

## CURRICULUM VITAE

Elizabeth A. Stuart, Ph.D.

### PROFESSIONAL DATA

Department of Mental Health  
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### EDUCATION AND TRAINING

- 2004 PhD Statistics, Harvard University  
Advisor: Professor Donald B. Rubin  
Thesis "Matching methods for estimating causal effects using multiple control groups"
- 2001 AM Statistics, Harvard University
- 1997 AB Mathematics (major) and Chemistry (minor), Smith College
- 1995-1996 Visiting Student in Mathematics and Computation, Oxford University

### PROFESSIONAL EXPERIENCE

- 2023 - Frank Hurley and Catherine Dorrier Professor and Chair  
Department of Biostatistics  
Department of Mental Health (joint)  
Department of Health Policy and Management (joint)  
Johns Hopkins Bloomberg School of Public Health  
Johns Hopkins University School of Education (courtesy joint)
- 2020- Bloomberg Professor of American Health
- 2022-2023 Executive Vice Dean for Academic Affairs
- 2021 Vice Dean for Education
- 2017- Core Faculty, Bloomberg American Health Initiative
- 2016-2021 Associate Dean for Education
- 2015- Professor
- 2010-2022 Co-Director, BSPH Center for Mental Health and Addiction Policy
- 2010-2020 Associate Director for Statistical Methods, BSPH Wendy Klag Center for Autism & Developmental Disabilities
- 2011-2015 Associate Professor  
Johns Hopkins Bloomberg School of Public Health
- 2006-2011 Assistant Professor  
Johns Hopkins Bloomberg School of Public Health
- 2004-2006 Researcher  
Mathematica Policy Research, Inc.

2006            Adjunct Faculty  
                   Joint Program in Survey Methodology, University of Maryland  
                   and University of Michigan

2004.           Contractor  
                   U.S. Bureau of the Census

1999-2004      Research Assistant for Professor Gary King  
                   Department of Government, Harvard University

1999-2004      Teaching and Research Assistant  
                   Department of Statistics, Harvard University

1999.           Research Assistant/Programmer  
                   Mathematica Policy Research, Inc.

1997.           Research Assistant  
                   Department of Mathematics, Smith College

## **PROFESSIONAL ACTIVITIES**

### *Society Membership and Leadership*

Eastern North American Region, International Biometric Society  
     Award Committee Member, Elizabeth L. Scott award, 2023 -  
 American Association for the Advancement of Science (AAAS) Section U Electorate Nominating  
     Committee, 2020-  
 Association for Schools and Programs of Public Health  
     Education Advisory Committee, 2019-  
     Data Section Institutional Representative, 2019 - 2021  
     Task Force on Scholarship of Teaching and Learning, 2018 - 2021  
 American Statistical Association, 2001-present  
     Excellence in Statistical Reporting Award Committee, 2021-2023  
     Founding Member, Mental Health Statistics Section  
         Co-Director, Charter Workgroup, 2011  
         Member, Liaison Committee, 2012 - 2016  
         Council of Sections Representative, 2012 – 2015  
         Chair Elect, 2016  
         Chair, 2017  
         Past Chair, 2018  
 Social Statistics Section  
     Program Chair, 2012  
 Health Policy Statistics Section  
     Awards Committee, 2017  
 Waksberg Award selection committee, 2016-2018  
 Council of Sections Nominating Committee, 2013  
 Committee on Women in Statistics, 2007 - 2012  
 ASA Gertrude Cox Scholarship Committee, 2006-2008  
 Member, Focus Group on AAAS Human Rights Coalition and International Right to  
     Enjoy the Benefits of Scientific Progress and its Applications, 2011  
 Judge, Washington Statistical Society Curtis Jacobs Award, 2005

