoral Researcher, Stanford Department of Epidemiology, Stanford, CA 2025-Present

---

## EDUCATION

---

*Ph.D.*, Computer Science, **Stanford University** 2025  
Research focus: evaluating health equity consequences of medical algorithms, algorithmic fairness  
*B.S.E.*, Computer Science (*magna cum laude*), **Princeton University** 2018  
Minor in Statistics and Machine Learning

---

## HONORS AND AWARDS

---

Stanford Medicine Rigor and Reproducibility Award 2025  
*Recognized as a member of the Health Policy Data Science Lab for the "highest standard of research at Stanford School of Medicine"*  
Stanford Center on Longevity New Map of Life Postdoctoral Fellowship 2025  
Perspektywy Women in Tech Poland Summit: Top 10 Women in AI (category: Fighting AI Bias) 2022  
Stanford Technology & Racial Equity Graduate Fellowship 2021  
Forbes Poland 25 Under 25 in Science 2021  
McCoy Family Center for Ethics in Society Graduate Fellowship 2020  
Nomination to Sigma Xi, a Scientific Research Honor Society 2018  
Best Paper in Mathematics & Computer Science, Yale Undergraduate Research Conference 2017

---

## PUBLICATIONS

---

**Foryciarz A\***, Srivathsa N\*, Sedan O, Rosas LG, Rose S. A participatory approach for understanding social drivers of chronic kidney disease progression. *Under review*.

**Foryciarz A**, Alarid-Escudero F, Basel G, Cusick M, Phillips RL, Bazemore A, Adams AS and Rose S. [A microsimulation-based framework for mitigating societal bias in primary care data](#). *Under revision*.

**Foryciarz A**, Gladish N, Rehkopf DH, Rose S. [Incorporating area-level social drivers of health in predictive algorithms using electronic health record data](#). *Journal of the American Medical Informatics Association*. 2025 Jan 20; ocaf009.

**Foryciarz A**, Pfohl SR, Patel B, Shah N. [Evaluating algorithmic fairness in the presence of clinical guidelines: the case of atherosclerotic cardiovascular disease risk estimation](#). *BMJ Health & Care Informatics*. 2022 Apr 1;29(1):e100460-e100460.

Xu Y, **Foryciarz A**, Steinberg E, Shah NH. [Clinical utility gains from incorporating comorbidity and geographic location information into risk estimation equations for atherosclerotic cardiovascular disease](#). *Journal of the American Medical Informatics Association*. 2023 May 1;30(5):878-87.

Pfohl SR, Zhang H, Xu Y, **Foryciarz A**, Ghassemi M, Shah NH. [A comparison of approaches to improve worst-case predictive model performance over patient subpopulations](#). *Scientific Reports*. 2022 Feb 28; 12(1):3254.

Pfohl SR, Xu Y, **Foryciarz A**, Ignatiadis N, Jenkins J, Shah NH. [Net benefit, calibration, threshold selection, and training objectives for algorithmic fairness in healthcare](#). *Proceedings of the 2022 ACM Conference on Fairness, Accountability, and Transparency*. 2022 Jun 21:1039-1052.

Pfohl SR, **Foryciarz A**, Shah NH. [An empirical characterization of fair machine learning for clinical risk prediction](#). *Journal of Biomedical Informatics*. 2021 Jan 1;113:103621.

G Campagna, **Foryciarz A**, Moradshahi M, Lam MS. [Zero-shot transfer learning with synthesized data for multi-domain dialogue state tracking](#). *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics*. 2020 Jul;122-132.

Pfohl RS, **Foryciarz A** and Shah NH. [Promoting Algorithmic Fairness in Clinical Risk Prediction](#). Stanford University Human-Centered AI Institute (HAI) Policy Brief (2022).

## CONTRIBUTIONS TO POLICY REPORTS

---

[Input on the European Commission White Paper “On Artificial Intelligence – A European approach to excellence and trust”](#). Stanford University Wonks and Techies, 2020.

[Who \(really\) targets you? Facebook in Polish election campaigns](#). Panoptikon Foundation, ePaństwo Foundation, Sotrender, 2020.

[Sztuczna Inteligencja Non-Fiction](#). Panoptikon Foundation, 2020.

