ALYSSA BILINSKI

Brown University School of Public Health
alyssa_bilinski@brown.edu

ACADEMIC APPOINTMENTS

Brown University School of Public Health July 2021-
Peterson Family Foundation Assistant Professor of Health Policy
Department of Health Services, Policy, and Practice
Department of Biostatistics (Secondary)

Harvard TH Chan School of Public Health April 2024-
Department Associate
Department of Epidemiology

RESEARCH AFFILIATIONS

Brown University
Center for Evidence Synthesis in Health · Center for Advancing Health Policy through Research
Pandemic Center · Center for Gerontology & Healthcare Research
Data Science Institute · Annenberg Institute

External
Prevention Policy Modeling Lab (Stanford University School of Medicine)
Center for Communicable Disease Dynamics (Harvard TH Chan School of Public Health)

EDUCATION

Harvard University Aug. 2015 - May 2021
PhD in Health Policy (Evaluative Science and Statistics)
AM in Statistics

London School of Hygiene and Tropical Medicine Sept. 2014 - Nov. 2015
MS in Medical Statistics (Marshall Scholar) *With Distinction*

Yale University Aug. 2009 - May 2013
BA in Political Science (Health Policy Concentration) *Summa Cum Laude*
Distinction in Major & Phi Beta Kappa

PUBLICATIONS

* denotes equal contribution, † denotes trainee

Published and In Press

1. **Bilinski A.** "Why It's Unethical Not to Conduct Randomized Trials During Pregnancy." Provisional acceptance at *JAMA*.
2. †Jia Katherine Min, Boyer Chris, **Bilinski A**, Lipsitch M. "Defining and Estimating Outcomes Directly Averted by a Vaccination Program when Rollout Occurs Over Time." In press at *Epidemiology*. Available at `https://arxiv.org/abs/2509.05508`.
3. †Murray-Watson R, **Bilinski A**, Yaesoubi R. "Forecasting Local Surges in COVID-19 Hospitalizations through Adaptive Decision Tree Classifiers." In press at *Medical Decision Making*. Available at `https://www.medrxiv.org/content/10.1101/2024.09.12.24313570v1`.

4. **Bilinski A** and Hatfield L. "Nothing to See Here: A non-inferiority approach to parallel trends tests." In press at *Statistics in Medicine*.

5. **Bilinski** A and Emanuel E. "Oversights in global gynaecological disability measurement." *Lancet*, 2026, https://doi.org/10.1016/S0140-6736(25)01272-3.

6. †Yee K, **Bilinski A**, Lee Y. "Difference-in-differences analysis with repeated cross-sectional survey data," *Health Services and Outcomes Research Methodology*, 2025, https://doi.org/10.1007/s10742-025-00364-7.

7. †Feng S, Lee Y, Poe J, Ryan A, **Bilinski A**. "Difference-in-Differences for Health Policy and Practice: A review of modern methods." *Statistics in Medicine*, 2025, https://doi.org/10.1002/sim.70247.

8. ***Bilinski A**, *Emanuel N, and Ciaranello A. "Sins of Omission: Model-based estimates of the health effects of excluding pregnant participants from randomized controlled trials." *Annals of Internal Medicine*, 2025, https://doi.org/10.7326/ANNALS-24-00689.

9. †Park R, **Bilinski A**, Parks R, Flaxman S. "Trends in Maternal, Fetal and Infant Mortality in the United States, 2000-2023." *JAMA Pediatrics*, 2025, https://doi.org/10.1001/jamapediatrics.2025.0440.

10. †**Bilinski A**. "Abortion May Be Controversial. Supporting Children Need Not Be." *JAMA*, 2025, https://doi.org/10.1001/jama.2025.0854.

11. **Bilinski A**, Emanuel N. "Fewer than 1% of Clinical Trials Include Pregnant Participants." American Journal of Obstetrics and Gynecology, https://doi.org/10.1016/j.ajog.2024.12.028.

12. †Lin E, **Bilinski A**, Collender P, Lee V, Sud S, León T, White L, Remais J, Head J. "Association between COVID-19 Incidence and Elementary School Attendance in California: A regression discontinuity analysis." JAMA Network Open, https://doi.org/10.1001/jamanetworkopen.2024.44836.

13. **Bilinski A** and Ganguli I. "Methodological Considerations for Difference-in-Differences." JAMA Internal Medicine, 2024, https://doi.org/10.2105/AJPH.2024.307741.

