

Anna Zink
Assistant Professor
Department of Community Health
Tufts University
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EDUCATION

Harvard University Doctor of Philosophy, Health Policy Secondary Field, Computational Science and Engineering	Cambridge, MA 2022
Carleton College Bachelor of Arts, Mathematics	Northfield, MN 2011
Oxford University Independent Study, Chaotic Dynamics and Discrete Mathematics	Oxford, England Fall 2009

WORK EXPERIENCE

Chicago Booth Center for Applied AI <i>Principal Researcher</i>	Chicago, IL 2022 – 2025
athenahealth <i>Senior Data Engineer</i>	Watertown, MA 2015 – 2017
Center for Biostatistics and AIDS Research <i>SAS Programmer II</i>	Boston, MA 2013 – 2015
Acumen LLC <i>Research and Policy Analyst</i>	Burlingame, CA 2011 – 2013

AWARDS & HONORS

Neubauer Faculty Fellow, Tufts University	2025 - 2026
Google Research Scholar Award (with Irene Chen)	2024
NSF Graduate Research Fellowship Program	2019 – 2022

WORKING PAPERS

Knecht J, **Zink A**, Kolstad J, Peterson M. Deep Causal Behavioral Policy Learning: Applications in Healthcare. <https://arxiv.org/abs/2503.03724>.

PUBLICATIONS

Zink A, Chernew M, Neprash HT (2026). Practice Pattern Changes After Adoption of Diagnostic AI Tool Used in Conjunction with Cardiac Imaging. *Health Affairs*.

Zink A, Lou H, Chen IY (2026). Access to care affects electronic health record reliability and AI-driven disease prediction. *Nature Health*.

Hussein R, **Zink A**, et al. (2026). Advancing Healthcare AI Governance Through a Comprehensive Maturity Model Based on Systematic Review. *NPJ Digital Medicine*.

Chien CV, **Zink A**, Chen IY (2025). Bridging Research Gaps Between Academic Research and Legal Investigations of Algorithmic Discrimination. *Proceedings of the AAAI/ACM Conference on AI, Ethics, and Society*.

Zink A, Wehrly D, et al. (2025). Trends in Prescription Use & Spending Following the Introduction of a Real-Time Prescription Benefit tool. *JAMA Network Open*.

Suriyakumar V.M., **Zink A**, et al. (2025). Computation Challenges Arising in Algorithmic Fairness and Health Equity with Generative AI. *Nature Computational Science*.

Chen I.Y. and **Zink A** (2025). AI Tools in Human Hands: Measuring Real-World Impact in the Emergency Department. *NEJM AI*.

Zink A, Obermeyer Z, Pierson E (2024). Race Adjustments in Clinical Algorithms Can Help Correct for Racial Disparities in Data Quality. *PNAS*.

Zink A, Chernew M, Neprash HT (2024). How Should Medicare Pay for Artificial Intelligence? *JAMA Internal Medicine* May.

Zink A, Boone C, Maddox KJ, Chernew M, Neprash H (2024). Artificial Intelligence in Medicare: Utilization, Spending, and Access to Medicare-Covered AI-Enabled Clinical Software. *The American Journal of Managed Care* 30.

Boone C, **Zink A**, Robicsek A, Wright B (2024). Value-Based Contracting in Real World Care. *JAMA Health Forum* 5(8).

Cary MP Jr, **Zink A**, et al. (2023). Mitigating Racial and Ethnic Bias and Advancing Health Equity in Clinical Algorithms: A Scoping Review. *Health Affairs* 42(10).

Zink A and Rose S (2021). Identifying Undercompensated Groups Defined by Multiple Attributes in Risk Adjustment. *BMJ Health & Care Informatics* 28(1).

Neprash HT, **Zink A**, Sheridan B, Hempstead K (2021). The Effect of Medicaid Expansion on Medicaid Participation, Payer Mix, and Labor Supply in Primary Care. *Journal of Health Economics* 80: 102541.

McGuire T, **Zink A**, Rose S (2021). Improving the Performance of Risk Adjustment Systems: Constrained Regressions, Reinsurance, and Variable Selection. Forthcoming in *American Journal of Health Economics*.

Zink A and Rose S (2020). Fair Regression for Health Care Spending. *Biometrics* 76(3): 973-982.

Neprash HT, **Zink A**, Gray J, Hempstead K (2018). Physicians' Participation in Medicaid Increased Only Slightly Following Expansion. *Health Affairs* 37:1087-91.

Barnett ML, Gray J, **Zink A** and Jena AB (2017). Coupling Policymaking with Evaluation — The Case of the Opioid Crisis. *New England Journal of Medicine* 377: 2306-2309.

Hempstead K, Gray J, **Zink A** (2017). Reframing the Unaffordability Debate: Patient Responsibility for Physician Care. *American Journal of Managed Care* 23(11).

Santillana M, Nguyen AT, Louie T, **Zink A**, Gray J, Sung I (2016). Cloud-based Electronic Health Records for Real-time, Region-specific Influenza Surveillance. *Scientific Reports* 6, 25732.