[The AI Index 2019 Annual Report](#). AI Index Steering Committee, Human-Centered AI Institute, Stanford University, 2019.

## PATENTS

---

**Foryciarz A**, Dean DA, II. [Generation and use of simulated genomic data](#). US Patent no. US10629292B2.

## TALKS AND PRESENTATIONS

---

A microsimulation-based framework for mitigating societal bias in primary care data.

- Invited Session at the Joint Statistical Meetings 2024 ([Paper Presentation](#))
- RAND Statistics Group (Seminar)
- International Conference on Health Policy Statistics 2025 (Paper Presentation)

Clinical Impact of Satisfying Group Fairness Constraints in Revised Pooled Cohort Equations.

- American Medical Informatics Association 2021 Virtual Informatics Summit (Podium Abstract)

Fairness in machine learning for health.

- Women in Cyber Security Scotland 2021 (Talk)

AI non-fiction - współczesne wyzwania i nadzieje

- Digital Cultures 2020, Instytut Adama Mickiewicza ([Online seminar](#))
- Strefa Psyche Uniwersytetu SWPS 2020 ([Online seminar](#))
- Konferencja Sektor 3.0 2020 ([Seminar](#))

Where do Algorithmic Accountability and Explainability Frameworks Take Us in the Real World?

- The ACM Conference of Fairness, Accountability and Transparency 2020 ([Conference Session](#))

Mitochondrial Size Gradients in Cortical Neurons Revealed by 3D Electron Microscopy

- Society for Neuroscience Conference 2018 ([Poster](#))

Identification of allele-specific eQTLs using a Poisson generalized linear model

- Workshop for Women in Machine Learning at the Conference on Neural Information Processing Systems 2017 ([Poster Presentation](#))

## POPULAR PRESS

---

### Articles

- Kalluri R, Gillespie L, **Foryciarz A**, Elhai W, Srivastava S, Panezi A, Einstein L. [If We're Not Careful, Tech Could Hurt the Fight against COVID-19](#). *Scientific American Blog*, 2020.

- **Agata Foryciarz**, Daniel Leufer, Katarzyna Szymielewicz. [Black-Boxed Politics: Opacity is a Choice in AI Systems](#). *Medium* and *Internazionale* (Italian translation), 2020.

## Interviews

- Dane, uprzedzenie i krzywda z algorytmu, *Sztuczna Inteligencja*, 2020 ([Newspaper interview](#))
- Czy sztuczna inteligencja może być obiektywna? *Człowiek 2.0*, *Radio Tok FM*, 2019 ([Radio interview](#))
- AI Non-Fiction. *Panoptykon 4.0*, *Radio Tok FM* ([Radio interview](#))

## TEACHING

---

Teaching Assistant, Stanford CS 281: Ethics of Artificial Intelligence	2023
Instructor and course developer, Introductory Python course, Koło Programistek Miejskich	2018

## INDUSTRY EXPERIENCE

---

Data Science Intern, The New York Times, New York, NY	2018
Machine Learning Intern, Autodesk, San Francisco, CA	2017
Bioinformatics Intern, Seven Bridges Genomics, Cambridge, MA	2016

## REVIEWING AND SERVICE

---

Reviewer, ACM Conference on Fairness, Accountability and Transparency	2022
Reviewer, Conference on Health, Inference, and Learning	2022
Founder & co-organizer, Computing & Society, Stanford University <i>A graduate reading and advocacy group</i>	2019-2021
Reviewer, BMJ Health Care & Informatics	2021
Reviewer, AMIA Virtual Informatics Summit	2021
Co-organizer & reviewer, NeurIPS Resistance AI Workshop	2020
Co-organizer, HAI-AI Index Workshop Measurement in AI Policy	2019
Reviewer, NeurIPS Women in Machine Learning Workshop	2017

## SKILLS

---

**Programming:** Python, SQL, R, Java, C

**Technologies:** GCP, Git, PyTorch, scikit-learn, Docker

**Data Analysis:** statistical analysis, Bayesian modeling, machine learning, parallel computing

**Languages:** Polish (Native), English (Bilingual), Spanish, Portuguese (working proficiency)