14. †Fortnam, T, Chambers L, **Bilinski A**, DeVito R, Gargano L, Wilson M, Hogan JW. "Evaluation of Rhode Island's Early Geographic COVID-19 Vaccine Prioritization Policy." American Journal of Public Health, 2024, https://doi.org/10.1001/jamainternmed.2024.4132.

15. †Dong S, *Jutkowitz E, Giardina J, ***Bilinski A**. "Screening Strategies to Reduce COVID-19 Mortality in Nursing Homes: A model-based cost-effectiveness analysis." JAMA Health Forum, 2024, https://doi.org/10.1001/jamahealthforum.2024.0688.

16. **Bilinski** A, Salomon JA, Hatfield L. "Adaptive Metrics for an Evolving Pandemic: A dynamic approach to area-level COVID-19 risk designations." PNAS. 2023, https://doi.org/10.1073/pnas.2302528120.

17. **Bilinski** A, †Slimovitch R, Mendlowitz A, Feld JJ, Salomon JA. "First Do No Harm? Modeling risks and benefits of challenge trials for hepatitis C vaccine development." Clin Infect Dis, 2023, https://doi.org/10.1093/cid/ciad379.

18. **Nelson S**, et. al. including **Bilinski A**. "Prevalence and Risk Factors for School-Associated Transmission of SARS-CoV-2." JAMA Health Forum, 2023, https://doi.org/10.1001/jamahealthforum.2023.2310.

19. †Kumar S, †Khunte M, Salomon JA, and **Bilinski A**. "Projected COVID-19 Mortality Reduction from Test-to-Treat: A model-based analysis." JAMA Health Forum, 2023, https://doi.org/10.1001/jamahealthforum.2023.0046.

20. Roth J, Sant'Anna P, **Bilinski A**, and Poe J. "What's Trending in Difference-in-Differences? A synthesis of the recent econometrics literature." Journal of Econometrics, 2023, https://doi.org/10.1016/j.jeconom.2023.03.008.

21. †Chitwood, †M, Kwon, J, †Savinkina A, †Walker J, **Bilinski A**, Gonsavles G. "Estimated Testing, Tracing, and Vaccination Targets for Containment of the US Mpox Outbreak." JAMA Network Open, 2023, https:doi.org/10.1001/jamanetworkopen.2022.50984.

22. **Bilinski A**, †Thompson K, and Emanuel E. "COVID-19 and Excess All-Cause Mortality in the US and 18 Comparison Countries by Vaccination Rate, March 2020-March 2022." JAMA, 2023, https://doi.org/10.1001/jama.2022.21795.

23. †Savinkina A, **Bilinski A**, Fitzpatrick M, Paltiel D, Rizvi Z, Salomon, JA, Thornhill T and Gonsalves, G. "Estimating Deaths Averted and Cost per Life Saved by Scaling up mRNA COVID-19 Vaccination in Low-income and Lower-middle-income countries in the COVID-19 Omicron Variant Era: A modelling study." BMJ Open, 2022, https://doi.org/10.1136/bmjopen-2022-061752.

24. Salomon JA and **Bilinski A**. "Evaluating the Performance of Centers for Disease Control and Prevention COVID-19 Community Levels as Leading Indicators of COVID-19 Mortality." Annals of Internal Medicine, 2022, https://doi.org/10.7326/M22-0803.

25. **Bilinski A**. "Determining the Optimal Length of Quarantine—Transmission, Social, and Economic Considerations." JAMA Network Open, 2022, 10.1001/jamanetworkopen.2022.0096.

26. **Bilinski A**, Ciaranello A, and Fitzpatrick MC, †Giardina J, Shah M, Salomon JA, and Kendall E. "SARS-CoV-2 Testing Strategies to Contain School-Associated Transmission: Model-based analysis of impact and cost of diagnostic testing, screening, and surveillance." JAMA Pediatrics, 2022, https://https://jamanetwork.com/journals/jamapediatrics/fullarticle/2791525.

27. **Bilinski A**, †MacKay E, Salomon JA, and Pandya A. "Affordability and Value in Decision Rules for Cost-Effectiveness: A survey of health economists." Value in Health, 2022, https://10.1016/j.jval.2021.11.1375.