American Educational Research Association  
 Palmer O. Johnson Award Committee, 2019-2021  
 International Conference on Health Policy Statistics  
 Chair, Outreach Committee, 2017  
 Organizing Committee, 2011, 2013, 2015, 2017  
 Third Annual Thomas R. Ten Have Symposium on Statistics in Mental Health  
 Organizing Committee, 2013  
 Society for Epidemiologic Research  
 Member, Education Committee, 2018-2020  
 Society for Prevention Research  
 Member, Innovative Methods Theme Committee, 2009-2011  
 Annual Meeting Program Committee, 2009  
 Society for Research on Educational Effectiveness, 2011 – present  
 President, 2022  
 Board member, 2017 -  
 Association for Public Policy Analysis and Management, 2004-2008  
 Methods Program Committee, Fall Research Meeting, 2012, 2013  
 International Biometric Society Eastern North American Region  
 Spring Meeting Program Committee, 2010  
 American PsychoPathological Association, 2009-2010  
 Organizer, Atlantic Causal Inference Conference, 2008, 2012  
 American Public Health Association, 2007-2009  
 Institute of Mathematical Statistics, 2001-2008

*Participation on Advisory Panels and Boards*

2023-	Member, AWS Impact Computing Project Advisory Board, Harvard Data Science Initiative
2023-	co-Chair, Committee on Applied and Theoretical Statistics (CATS), National Academies of Sciences, Engineering, and Medicine
2022-	Advisory Board, Blueprints for Healthy Youth Development
2022-	Core Member, TARGET - TrAnsparent ReportinG of studies Emulating a Target trial work group
2022-	Member, Informed Population Health Opinions (INPHO) survey, Stanford University
2021-2023	Committee on the Implications of Using Multiple Data Sources for Major Survey Programs, National Academies of Sciences Engineering and Medicine
2021-	External Advisory Board, Center for Perioperative Mental Health (NIMH-funded ALACRITY Center), Washington University
2021-2022	co-Chair, National Academies of Sciences Engineering and Medicine Panel on Assessing Causality from a Multidisciplinary Evidence Base for National Ambient Air Quality Standards
2020-	Committee on National Statistics (CNSTAT), National Academies of Sciences, Engineering, and Medicine
2020-2023	Committee on Applied and Theoretical Statistics (CATS), National Academies of Sciences, Engineering, and Medicine
2019	Homeless Veterans Reintegration Program Evaluation Technical Working Group U.S. Department of Labor/Mathematica
2019	Panel to assess the long-term impacts of antimalarials, National Academies of Sciences, Engineering, and Medicine

2019	National Cancer Institute (NCI) Provocative Questions Workshop Member
2018	Friends of Cancer Research Historical Control Task Force
2018	Pew Charitable Trusts, Coordinating Center for the Community Opioid Response & Evaluation Project (CORE), National Advisory Committee.
2018	Promise Neighborhoods Evaluation Technical Working Group, US Department of Education/Mathematica Policy Research
2017 - 2018	Applied Research Advisory Group GovEx
2016 -	What Works Clearinghouse panel on missing data US Department of Education, Institute of Education Sciences
2016 -	Member, Improvement Analytics Unit Technical Advisory Group The Health Foundation and NHS England
2016	Committee of Visitors, Division of Social and Economic Sciences National Science Foundation
2014-2018	Chair, Inaugural PCORI Clinical Trials Advisory Panel
2014	National Academy of Sciences Planning Meeting on the Design and Analysis of Observational Studies to Enhance Their Use in Providing Causal Inference (for the National Institute of Aging)
2014	Member, What Works Clearinghouse Findings Development Team U.S. Department of Education/Mathematica Policy Research, Inc.
2014-2015	Panel on Research Methodologies and Statistical Approaches to Understanding Driver Fatigue Factors in Motor Carrier, Safety and Driver Health (Committee Code: ZZ134455), National Academy of Sciences
2012	GEAR Up Evaluation Technical Working Group U.S. Department of Education/Abt Associates
2012	Advisory Committee on Advancing Adult Education Research U.S. Department of Education, Institute of Education Sciences
2012	Committee to advise The Legacy Foundation Schroeder Institute for Tobacco Research and Policy Studies on issue of equipoise
2011-2015	Evaluation of Race To The Top and School Improvement Grants Technical Working Group U.S. Department of Education/Mathematica Policy Research, Inc.
2010-2013	Evaluation of Teacher Residency Programs Technical Working Group U.S. Department of Education/Mathematica Policy Research, Inc.
2010	National Evaluation of the Individuals with Disabilities Education Act (IDEA) Technical Assistance and Dissemination Program (TA&D Program) Technical Working Group U.S. Department of Education/Westat
2009-2012	ITEST Advisory Board U.S. Department of Education/University of South Florida
2008	Strengthening Adult Reading Instructional Practices Advisory Board U.S. Department of Education/Abt Associates
2007	National Head Start Impact Study Advisory Board U.S. Department of Health and Human Services

