

**Anna Zink**  
Assistant Professor  
Department of Community Health  
Tufts University  
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## EDUCATION

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

## WORK EXPERIENCE

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

## AWARDS & HONORS

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<b>Google Research Scholar Award</b> (with Irene Chen)	2024
<b>NSF Graduate Research Fellowship Program</b>	2019 – 2022

## WORK IN PROGRESS

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**The Effect of AI-Enabled Clinical Software on Health Care Spending and Health Outcomes** (with Hannah Neprash and Michael Chernew)

**Learning About Decision-Making During Triage with Machine Learning** (with Claire Boone, Ziad Obermeyer, Ari Robicsek, and Bill Wright)

## WORKING PAPERS

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**Zink A, Lou H, Chen I.** Evaluating and Improving Clinical Risk Prediction Models for Patients with Lower Access to Care. <https://www.arxiv.org/pdf/2412.07712>.

Hussein R, **Zink A**, et al. Advancing Healthcare AI Governance: A comprehensive maturity model based on systematic review. <https://www.medrxiv.org/content/10.1101/2024.12.30.24319785v.1>.

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

## PUBLICATIONS

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**Zink A**, Wehrly D, et al. (2005). 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

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**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

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**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

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<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 &amp; Physician Prescribing Behavior</i> ASHEcon	2022
<i>New Advances for Fairness in Plan Payment Risk Adjustment</i> Joint Statistical Meeting (JSM)	2021
<i>What Does a Formulary Do? Evidence from Drug Plan Assignment in Medicare Part D</i>	2021

ASHEcon

*Identifying Undercompensated Groups Defined by Multiple Attributes in Risk Adjustment* 2020  
International Risk Adjustment Network Meeting

*Identifying Undercompensated Groups Defined by Multiple Attributes in Risk Adjustment* 2020  
Joint Statistical Meeting (JSM)

*Fair Regression for Health Care Spending* 2019  
International Risk Adjustment Network Meeting

*Fair Regression for Health Care Spending* 2019  
INFORMS Healthcare Conference

*Fair Regression for Health Care Spending* 2019  
ASHEcon

## TEACHING EXPERIENCE

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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

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**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 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