28. †Giardina J, **Bilinski A**, Fitzpatrick M, Kendall E, Linas B, Salomon JA, and Ciaranello A. "Model-Estimated Association Between Simulated US Elementary School-Related SARS-CoV-2 Transmission, Mitigation Interventions, and Vaccine Coverage Across Local Incidence Levels." JAMA Network Open, 2022, https://10.1001/jamanetworkopen.2021.47827.

29. Haber N, et. al. including **Bilinski A**.. "Problems with Evidence Assessment in COVID-19 Health Policy Impact Evaluation (PEACHPIE): A systematic review of evidence strength." BMJ Open, 2022, https://doi.org/10.1136/bmjopen-2021-053820.

30. Salomon JA, Reinhart A, **Bilinski A**, et. al. "COVID Trends and Impact Survey in the United States, 2020-2021: Continuous real-time measurement of COVID-19 symptoms, risks, protective behaviors, testing and vaccination." PNAS, 2021, https://doi.org/10.1073/pnas.2111454118.

31. **Bilinski A**, Salomon JA, Giardina J, Ciaranello A, and Fitzpatrick MC. "Passing the Test: A model-based analysis of safe school-reopening strategies." Annals of Internal Medicine, 2021, https://doi.org/10.7326/M21-0600.

32. **Bilinski A**, Emanuel E, Salomon JA, and Venkataramani A. "Better Late than Never: Trends in COVID-19 infection rates, risk perceptions, and behavioral responses in the USA." Journal of General Internal Medicine, 2021, https://doi.org/10.1007/s11606-021-06633-8.

33. **Bilinski A**, and Emanuel E. "COVID-19 and Excess All-Cause Mortality in the US and 18 Comparison Countries." JAMA, 2020, https://doi.org/10.1001/jama.2020.20717.

34. **Bilinski A**, Mostashari F, and Salomon JA. "Modeling Contact Tracing Strategies for COVID-19 in the Context of Relaxed Physical Distancing Measures." JAMA Network Open, 2020, https:

//doi.org/10.1001/jamanetworkopen.2020.19217.

35. Khazanchi R, Beiter E, Gondi S, Beckman A, **Bilinski A**, and Ganguli I. "County-Level Association of Social Vulnerability with COVID-19 Cases and Deaths in the USA." Journal of General Internal Medicine, 2020, https://doi.org/10.1007/s11606-020-05882-3.

36. Kreuter F, Barkay N, **Bilinski A**, et. al. "Partnering with Facebook on a University-Based Rapid Turn-Around Global Survey." Survey Research Methods, 2020, https://doi.org/10.18148/srm/2020.v14i2.7761.

37. Cudahy P, Andrews J, **Bilinski A**, Dowdy D, Mathema B, Mezies N, Salomon JA, Shrestha S, and Cohen T. "Spatially Targeted Screening to Reduce Tuberculosis Transmission in High-Incidence Settings." Lancet Infectious Diseases, 2018, https://doi.org/10.1016/S1473-3099(18)30443-2.

38. Marx F, Yaesoubi R, Menzies N, Salomon JA, **Bilinski A**, Beyers N, Cohen T. "Tuberculosis Control Interventions Targeted to Previously Treated People in a High-Incidence Setting: A modelling study." Lancet Global Health, 2018, https://doi.org/10.1016/S2214-109X(18)30022-6.

39. Golden J, Mills K, **Bilinski A**, Beckman A, McDaniel K, Harding A, France A, Napa Tobar H, Vecitis C. "Bacterial Contamination of Reusable Bottled Drinking Water in Ecuador." Journal of Water, Sanitation and Hygiene for Development, 2017, https://doi.org/10.2166/washdev.2017.064.

40. **Bilinski A**, Birru E, Peckarsky M, Kachimanga C, Bronson G, McBain R, and Keck J. "Distance to Care, Enrollment and Retention of HIV Patients during Decentralization of Antiretroviral Therapy in Neno District, Malawi." PLoS One, 2017, https://doi.org/10.1371/journal.pone.0185699.

41. **Bilinski A**, Neumann P, Cohen J, Thorat T, McDaniel K, Salomon JA. "When Cost-Effective Interventions are Unaffordable: Integrating cost-effectiveness and budget impact in priority setting for global health programs." PLoS Medicine, 2017, https://doi.org/10.1371/journal.pmed.1002397.

42. Fitzpatrick MC, Shah H, Pandey A, **Bilinski A**, Kakkar M, Clark A, Townsend J, Abbas S, Galvani A. "One Health Approach to Cost-Effective Rabies Control in India." PNAS, 2016, https://doi.org/10.1073/pnas.1604975113.

