

Anna Zink

Principal Researcher
Center for Applied AI at Chicago Booth
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EDUCATION

- 2022 PhD in Health Policy
Secondary Field: Computational Science and Engineering
Committee: Sherri Rose, Timothy Layton, Michael McWilliams
Harvard University, Cambridge, MA
- 2011 BA in Mathematics
Carleton College, Northfield, MN
- Fall 2009 Independent Studies in Chaotic Dynamics and Discrete Mathematics
Oxford University, Oxford, England

WORK EXPERIENCE

- 2022 – present Principal Researcher, Center for Applied AI, Chicago, IL
- 2015 – 2017 Senior Data Engineer, athenahealth, Watertown, MA
- 2013 – 2015 SAS Programmer II, Center for Biostatistics in AIDS Research, Boston, MA
- 2011 – 2013 Research and Policy Analyst, Acumen LLC, Burlingame, CA

AWARDS & HONORS

- 2019 – 2022 NSF Graduate Research Fellowship Program (GRFP)

WORKING PAPERS

Zink A, Obermeyer Z, Pierson E. Race Correction in Clinical Algorithms Can Correct for Racial Disparities in Data Quality.

PUBLICATIONS

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*. Forthcoming.

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).

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.

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

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, ETC.

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: 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

- 2023 Effect of Real Time Prescription Benefit Check Tool on Use and Cost of Prescription Drugs, ASHEcon
- 2023 Machine Learning Methods to Evaluate and Improve U.S. Health Policy, Guest Lecture for the Machine Learning for Public Policy Class, University of Chicago
- 2023 AI in Medicare, Healthcare Initiative Brownbag Session, University of Chicago
- 2022 No Longer Asking Permission: Medicaid Prior Authorization Policy and Physician Prescribing Behavior, ASHEcon
- 2021 New Advances for Fairness in Plan Payment Risk Adjustment, JSM
- 2021 What Does a Formulary Do? Evidence from Drug Plan Assignment in Medicare Part D, ASHEcon
- 2020 Identifying Undercompensated Groups Defined by Multiple Attributes in Risk Adjustment, International Risk Adjustment Network Meeting

- 2020 Identifying Undercompensated Groups Defined by Multiple Attributes in Risk Adjustment, JSM
- 2019 Fair Regression for Health Care Spending, International Risk Adjustment Network Meeting
- 2019 Fair Regression for Health Care Spending, INFORMS Healthcare Conference
- 2019 Fair Regression for Health Care Spending, ASHEcon

TEACHING EXPERIENCE

Teaching Assistant

- 2021 Econometric Methods in Impact Evaluation, Harvard School of Public Health
- 2019, 2020 The Quality of the U.S. Health Care System, Harvard College

Other Teaching

- 2019 - 2021 Lecturer, Math Camp for incoming Health Policy PhD students
- 2019 Tutor, Statistical Sleuthing through Linear Models, Harvard College

PROFESSIONAL SERVICE

Ad Hoc Referee: AJMC, Health Affairs, Health Services Research, Journal of Health Economics, JAMA Health Forum

Conference Abstract Reviewer: Conference on Health, Inference, and Learning (CHIL), NeurIPS

Program Committee: ACM Conference on Fairness, Accountability, and Transparency

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