

# ALYSSA BILINSKI

Department of Health Services, Policy, and Practice ◊ Brown University School of Public Health  
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## APPOINTMENTS

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### Brown University School of Public Health

Peterson Family Assistant Professor of Health Policy

July 2021-

## EDUCATION

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### Harvard University

PhD in Health Policy (Evaluative Science and Statistics)

AM in Statistics

Aug. 2015 - May 2021

### London School of Hygiene and Tropical Medicine

MS in Medical Statistics

Sept. 2014 - Nov. 2015

*With Distinction*

### Yale University

BA in Political Science (Health Policy Concentration)

Distinction in Major & Phi Beta Kappa

Aug. 2009 - May 2013

*Summa Cum Laude*

## GRANTS

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2020 Council of State and Territorial Epidemiologists (CDC) (Co-investigator, \$467,217)

2020 Facebook (Unrestricted gift, \$50,000)

2020 GSAS Professional Development Award (\$2011)

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

## PUBLICATIONS

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### Peer-reviewed papers

16. **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>.
15. **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>.
14. **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>.
13. **Bilinski A**, Mostashari F, and Salomon JA. "Contact Tracing Strategies for COVID-19 Containment with Attenuated Physical Distancing." *JAMA Network Open*, 2020, <https://doi.org/10.1001/jamanetworkopen.2020.19217>.
12. 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>.

11. 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>.
10. 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](https://doi.org/10.1016/S1473-3099(18)30443-2).
9. 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](https://doi.org/10.1016/S2214-109X(18)30022-6).
8. 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>.
7. **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>.
6. **Bilinski A**, Neumann P, Cohen J, Thorat T, McDaniel K, Salomon JA. “Integrating Cost Effectiveness and Affordability in the Design of Universal Health Coverage.” *PLoS Medicine*, 2017, <https://doi.org/10.1371/journal.pmed.1002397>.
5. 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>.
4. **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>.
3. 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>.
2. 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>.
1. 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>.

## Correspondence

1. **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>.

## WORKING PAPERS

1. **Bilinski A** and Hatfield L. “Goldilocks and the Pre-Intervention Time Series: How long is just right?”

2. **Bilinski A** and Hatfield L. “No Free Lunch: A non-inferiority approach to model assumption tests.”
3. **Bilinski A** and Hatfield L. “Two Roads Diverged in my DID, and I Took the One with the Smaller Pre-Trend: Model selection for difference-in-differences.”
4. **Bilinski A**, Ciaranello A, and Fitzpatrick MC, Giardina J, Shah M, Salomon JA, and Kendall E. “Asymptomatic COVID-19 Screening Tests to Facilitate Full-Time School Attendance: Model-based analysis of impact and cost.” Available at <https://www.medrxiv.org/content/10.1101/2021.05.12.21257131v1>.
5. **Bilinski A**, Menzies N, and Salomon JA. “Metamodelling, Sensitivity Analysis, and Causal Reasoning for Complex Simulation Models: An HIV case study.”
6. **Bilinski A**, Glickman A, and Emanuel E. “COVID-19 and Excess Cause-Specific Mortality: Evidence from Connecticut and Michigan.”
7. **Bilinski A**, Mackay E, Salomon JA, and Pandya A. “Affordability and Value in Decision Rules for Cost-Effectiveness: A survey of health economists.”
8. 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.”
9. 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.” Available at <https://www.medrxiv.org/content/10.1101/2021.01.21.21250243v3.full>.
10. **Bilinski A** as part of COVID-19 Statistics, Policy modeling, and Epidemiology Collective. “Defining High-Value Information for COVID-19 Decision-Making.” Available at <https://www.medrxiv.org/content/10.1101/2020.04.06.20052506v1>.
11. Sheffield S, York A, Swartwood N, **Bilinski A**, Williamson A, and Fitzpatrick MC. “Strict Intermittent Social Distancing May Be More Efficient: A mathematical argument for intermittent re-sets.” Available at <https://www.medrxiv.org/content/10.1101/2020.05.19.20107045v2.full.pdf>.

## INVITED TALKS (SELECTED)

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- 2020 “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

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**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 Supervised

Alexandra Norris (undergraduate summer project) 2021

Evan MacKay (undergraduate project) 2018

## HONORS AND AWARDS

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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 General Qualifying Exam in Health Policy High Pass

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

## REFEREE SERVICE

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*JAMA, Annals of Internal Medicine, Journal of Policy Analysis and Management, American Journal of  
Managed Care, Proceedings of the National Academy of Sciences, JAMA Network Open, Value in Health,  
Healthcare: The Journal of Delivery Science and Innovation, PLoS One, Wellcome Open Research*

## WORK EXPERIENCE

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**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 mentorship & technical support to 3 staff members

- Analyzed HIV medical records and prepared abstracts and manuscripts on retention and adherence

## **OTHER SKILLS AND INTERESTS**

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<b>Computer</b>	R, Python, Stata, ArcGIS, Access
<b>Languages</b>	English (native), Spanish (proficient), French (basic)