43. **Bilinski A**, Fitzpatrick MC, Rupprecht C, Paltiel, A, and Galvani A. "Optimal Frequency of Rabies Vaccination Campaigns in Sub-Saharan Africa." Proceedings of the Royal Society B, 2016, https://doi.org/10.1098/rspb.2016.1211.

44. Beckman A, **Bilinski A**, Boyko R, Camp G, Wall AT, Lim J, Wang E, Bruce D, Gonsalves G. "New Hepatitis C Drugs are Very Costly and Unavailable to Many State Prisoners." Health Affairs, 2016, https://doi.org/10.1377/hlthaff.2016.0296.

45. Niccolai, L, Julian P, **Bilinski A**, Mehta N, Meek J, Zelterman D, Hadler J, Sosa L. "Geographic Poverty and Racial/Ethnic Disparities in Cervical Cancer Precursor Rates in Connecticut, 2008–2009." American Journal of Public Health, 2012, https://doi.org/10.2105/AJPH.2011.300447.

46. Mehta, N, Julian P, Meek J, Sosa L, **Bilinski A**, Hariri S, Markowitz L, Hadler J, Niccolai L. "Human Papillomavirus Vaccination History Among Women With Precancerous Cervical Lesions: Disparities and barriers." Obstetrics and Gynecology, 2012, https://doi.org/10.1097/AOG.0b013e3182460d9f.

Under Revision

1. †Feng S and **Bilinski A**. "Parallel Trends in an Unparalleled Pandemic: Difference-in-differences for infectious disease outcomes."

2. **Bilinski** A, Gariepy A, Slimovitch R, Sun M, Tobin-Tyler E, Paltiel D, and Gonsalves G. "How Big is the Grey Area? Understanding health-threatening complications in the context of state abortion bans."

3. **Bilinski, A**, Massa L, Ciaranello A, Fitzpatrick M, Giardina J. "What Goes In Must Come Out: Functional testing for complex simulation models."

4. **Bilinski A**, †Feng S, and Hatfield L. "Difference-in-Differences for Causal Effect Estimation."

5. **Bilinski A**, Ciaranello A, †Ramaswamy A, Webb K, and Imai-Eaton J. "Collateral Damages: The Impact of Non-HIV-related US Foreign Aid Cuts on Prevention of Vertical HIV Transmission Programs."

6. †Slimovitch R, Salomon JA, Bilinski A. "Trends in sexual activity, condom use, and use of pregnancy prevention methods among female adolescents, 2007-2023."

7. †Fortnam T, Chambers L, **Bilinski A**, Hogan J. "Dynamic Case-Control Sampling for Rapid Estimation of Vaccine Effectiveness Against an Emerging Infectious Disease Variant."

8. †Goldwasser J, Hu A, **Bilinski A**, McDonald D, Tibshirani R. "Retrospective Estimation of Time-Varying Epidemic Ratios: Some Pitfalls and New Ideas." Available at `https://www.medrxiv.org/content/10.1101/2024.12.27.24319518v1.full.pdf`.

Correspondence

1. **Bilinski A** and Ciaranello A. "Modeling Cost and Outcomes of SARS-CoV-2 School Testing Programs—Reply." JAMA Pediatrics, 2023, `https://10.1001/jamapediatrics.2022.2979`

2. **Bilinski A** and Hatfield L. "Potential Unintended Effects of Medicare's Bundled Payments for Care Improvement Program – Comment." JAMA, 2019, `https://doi.org/10.1001/jama.2018.18162`.

Other Writing

1. **Bilinski A**. "Our best evidence says acetaminophen is safe during pregnancy. Better evidence could lay the issue to rest." Stat, 2025, Available at `https://www.statnews.com/2025/09/23/acetaminophen-tylenol-use-pregnancy-randomized-controlled-trial/`.

2. **Bilinski A**. "Keeping pregnant participants out of medical research is more dangerous than including them." Stat, 2025, Available at `https://www.statnews.com/2025/08/12/pregnant-women-randomized-`

3. **Bilinski A**, Emanuel N, Ali O. "GPTs for Those Who Know and Love OLS." Available at `https://bit.ly/OLS_to_GPT`.

4. **Bilinski A**, Emanuel N, Ali O. "Making GPT your RA: A guide to using GPT to classify free text." Available at `https://www.bit.ly/GPT_as_RA`.