#### *Consultations*

2018-	University of Rochester, Crisis Text Line evaluation (Dr. Anthony Pisani)
2016-	National Cancer Institute
2014-	Georgetown University (Center for Research on Children in the United States)

2014-2016	Arizona State University (Prevention Research Center; Dr. Irwin Sandler)
2013-	Brigham and Women's Hospital (Department of Pharmacoepidemiology)
2013	SRI International
2012-2013	National Opinion Research Center (NORC)
2010-2013	Abt Associates
2009-2011	Washington University
2008-2010	American Institutes for Research
2008	The Urban Institute
2006-2012	University of Pennsylvania School of Medicine
2006	Mathematica Policy Research, Inc.
2004-2006	RAND Corporation
2002-2005	Genzyme Corporation
2000-2004	Active Girls Initiative

#### *Faculty Affiliations*

Advisory Board, The Good Science Project-JHU MA in Science Writing Fellowship (2023-)  
 Hopkins Business of Health Initiative (Core Faculty, 2022 - )  
 Johns Hopkins Center for Gun Violence Solutions (Core Faculty, 2021 - )  
 Bloomberg American Health Initiative (Evidence workgroup lead, 2016-)  
 Hopkins Population Center (Faculty Associate and Coordinating Committee, 2015- )  
 BSPH Center for Mental Health and Addiction Policy (co-Director, 2014- )  
 Johns Hopkins Center for Gun Policy and Research (Affiliate, 2019 - 2021 )  
 Lerner Center for Public Health Promotion (Special Advisor, 2018 - 2020)  
 Mannheim Center for European Social Research, University of Mannheim (External Fellow, 2014-)  
 BSPH Wendy Klag Center for Autism & Developmental Disabilities (Associate Director; 2013-)  
 BSPH Center for Prevention and Early Intervention (Methods Core Co-Director, 2006 - 2014)  
 JHU Institute for Data Intensive Engineering and Science (IDIES; Affiliate Member, 2013 - )  
 BSPH Center for Drug Safety and Effectiveness (Core Faculty; 2012 - )  
 BSPH Center for the Prevention of Youth Violence (2006 - 2019)  
 BSPH Psychiatric Epidemiology Training Program (Core Faculty; 2012 - )  
 BSPH Drug Dependence Epidemiology Training Program (Core Faculty; 2012 - 2017)  
 Summer Research Institute on Geriatric Mental Health Affiliated Faculty (2013)  
 Johns Hopkins University Training Program in Education Research (2009-2012)  
 BSPH ACTIVE Evaluation, Fidelity Assessment Advisory Board (2010-2012)  
 Faculty Visitor, BEAR Program, Graduate School of Education, University of California at Berkeley (2008)  
 Faculty Visitor, Institute for Employment Research, Nuremberg, Germany (2011)  
 Steering Committee, Prevention Science & Methodology Group (PSMG; 2012 - 2016)

#### *Data Safety Monitoring Boards (DSMB)*

National Institute of Drug Abuse HEAL Prevention DSMB (2020-)  
 Drexel University, Connecting the Dots Study (Promoting Positive Outcomes for Individuals with ASD: Linking Early Detection, Treatment, and Long-term Outcomes) (PI: Robins, 2018)  
 Columbia University Center for Homelessness Prevention Studies (PI: Caton; 2011)  
 The Impact of Neighborhoods, Networks and Depression on Drug Users' HIV Risks (PI: Latkin; 2009-2011)

