

# 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

## HONORS & AWARDS

- 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.

**Zink A**, Boone C, Maddox KJ, Chernew M, Neprash H. Artificial Intelligence in Medicare: Utilization, Spending, and Access to Medicare-Covered AI-Enabled Clinical Software.

Carey MC, **Zink A**, et al. Mitigating Bias and Advancing Health Equity in the Development, Evaluation, and Deployment of Clinical Algorithms in Healthcare: A Scoping Review and Implications for Policy.

## PUBLICATIONS

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**, 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.

## **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 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

*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