5. Hogan J, **Bilinski A**, Stuart E, and Salomon JA. "Surveillance, Screening, and Self-testing Can Help Us Manage COVID-19 in the Long Term." Boston Globe, 2022, `https://www.bostonglobe.com/2022/01/10/opinion/surveillance-screening-self-testing-can-hel`

6. **Bilinski A** and Salomon JA. "Data from Routine Covid Testing Can Help Schools Stay Open this Year." Stat News, 2021, `https://www.statnews.com/2021/09/21/covid-testing-data-help-schools-stay-open/`.

7. **Bilinski A** and Salomon JA. "Pandemic Models Can Be More Useful: Here's how." Health Affairs Forefront, 2021, `10.1377/forefront.20210831.560758`.

WORKING PAPERS

1. *Emanuel N, Lahey B, Perreira A, Ciaranello A, ***Bilinski A**. "The Pregnancy Paradox: Fewer conditions treated, but continued usage of medications without safety data during pregnancy."
2. †Babbs G, Ganguli I, **Bilinski A**. "Reproducibility in Biomedical Research: A Systems Prescription."
3. †Goldwasser J, Hu A, **Bilinski A**, McDonald D, Tibshirani R. "Estimating Time-Varying Epidemic Severity Rates with Adaptive Deconvolution." Available at `https://arxiv.org/abs/2510.16180`.
4. Norris A, Venkataramani A, Wang T, and **Bilinski A**. "Many State Medicaid Dental Plans Have Significant Coverage Gaps, Resulting in High Out-of-Pocket Costs for Beneficiaries."

GRANTS

2024 National Center for HIV, Viral Hepatitis, STD, and TB Prevention Epidemiologic and Economic Modeling Agreement 3.0 (CDC) (Co-investigator, $5m)

2024 National Institute of Environmental Health Sciences (NIH) P01 (Co-investigator, $4m)

2024 National Institute of Aging (NIH) P01 (Co-investigator, $14m)

2024 National Institute of General Medical Studies (NIH) R35 (Principal investigator, $1.9m)

2024 Brown University Annenberg Institute, (Co-principal investigator, $21k)

2023 National Center for HIV, Viral Hepatitis, STD, and TB Prevention Epidemiologic and Economic Modeling Agreement 2.0 (CDC) (Co-investigator, $5m)

2023 Council of State and Territorial Epidemiologists (CDC), (Co-investigator, $300k)

2023 Center for Forecasting and Outbreak Analytics (CDC) (Principal investigator, $250k)

2023 Council of State and Territorial Epidemiologists (CDC) (Co-investigator, $300k)

2022 Brown University Catalyst (Principal investigator, $47k)

2022 One Day Sooner (Principal investigator, $50,000)

2022 Council of State and Territorial Epidemiologists (CDC) (Co-investigator, $400k)

2020 Council of State and Territorial Epidemiologists (CDC) (Co-investigator, $467k)

2020 Facebook (Principal Investigator, $50k)

2020 GSAS Professional Development Award (Principal Investigator, $2k)

2017-19 National Institute of Allergy and Infectious Diseases (NIH) T32 Pre-Doctoral Fellowship

2015-17 Agency for Healthcare Research and Quality T32 Pre-Doctoral Fellowship

CONFERENCE AND SEMINAR PRESENTATIONS (SELECTED)

2026 "Test Driven Development: A Framework for Engaging with Large Language Models in Health Research." Keynote Speaker, AI and Research Methods Seminar, Indiana University.

2025 "DiD in 2025: Key Pitfalls and Recent Developments." Department of Health Policy, Vanderbilt University Medical Center.

2025 "DiD in 2025: Key Pitfalls and Recent Developments." 2025-2026 Health Policy and Insurance Research Seminar Series, Department of Population Medicine, Harvard Medical School.

2025 "Test Driven Development: A Framework for Engaging with Large Language Models in Health Research." Departments of Economics and Health Economics, York University, United Kingdom.

2025 "Test Driven Development: A Framework for Engaging with Large Language Models in Health Research." ASHEcon.

2025 "Observational Causal Inference with Infectious Disease Outcomes." International Conference on Statistics and Data Science, Vancouver, Canada (Presenter: Feng).

2025 "Observational Causal Inference with Infectious Disease Outcomes." Society for Causal Inference.

2025 "Test Driven Development: A Framework for Engaging with Large Language Models in Health Research." Roger Williams University.