#### **EDITORIAL AND OTHER PEER REVIEW ACTIVITIES**

### *Editorial Boards*

2009 - 2012	Associate Editor, <i>Journal of the Royal Statistical Society, Series A</i>
2011 – 2016	Associate Editor, <i>The Journal of Causal Inference</i>
2012 - 2020	Associate Editor, <i>Sociological Methods and Research</i>
2012 - 2016	Associate Editor, <i>Statistics in Medicine</i>
2013 - 2014	Associate Editor, <i>Journal of Educational and Behavioral Statistics</i>
2014 - 2019	Management Committee, <i>Journal of Educational and Behavioral Statistics</i>
2013 - 2015	Associate Editor, <i>Journal of Research on Educational Effectiveness</i>
2014 - 2016	Associate Editor, <i>Journal of the American Statistical Association, Reviews</i>
2014 -	Associate Editor, <i>Observational Studies</i>
2015 - 2019	Associate Editor, <i>Psychometrika</i>
2015 - 2019	Methods Editor, <i>Journal of Research on Educational Effectiveness</i>
2018 - 2021	Associate Editor, <i>Journal of the American Statistical Association Theory &amp; Methods</i>
2018 - 2023	Statistical Reviewer, <i>JAMA Psychiatry</i>
2018 - 2021	Associate Editor, <i>American Journal of Political Science</i>
2021 - 2023	Statistical Reviewer, <i>NEJM Evidence</i>
2022 -	Associate Editor, <i>Harvard Data Science Review</i>
2023 -	Statistical Editor, <i>JAMA Health Forum</i>

### *Journal Peer Review Activities*

Academy Health  
Administration and Policy in Mental Health  
American Journal of Epidemiology (Outstanding reviewer award, 2018)  
American Journal of Evaluation  
American Journal of Geriatric Psychiatry  
American Journal of Public Health  
The American Statistician  
Annals of Applied Statistics  
Annals of Epidemiology  
Bayesian Analysis  
Biometrics  
Biostatistics  
British Medical Journal (BMJ)  
Children and Youth Services Review  
Circulation  
Clinical Trials  
Communications in Statistics  
Comparative Effectiveness Research  
Computational Statistics and Data Analysis  
Criminology  
Developmental Psychology  
Educational Psychology Review  
Epidemiology  
Epidemiology and Psychiatric Sciences  
European Journal of Agricultural Economics  
Health Economics  
Health Services & Outcomes Research Methodology  
Health Services Research

International Journal of Biostatistics  
 International Journal of Eating Disorders  
 International Statistical Review  
 Journal of Adolescent Health  
 Journal of the American Medical Association  
 Journal of the American Statistical Association  
 Journal of Behavioral Health Services & Research  
 Journal of Clinical Epidemiology  
 Journal of Clinical Psychiatry  
 Journal of Consulting and Clinical Psychology  
 Journal of Educational and Behavioral Statistics (Outstanding reviewer award, 2011)  
 Journal of Health Communication  
 Journal of Official Statistics  
 Journal of Politics  
 Methodology  
 Multivariate Behavioral Research  
 PeerJ  
 Pharmacoepidemiology and drug safety (Outstanding reviewer award, 2012)  
 Prevention Science  
 Psychiatric Services  
 Psychological Methods  
 Psychology of Addictive Behavior  
 Review of General Psychology  
 Science  
 Sociological Methods & Research  
 Statistical Methods in Medical Research  
 Statistica Sinica  
 Statistical Science  
 Statistics in Medicine  
 Survey Methodology

#### *Proposal Reviews*

- 2017 – 2020 Chair, National Institute of Mental Health Services Research Committee (**SERV**)
- 2015-2017 Standing Member, National Institute of Mental Health Services Research Committee (**SERV**)
- 2014 National Institute of Mental Health, Clinical Trials to Test the Effectiveness of Treatment, Prevention, and Services Interventions R01 and R01 Collaborative (Clinical Trials R01) Applications (**ZMH1 ERB-K (01)**)
- 2014 National Institute of Mental Health, Services Conflicts (**ZMH1 ERB-K (06)**)
- 2014 National Institute of Mental Health, Improving Health and Reducing Premature Mortality in People with Severe Mental Illness (**ZMH1 ERB-1 03 R**)
- 2014-2016 Principal member, Institute of Education Sciences, U.S. Department of Education, Education Systems and Broad Reform Review Panel
- 2013 National Institute of Mental Health, Fellowships and Dissertations Review Panel (**ZMH1 ERB-K 01 L**; ad hoc)
- 2013 Institute of Education Sciences, U.S. Department of Education, Accelerating the Academic Achievement of Students with Learning Disabilities Research Initiative Review Panel (ad hoc)

