Anna Zink

Principal Researcher
Center for Applied AI at Chicago Booth
azink@uchicago.edu

EDUCATION

Harvard University   Cambridge, MA
Doctor of Philosophy, Health Policy   2022
Secondary Field, Computational Science and Engineering

Carleton College   Northfield, MN
Bachelor of Arts, Mathematics   2011

Oxford University   Oxford, England
Independent Study, Chaotic Dynamics and Discrete Mathematics   Fall 2009

WORK EXPERIENCE

Chicago Booth Center for Applied AI   Chicago, IL
Principal Researcher   2022 – present

Risk Segmentation, Stratification and Tiering Working Group, State of CA DHCS   Sacramento, CA
Working Group Member   2022 – present

athenahealth   Watertown, MA
Senior Data Engineer   2015 – 2017

Center for Biostatistics and AIDS Research   Boston, MA
SAS Programmer II   2013 – 2015

Acumen LLC   Burlingame, CA
Research and Policy Analyst   2011 – 2013

AWARDS & HONORS

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

WORK IN PROGRESS

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

Zink A, Lou H, Chen I. Evaluating and Improving Clinical Risk Prediction Models for Patients with Lower Access to Care.

Zink A, Wherly D, et al. The Effect of Real-Time Prescription Benefit Tools on Prescription Use and Spending.

PUBLICATIONS

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

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

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.

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: 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

Evaluating and Improving Clinical Risk Prediction Models for Patients with Lower Access to Care Joint Statistical Meeting (JSM)	2024
Advancing Clinical Decision-Making During Triage with Machine Learning HP/CHIBE Work-in-Progress Research Seminar, UPenn	2024
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	2023
No Longer Asking Permission: Medicaid Prior Authorization Policy & Physician Prescribing Behavior ASHEcon	2022
New Advances for Fairness in Plan Payment Risk Adjustment Joint Statistical Meeting (JSM)	2021
What Does a Formulary Do? Evidence from Drug Plan Assignment in Medicare Part D ASHEcon	2021
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 Joint Statistical Meeting (JSM)	2020
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	2019

TEACHING EXPERIENCE

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

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 (2023), ACM Conference on Fairness, Accountability, and Transparency (2022-2023), NeurIPS (2022)

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