2025 "Napkin Math for Physicians." Brigham and Women's Hospital, Internal Medicine Residents.

2025 "How to design and run scientific studies using AI agents as research assistants." ESCMID Global, Vienna, Austria.

2025 "Test Driven Development: A Framework for Engaging with Large Language Models in Health Research." Institute for Disease Modeling, Gates Foundation.

2025 "Test Driven Development: A Framework for Engaging with Large Language Models in Health Research." 2025 Western PharmacoEconomics Conference, University of Washington.

2025 "Thinking about the Value of Information in Pregnancy." Harvard Center for Health Decision Science.

2025 Stanford University School of Medicine Methods Mini-Meeting.

2025 "Observational Causal Inference with Infectious Disease Outcomes." Stata Institute.

2025 "How GPTs Work and Why They Work Well." Brown University Love Data Week.

2025 "Observational Causal Inference with Infectious Disease Outcomes." University of California, Berkeley, Methodology Seminar.

2025 "GPTs for Those Who Know and Love OLS: How they work and some ideas for research." Center for Communicable Disease Dynamics, Harvard TH Chan School of Public Health Department of Epidemiology.

2024 "Functional testing for model development." Guest lecture, Harvard TH Chan School of Public Health.

2024 "Harnessing AI for smarter health policy research." Brown University podcast: `https://sph.brown.edu/news/2024-12-10/hiph-using-ai-health-research`.

2024 "From Napkin Math to Test-Driven Development." Keynote, High-Performance Computing Center Stuttgart.

2024 "Sunny with a Chance of Hurricane: Decision Analytic Metrics for Forecast Evaluation." Council of State and Territorial Epidemiologists.

2024 "Living in a Parallel World: Observational Causal Inference with Infectious Disease Outcomes." Erasmus University, Decision Science Methods Seminar.

2024 "How (Much) Can We Trust GPTs in Health Research? A statistical approach." Boston University Biostatistics Department Seminar.

2024 "Observational Causal inference with Infectious Disease Outcomes." Basis Institute, Broad Institute, MIT.

2024 "Discussion – "Anticipation Effects in Difference-in-Differences Models." American Health Econometrics Workshop.

2024 "GPT as RA: A guide to using GPT to classify free text." Brown University Data Science Institute.

2024 "Napkin Math for State and Local Public Health Departments: Useful answers from simple models." CDC Career Epidemiology Field Officers.

2024 "Napkin Math for State and Local Public Health Departments: Useful answers from simple models." Council of State and Territorial Epidemiologists.

2024 "Sins of Omission: A research agenda for inclusion of pregnant people in clinical trials." J-PAL.

2024 "Starting the Conversation on Models." Casual Inference podcast: `https://casualinfer.libsyn.com/starting-the-conversation-on-models-with-alyssa-bilinski-season-5-episode-11`.

2024 "Napkin Math for State and Local Public Health Departments: Useful answers from simple models." Imperial College London.

2024 "Sins of Omission: The costs of avoiding clinical trials during pregnancy." ASHEcon (Presenter: N. Emanuel).

2024 "Wrong but Useful? Lessons from Pandemic Modeling." Guest Lecture for *COVID-19: Past, Present, and Future*, Stanford University School of Medicine.

2024 "Don't Feed the Bugs: Reproducibility for health policy research." Center for Advancing Health Policy Through Research, Brown School of Public Health.

2024 "Observational causal inference with infectious disease outcomes." Center for Communicable Disease Dynamics, Harvard TH Chan School of Public Health Department of Epidemiology.

2024 "Sins of Omission: The costs of avoiding clinical trials during pregnancy." ASSA Annual Meeting (Presenter: N. Emanuel).

2023 "Napkin Math: Developing model intuition in the digital age." CISNET.

2023 "Napkin Math: Developing model intuition in the digital age." Society for Medical Decision-making In-Person Short Course.

2023 "Finding What Works: Policy evaluation methods for communicable disease interventions." New York City Department of Health and Mental Hygiene.

2023 "Sins of Omission: Quantifying the health costs of excluding pregnant people from clinical trials." ASHEcon.

2023 "Parallel Trends in an Unparalleled Pandemic: Difference-in-differences for infectious disease policy evaluation." California Center for Population Research.

2023 "Napkin Math: Developing model intuition in the digital age." Society for Medical Decision-making Virtual Short Course.