- 2012 National Institute of Mental Health, Grand Challenges in Global Mental Health, Special Emphasis Panel (**ZMH1 ERB-B**)
- 2011-2013 Principal member, Institute of Education Sciences, U.S. Department of Education Statistics and Modeling Panel
- 2011-2012 Institute of Education Sciences, U.S. Department of Education, Math and Science I Review Panel (ad hoc)
- 2010 National Institute of Mental Health, Interventions Committee For Disorders Involving Children And Their Families (**ITVC**; ad hoc)
- 2010 Institute of Education Sciences, U.S. Department of Education, Early Intervention and Early Childhood Education Panel (ad hoc)
- 2010 Institute of Education Sciences, U.S. Department of Education, Education Systems and Broad Reform Panel (ad hoc)
- 2009 Institute of Education Sciences, U.S. Department of Education, Reading, Writing, and Language Development Panel (ad hoc)

*Book reviewer*

Oxford University Press  
Sage Publications  
Springer Verlag

*Ad-hoc review of grant proposals*

National Science Foundation  
Netherlands Organisation for Health Research and Development

## **HONORS AND AWARDS**

*Honors*

- 2020 Fellow, American Association for the Advancement of Science (AAAS)
- 2016 Delta Omega Honor Society in Public Health, Alpha Chapter
- 2014 Fellow, American Statistical Association
- 2009 Paper recognized as “New Hot Paper” by Thomson Reuters
- 2008 Warren Miller Prize for best paper published in Volume 15 of *Political Analysis*.
- 1997 AB Magna cum laude, Smith College
- 1997 Phi Beta Kappa

*Awards*

- 2021-2022 Highly Cited Researcher (top 1% of citations), Clarivate
- 2020 Marshall Joffe Methods Award, Society for Epidemiologic Research
- 2019 Highly Cited Researcher (top 1% by citations), Web of Science
- 2017 American Statistical Association, Gertrude Cox Award, Washington Statistical Society/RTI
- 2015 American Statistical Association Health Policy Statistics Section Mid-Career Award
- 2015 BSPH AMTRA Advising, Mentoring, and Teaching Recognition Award
- 2010 BSPH Golden Apple award for Excellence in Teaching
- 2010 BSPH AMTRA Advising, Mentoring, and Teaching Recognition Award
- 2010-2022 BSPH Recognition for Excellence in Teaching (based on course reviews; for 2 courses: 140.664, 330.805, nearly every time the courses offered)



2007	Johns Hopkins Bloomberg School of Public Health Edward R. Brewster Faculty Innovation Fund Awardee
2007	Child Prevention, Intervention, and Services Fellow
2007	Society for Prevention Research Travel Award
2002	Harvard University Cochran Travel Award
2001	Student Paper Award
	ASA Government Statistics/Social Statistics Section/Survey Research Methods Section of the American Statistical Association
2000	American Statistical Association Gertrude Cox Scholarship
2002, 2004	Harvard University Certificate of Distinction in Teaching
1999	Harvard University William Cochran Fellowship
1999-2001	National Science Foundation Graduate Research Fellowship
1997	Smith College Pokora Prize for Senior who excels in Mathematics
1995-1997	Barry M. Goldwater Scholar
1993-1997	Robert C. Byrd Scholar

