

CURRICULUM VITAE

Agata Foryciarz, PhD

PROFESSIONAL DATA

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Pronouns: she/her/hers

EDUCATION AND TRAINING

PhD	2025	Stanford University	Computer Science (Biostatistics, Machine Learning) Dissertation: Statistical and mixed-methods approaches for analyzing health consequences of medical algorithms Thesis Advisor: Sherri Rose (Health Policy)
BSE	2018	Princeton University	Computer Science, Statistics and Machine Learning

PROFESSIONAL EXPERIENCE

Stanford University

Postdoctoral Researcher. Department of Epidemiology and Population Health, Stanford University School of Medicine. September 2025–Present.

Postdoctoral Fellow. Stanford Center on Longevity, Stanford University. September 2025–Present.

PROFESSIONAL EXPERIENCE

Society Memberships

2026-present	Society for Epidemiologic Research
2022-present	Society for Medical Decision Making
2022-present	American Statistical Society
2020	American Medical Informatics Association
2018	Sigma Xi, The Scientific Research Honor Society

EDITORIAL AND PEER REVIEW ACTIVITIES

Journal Peer Review Activities

Npj Digital Medicine
BMJ Health Care & Informatics

Conference Abstract and Paper Peer Reviews

2026 Society of Medical Decision Making
2023 ACM Conference on Fairness, Accountability and Transparency
2023 Conference on Health, Inference, and Learning
2021 AMIA Virtual Informatics Summit
2021 NeurIPS Resistance AI Workshop
2019 HAI-AI Index Workshop Measurement in AI Policy
2017 NeurIPS Women in Machine Learning Workshop

HONORS AND AWARDS

Awards

2025 Stanford Medicine Rigor and Reproducibility Award
Recognized as a member of the Health Policy Data Science Lab for the “highest standard of research at Stanford School of Medicine”
2025 Stanford Center on Longevity New Map of Life Postdoctoral Fellowship (2 years of full funding)
2022 Perspektywy Women in Tech Poland Summit: Top 10 Women in AI (category: Fighting AI Bias)
2021 Stanford Technology & Racial Equity Graduate Fellowship
2021 Forbes Poland 25 Under 25 in Science
2020 McCoy Family Center for Ethics in Society Graduate Fellowship
2018 Nomination to Sigma Xi, a Scientific Research Honor Society
2017 Best Paper in Mathematics & Computer Science, Yale Undergraduate Research Conference

PUBLICATIONS

Journal Articles (peer-reviewed)

1. **Foryciarz A**, Alarid-Escudero F, Basel G, Cusick M, Phillips RL, Bazemore A, Adams A, Rose S. A microsimulation-based approach for mitigating societal bias in chronic kidney disease data. Medical Decision Making. 2026:0272989X261432162.
2. **Foryciarz A***, Srivathsa N*, Sedan O, Goldman Rosas L, Rose S. Causal modeling of chronic kidney disease in a participatory framework for informing the inclusion of social drivers in health algorithms. Journal of the American Medical Informatics Association. 2026 Feb 10:ocag019.
3. **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 Mar;32(3):595-601.

4. 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.
5. **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 8;29(1):e100460.
6. Pfohl S, Xu Y, **Foryciarz A**, Ignatiadis N, Jenkins J, Shah N. Net benefit, calibration, threshold selection, and training objectives for algorithmic fairness in healthcare. In *Proceedings of the 2022 ACM Conference on Fairness, Accountability, and Transparency* 2022 Jun 21 (pp. 1039-1052).
7. 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.
8. 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.
9. Campagna G, **Foryciarz A**, Moradshahi M, Lam M. Zero-shot transfer learning with synthesized data for multi-domain dialogue state tracking. In *Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics*. 2020 Jul:122-132.

Preprints

1. Nakamoto CH, Chen LL, **Foryciarz A**, Rose S. Penalized fair regression for multiple groups in chronic kidney disease.

PRACTICE ACTIVITIES

Practice-Related Reports

1. Promoting Algorithmic Fairness in Clinical Risk Prediction. Stanford University Human-Centered AI Institute (HAI) Policy Brief (2022).
2. Input on the European Commission White Paper “On Artificial Intelligence – A European approach to excellence and trust”. Stanford University Wonks and Techies, 2020.
3. Who (really) targets you? Facebook in Polish election campaigns. Panoptykon Foundation, ePaństwo Foundation, Sotrender, 2020.
4. Sztuczna Inteligencja Non-Fiction. Panoptykon Foundation, 2020.
5. The AI Index 2019 Annual Report. AI Index Steering Committee, Human-Centered AI Institute, Stanford University, 2019.

Patents

1. **Foryciarz A**, Dean DA, II. Generation and use of simulated genomic data. US Patent no. US10629292B2.

Media Dissemination

1. If We're Not Careful, Tech Could Hurt the Fight against COVID-19. Ria Kalluri, Lauren Gillespie, Agata Foryciarz, Wren Elhai, Sanjana Srivastava, Argyri Panezi, Lisa Einstein. Scientific American Blog, 2020.
2. Black-Boxed Politics: Opacity is a Choice in AI Systems. Agata Foryciarz, Daniel Leufer, Katarzyna Szymielewicz. Medium and Internazionale (Italian translation)

TEACHING

Classroom Instruction

Course developer and instructor, Stanford BIODS: Evaluating algorithms as health policies with microsimulation methods (upcoming)	2027
Teaching Assistant, Stanford CS 281: Ethics of Artificial Intelligence	2023

Short Courses and Curriculum Development

Instructor and course developer, Introductory Python course, Koło Programistek Miejskich	2019
Inaugural year course developer, Princeton AI4ALL, summer camp for low-income high schoolers	2018

ACADEMIC SERVICE

2019-2021	Founder & co-organizer, Computing & Society <i>A graduate reading and advocacy group</i>	Stanford University
2020-2021	Organizer, NeurIPS Resistance AI Workshop	Stanford University

PRESENTATIONS

Scientific Meetings

- 23rd IAGG World Congress of Gerontology and Geriatrics 2026 (Oral Presentation)
- Society for Medical Decision Making Annual Meeting 2026 (Poster Presentation)
- Society for Epidemiologic Research Annual Meeting 2026 (Poster Presentation)
- International Conference on Health Policy Statistics 2025 (Paper Presentation)
- Joint Statistical Meetings 2024 (Invited Session)
- American Medical Informatics Association 2021 Virtual Informatics Summit (Podium Abstract)
- The ACM Conference of Fairness, Accountability and Transparency 2020 (Leading a Conference Session)

- Society for Neuroscience Conference 2018 (Poster Presentation)
- Workshop for Women in Machine Learning at the Conference on Neural Information Processing Systems 2017 (Poster Presentation)

Invited Seminars and Guest Lectures

- EPI 272: The Science of Community Engagement in Health Research (Guest Lecture)
- RAND Statistics Group (Seminar)

Science Popularization

- Women in Cyber Security Scotland 2021 (Talk)
- Digital Cultures 2020, Instytut Adama Mickiewicza (Online conference seminar)
- Strefa Psyche Uniwersytetu SWPS 2020 (Online conference seminar)
- Konferencja Sektor 3.0 2020 (Conference seminar)

Radio, Popular Press and Podcasts (Polish)

- 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. Panoptikon 4.0, Radio Tok FM (Radio interview)

REFERENCES

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