2023 "Adaptive metrics for an evolving pandemic: A dynamic approach to area-level COVID-19 risk designations." University of Colorado Biostatistics and Informatics Seminar.

2023 "Adaptive metrics for an evolving pandemic: A dynamic approach to area-level COVID-19 risk designations." International Conference for Health Policy Statistics.

2022 "Using Modeling to Make Decisions." K-12 COVID-19 Response Symposium, University of Illinois–Urbana Champaign.

2022 "Sins of Omission: Quantifying the Health Costs of Excluding Pregnant People from Clinical Trials." Society for Medical Decision Making 43nd Annual Meeting, Oral Presentation (N. Emanuel).

2022 "Is the Time Now? A novel approach to early detection of COVID-19 surges." Public Health Modeling Unit Seminar, Yale School of Public Health.

2021 "When Models are Wrong and Harmful: Unpacking forecast failures of the COVID-19 Pandemic." UT COVID-19 Modeling Consortium.

2021 "SARS-CoV-2 Testing Strategies to Contain School-Associated Transmission." Society for Medical Decision Making 42nd Annual Meeting, Oral Presentation.

2021 "SARS-CoV-2 Testing Strategies to Contain School-Associated Transmission." University of California/California Department of Public Health Modeling Consortium.

2021 "Impact of the Delta Variant on Children." Expert Panelist, CanCOVID-PHAC SITE Exchange.

2021 "Lessons from Pandemic School Modeling." Biostatistics Department Seminar, Brown University School of Public Health.

2021 "Goldilocks and the Pre-Intervention Time Series: How long is just right?" McGill Epidemiology Seminar, McGill Dept of Epidemiology, Biostatistics, and Occupational Health.

2020 "Strategies for Preventing SARS-CoV-2 Transmission in Schools: A model-based analysis of safe reopening strategies." American Academy of Pediatrics, Public Health Agency of Canada, various state departments of public health.

2020 "COVID-19 Statistics, Policy modeling & Epidemiology Collective." COVID-19 Rapid Response Economics Webinar, Association of Environmental and Resource Economists.

2020 "Goldilocks and the Pre-Intervention Time Series: How long is just right?" Applied Quantitative Methods Seminar, Boston University School of Public Health.

2019 "Nothing to See Here? A non-inferiority approach to parallel trends." Population Health Science Workshop sponsored by UPenn Health Economics (CHIBE/LDI). Selected for 1/9 presentations out of 100 submissions.

2019 "When Cost-Effective Interventions are Unaffordable: understanding why and moving forward." Hepatitis C Medicaid Affinity Group.

2018 "When Cost-Effective Interventions are Unaffordable: understanding why and moving forward." VA Health Economics Research Cyberseminar.

2018 "Proper use of P-values and Other Alternatives." Panelist at Western North American Region of the International Biometric Society Meeting.

2016 "The Hepatitis C Crisis in American Prisons." Panel discussion at Harvard Law School with Robert Greenwald and Joel Thompson.

TEACHING AND MENTORING

Napkin Math: Model Intuition for the Digital Age 8 sessions, ¿300 students
Instructor

PHP2455A: Health Services Research Methods I Fall 2022-2025
Instructor

Math 116/E-216: Real Analysis, Convexity, and Optimization Spring 2018
Teaching Fellow, Professor Paul Bamberg

RDS 280: Decision Analysis in Clinical Research Summer 2016
Teaching Fellow, Professor Uwe Siebert

Tutoring

STAT 110: Introduction to Probability — Fall 2016-18
STAT 111: Introduction to Theoretical Statistics — Spring 2017, 2019