#### *Named Lectureships*

2021	Keynote, Harvard Data Science Initiative 5-year Anniversary, Harvard University
2021	Distinguished Speaker Series, Research Center for Child Well-Being, University of South Carolina
2021	Myra Samuels Memorial Lecture, Perdue University Department of Statistics
2020	Rod Little Lectureship Award, University of Michigan Department of Biostatistics
2018	Myrto Lefkopoulou Distinguished Lectureship, Harvard University Department of Biostatistics
2017	The Dorothy Wrinch Lecture in Biomathematics, Women in Mathematics in New England Conference, Smith College
2013	Dean's Lecture, Curry School of Education, University of Virginia
2012	Dean's Distinguished Lecture, Harvard University Graduate School of Education

## **PUBLICATIONS**

[\* indicates order of authors alphabetical]

[\*\* indicates student co-author]

### ***Journal Articles (peer review)***

1. Ettman, C.K., Badillo Goicoechea, E., and **Stuart, E.A.** (in press). Evolution of depression and anxiety over the COVID-19 pandemic and across demographic groups in a large sample of U.S. adults. Forthcoming in *AJPM Focus*.
2. Diouf, I. et al. (in press). Effectiveness of multiple disease modifying therapies in relapsing-remitting multiple sclerosis: causal inference to emulate a multi-arm randomised trial. Forthcoming in *Journal of Neurology, Neurosurgery, & Psychiatry*.
3. Griffin, B.A., Stein, B., Schuler, M., **Stuart, E.A.**, Patrick, S., de Lima, P.N., Griswold, M., and Scherling, A. (in press). Identifying Optimal Methods for Addressing Confounding Bias When Estimating the Effects of State-Level Policies. Forthcoming in *Epidemiology*.

4. Ettman, C.K., \*\*Lupton Brantner, C., Albert, M., Goes, F., Mojtabai, R., Spivak, S., **Stuart, E.A.**, and Zandi, P.P. (2023). Trends in telehealth and in-person psychiatric care from 2017-2022 among patients with depression in a large US academic medical system. *Psychiatric Services*. Published online 9 August 2023. <https://doi.org/10.1176/appi.ps.20230064>
5. Gemmill, A., Bell, S., and **Stuart, E.A.** (in press). Association between Texas' 2021 ban on abortion in early pregnancy and changes in live births. Forthcoming in *JAMA*.
6. Tormohlen, K.N., Eisenberg, M.D., Fingerhood, M.I., Yu, J., McCourt, A.D., **Stuart, E.A.**, Rutkow, L., Quintero, L., White, S.A., McGinty, E.E. (in press). Trends in opioid use disorder outpatient treatment and telehealth utilization before and during the COVID-19 pandemic. *Psychiatric Services*. <https://doi.org/10.1176/appi.ps.2023010>
7. Hollander, M.A.G., Kennedy-Hendricks, A., Schilling, C., Meiselbach, M., Stuart, E.A., Huskamp, H., Busch, A.B., Eddelbuettel, J.C.P., Barry, C.L., and Eisenberg, M.D. (in press). Do HDHPs incentivize postponing SUD treatment? *Medical Care Research and Review*. <https://doi.org/10.1177/10775587231180667>
8. Eddelbuettel, J.C.P., Barry, C. L., Kennedy-Hendricks, A., Busch, A.B., Hollander, A. G., Huskamp, H.A., Meiselbach, M.K., Schilling, C., **Stuart, E.A.**, & Eisenberg, M.D. (2023). High-Deductible Health Plans and Non-Fatal Opioid Overdose. *Medical Care*. Published online July 14, 2023. <https://doi.org/10.1097/MLR.0000000000001886>
9. Samuel, L.J., Zhu, J., Dwidevi, P., Stuart, E.A., Szanton, S.L., Li, Q., Thorpe, R.J., Reed, N.S., and Swenor, B.K. (in press). Food insecurity gaps in the Supplemental Nutrition Assistance Program based on disability status. *Disability and Health Journal*. <https://doi.org/10.1016/j.dhjo.2023.101486>
10. Hong, H., Liu, L., Mojtabai, R., and **Stuart, E.A.** (in press) Calibrated meta-analysis to estimate the efficacy of mental health treatments in target populations: An application to paliperidone trials for treatment of schizophrenia. *BMC Medical Research Methodology*. <https://doi.org/10.1186/s12874-023-01958-w>
11. McGinty, E.E., Tormohlen, K., Seewald, N., Bicket, M.C., McCourt, A., Rutkow, L., White, S.A., Stuart, E.A. (2023). Effects of U.S. state medical cannabis laws on treatment of chronic non-cancer pain. *Annals of Internal Medicine*. <https://doi.org/10.7326/M23-0053>
12. Kennedy-Hendricks, A., Eddelbuettel, J., Bicket, M.C., Meiselbach, M.K., Hollander, M., Busch, A.B., Huskamp, H.A., **Stuart, E.A.**, Barry, C.L., Eisenberg, M.D. (2023). Impact of High Deductible Health Plans on US Adults with Chronic Pain. *American Journal of Preventive Medicine*. Available online 13 May 2023. <https://doi.org/10.1016/j.amepre.2023.05.008>
13. Samuel, L.J., Crews, D.C., Swenor, B.K., Zhu, J., **Stuart, E.A.**, Szanton, S.L., Kim, B., Dwivedi, P., Li, Q., Reed, N.S., Thorpe, R.J., (In Press). Supplemental Nutrition Assistance Program Access and Racial Disparities in Food Insecurity. *JAMA Network Open*. <https://doi.org/10.1001/jamanetworkopen.2023.20196>
14. \*\*Lupton Brantner, C., \*\*Chang, T-Y., Hong, H., \*\*Di Stefano, L., Nguyen, T.Q., and **Stuart, E.A.** (in press). Methods for Integrating Trials and Non-Experimental Data to Examine Treatment Effect Heterogeneity. Forthcoming in *Statistical Science*.