WHITE PAPERS, POLICY BRIEFS, AND EDITORIALS

Zink A, Morriss S, Gangopadhyaya A, Obermeyer Z (2023). Building Equitable Artificial Intelligence in Health Care, *Urban Institute*.

Zink A, McGuire T, Rose S (2022). Balancing fairness and efficiency in health plan payments, *Stanford HAI Policy Briefs*.

Gray J, **Zink A**, Dreyfus T. Effects of the Affordable Care Act through 2015 (2016). *Robert Wood Johnson Foundation and athenahealth*.

GRANTS AND FUNDING

Title: Closing the Gap: Evaluating and Improving Clinical Risk Prediction Models for Patients with Lower Access to Care

Sponsor: Google

Project period: 1/2024 – 1/2025

Role: Co-Principal Investigator (with Irene Chen)

Title: The Effect of AI-Enabled Clinical Software on Health Care Spending and Health Outcomes

Sponsor: National Institute for Health Care Management

Project period: 1/2024 – 1/2025

Role: Co-Principal Investigator (with Hannah Neprash)

Title: Predictive Clinical Model Audits in Health Care: A Multi-Centered Pragmatic Implementation to Inform Practice

Sponsor: Gordan and Betty Moore Foundation

Project period: 8/2023 – 4/2025

Role: Co-Investigator (PI: Brett Beaulieu-Jones)

PRESENTATIONS

<i>Nurse Decision Making During Triage and the Value of Algorithmic Intervention</i> INFORMS	2025
<i>Pactice Pattern Changes After Adoption of Diagnostic Artificial Intelligence</i> ASHEcon	2025
<i>Nurse Decision Making During Triage and the Value of Algorithmic Intervention</i> ASHEcon	2025
<i>Nurse Decision Making During Triage and the Value of Algorithmic Intervention</i> Canadian Health Economists' Study Group Conference	2025
<i>Machine Learning for Social Science Research</i> Guest Lecture for the GHP 228, Harvard University	2025
<i>Evaluating and Improving Clinical Risk Prediction Models for Patients with Lower Access to Care</i> International Conference on Health Policy and Statistics (ICHPS)	2025
<i>Evaluating and Improving Clinical Risk Prediction Models for Patients with Lower Access to Care</i> Joint Statistical Meeting (JSM)	2024
<i>Advancing Clinical Decision-Making During Triage with Machine Learning</i> HP/CHIBE Work-in-Progress Research Seminar, UPenn	2024
<i>Effect of Real Time Prescription Benefit Check Tool on Use and Cost of Prescription Drugs</i> ASHEcon	2023
<i>Machine Learning Methods to Evaluate and Improve U.S. Health Policy</i> Guest Lecture for the Machine Learning for Public Policy Class, University of Chicago	2023
<i>AI in Medicare</i> Healthcare Initiative Brownbag Session, University of Chicago	2023

<i>No Longer Asking Permission: Medicaid Prior Authorization Policy & Physician Prescribing Behavior</i>	2022
ASHEcon	
<i>New Advances for Fairness in Plan Payment Risk Adjustment</i>	2021
Joint Statistical Meeting (JSM)	
<i>What Does a Formulary Do? Evidence from Drug Plan Assignment in Medicare Part D</i>	2021
ASHEcon	
<i>Identifying Undercompensated Groups Defined by Multiple Attributes in Risk Adjustment</i>	2020
International Risk Adjustment Network Meeting	
<i>Identifying Undercompensated Groups Defined by Multiple Attributes in Risk Adjustment</i>	2020
Joint Statistical Meeting (JSM)	
<i>Fair Regression for Health Care Spending</i>	2019
International Risk Adjustment Network Meeting	
<i>Fair Regression for Health Care Spending</i>	2019
INFORMS Healthcare Conference	
<i>Fair Regression for Health Care Spending</i>	2019
ASHEcon	

TEACHING EXPERIENCE

Instructor, AI and Health: Impact, Equity, and Policy, Tufts University	Fall 2025, Spring 2026
Teaching Assistant, Econometric Methods in Impact Evaluation, Harvard School of Public Health	2021
Teaching Assistant, The Quality of the U.S. Health Care System, Harvard College	2019 - 2020
Lecturer, Math Camp for incoming Health Policy PhD students	2019 - 2021
Tutor, Statistical Sleuthing through Linear Models, Harvard College	2019

PROFESSIONAL SERVICE

Grant Reviewer: NIHCM

Ad Hoc Referee: AJMC, Health Affairs, Health Services Research, Journal of Health Economics, JAMA Health Forum, New England Journal of Medicine (NEJM), NEJM AI

Conference Committee: Conference on Health, Inference, and Learning Track Chair (2026)

Conference Abstract Reviewer: Conference on Health, Inference, and Learning (2025, 2023), ACM Conference on Fairness, Accountability, and Transparency (2023, 2022), NeurIPS (2022)

Professional Memberships: American Society of Health Economists, American Statistical Association