Students Mentored

Shuo Feng (Brown University biostatistics PhD student, dissertation committee chair): *"Strengthening Observational Causal Inference Methods for Infectious Disease Outcomes"*
Taylor Fortnam (Brown University biostatistics PhD student, dissertation committee member): *"Using Real-World Data to Answer Real-World Questions: Statistical methods for pandemic response data"*
Susan Hayes (Brown University health services research PhD student, dissertation committee member): *The Newest 'Burdensome Transition'? Moving from Medicaid expansion coverage to Medicare at 65*
Amrutha Ramaswamy (Brown University health services research PhD student, advisor)
Gray Babbs (Brown University health services research PhD student, project supervisor)
Shriya Jamakandi (Brown University health services research PhD student, independent study advisor)
Jina Yang (Brown University biostatistics PhD student, independent study advisor)
Rachel Slimovitch (Brown University epidemiology MPH student, thesis adviser)
Jialin Liu (Brown University biostatistics MS student, thesis adviser)
Sydney LeSon (Brown University epidemiology MPH student, thesis reader)
Kerry Ye (Brown University biostatistics MS student, thesis reader)
Peirong Hao (Brown University biostatistics MS student, thesis reader)
Melissa Sierra (Brown University MPH student, thesis reader)
Kaizhong Mu (Brown University biostatistics MS student, summer project)
Liuhan Ke (Brown University biostatistics MS student, semester project)
Rohan Panjwani (Brown University undergraduate student, semester project)
Julia Lynn (Brown University data science student, summer project)
Wanyi Chen (Brown University biostatistics MS student, summer project) hfill
Soryan Kumar (Brown University medical student)
Mihir Khunte (Brown University medical student)
Shirley Dong (Brown University undergraduate, applied math)
Jack Lardner (Brown University undergraduate, computer science)
Ruth Moreira Ulloa (Brown University undergraduate, public health & computer science)
Kathryn Thompson (Brown University health policy PhD student)
Alexandra Norris (Harvard University undergraduate)
Evan MacKay (Harvard University undergraduate)
Arianna Pereira (High school student)

HONORS AND AWARDS

2024 Brown University Richard B. Salomon Faculty Research Award

2020 Academy Health Best Poster in Methods Research Theme

2020 American Statistical Association Student Paper Award (Health Policy Statistics Section)

2018 Society for Medical Decision-Making Lusted Lee Student Prize Finalist (Quantitative Methods)

2017 High Pass – General Qualifying Exam in Health Policy

2015 London School of Hygiene and Tropical Medicine Trust Fund Award

2014 Marshall Scholarship

2014 Rhodes Scholarship Finalist

2013 Yale Calhoun (Hopper) College Fellow's Cup

2009 United States Presidential Scholar

SERVICE

Referee

JAMA, *JAMA IM*, *Annals of Internal Medicine*, *Review of Economics and Statistics*, *Journal of the Royal Statistical Society - A*, *Proceedings of the National Academy of Sciences*, *Health Affairs*, *Science Advances*, *Annals of Applied Statistics*, *Biometrics*, *Epidemiology*, *PLoS Computational Biology*, *Statistics and Public Policy*, *Journal of Policy Analysis and Management*, *American Journal of Public Health*, *American Journal of Managed Care*, *BMJ Public Health*, *Statistics and Public Policy*, *JAMA Network Open*, *JAMA Health Forum*, *Value in Health*, *Vaccine*, *Journal of Applied Econometrics*, *Epidemics*, *Medical Decision-Making*, *Health Services and Outcomes Research Methodology*, *SoftwareX*, *Healthcare: The Journal of Delivery Science and Innovation*, *PLoS One*, *Wellcome Open Research*, *Health Services and Outcomes Research Methodology*, National Science Foundation, Association for Public Policy Analysis and Management Fall Research Conference, International Conference on Health Policy Statistics Student Committee, Swiss National Foundation

National Committees

2023-24 Member, National Academy of Science, Engineering, and Medicine Committee on the Assessment of NIH Research on Women's Health

Brown University

2025- Coordinator, Statistical Methods in Infectious Disease Policy Workshop
2024- Co-Director, Graduate Admissions
2024- Catalyst Grant Reviewer
2023- Member, Graduate Admissions Committee
2023- Member, Curriculum Committee
2023-24 Member, Health Data Science Search Committee
2023 PhD Curriculum Revision
2022-23 Member, Health Data Science Search Committees
2022-23 Judge, Public Health Research Day
2022 HSR PhD Journal Club Adviser
2022 Presidential Scholars Summer Program Curriculum Development

OTHER EXPERIENCE

Biden Transition Team Dec 2020-Jan. 2021
Member

- Provided modeling and data analytic support

Partners In Health July 2012-Aug. 2014
Data Analyst

- Worked with 5 sites in Africa and Latin America
- Programmed 21 interactive databases, automated reports & trained users in both French & Spanish
- Led 11 group trainings of 5-20 people in both English and French on Excel, R and Access; provided long-term mentorship & technical support to 3 staff members
- Analyzed HIV medical records and prepared abstracts and manuscripts on retention and adherence

OTHER

GitHub `https://github.com/abilinski`
Languages English (native), Spanish (proficient), French (basic)