15. Gazit, S., Saciuk, Y., Perez, G., Peretz, A., Ben-Tov, A., **Stuart, E.A.**, and Patalon, T. (in press). Hybrid immunity in children and adolescents: does a single dose of the BNT162b2 vaccine enhance naturally-acquired immunity? A target trial emulation. Forthcoming in *The Lancet Microbe*. [https://doi.org/10.1016/S2666-5247\(23\)00103-9](https://doi.org/10.1016/S2666-5247(23)00103-9)
16. Solomon, K.T., O'Connor, J., Gibbons, J.B., Kilaru, A.S., Feder, K.A., Xue, L., Saloner, B., **Stuart, E.A.**, Cole, E.S., Hulsey, E., Meisel, Z., Patel, E., and Donohue, J.M. (In press). Association between hospital adoption of treatment pathways for emergency departments and initiation of buprenorphine. Forthcoming in *JAMA Health Forum*. <https://doi.org/10.1001/jamahealthforum.2023.0245>
17. Olsen, R.B., **Stuart, E.A.**, Bell, S., Miyaoka, A., Badillo Goicoechea, E., Petraglia, E., and Orr, L.L. (in press). Using a Multi-Site RCT to Predict Impacts for a Single Site: Do Better Data and Methods Yield More Accurate Predictions? Forthcoming in *Journal of Research on Educational Effectiveness*.
18. Ettman, C.K., Fan, A.Y., Subramanian, M., Adam, G.P., Badillo Goicoechea, E., Abdalla, S.M., **Stuart, E.A.**, Galea, S. (2023). Prevalence of depression in U.S. adults during the COVID-19 pandemic: a systematic review. *SSM - Population Health* 21(March 2023): 101348. <https://doi.org/10.1016/j.ssmph.2023.101348>
19. Busch, A., Kennedy-Hendricks, A., Schilling, C., Eisenberg, M., Huskamp, H., Barry, C., **Stuart, E.A.**, Meiselbach, M., and Hollander, M. (in press). Measurement Approaches to Estimating Methadone Continuity in Opioid Use Disorder Care. Forthcoming in *Medical Care*. <https://doi.org/10.1097/MLR.0000000000001838>
20. Nolley, E.P., Saheyta, S.K., Hochberg, C.H., Hossen, S., Hager, D.N., Brower, R.G., **Stuart, E.A.**, and Checkley, W. (2023). Outcomes among mechanically ventilated patients with severe pneumonia and acute hypoxemic respiratory failure from SARS-CoV-2 and other etiologies. *JAMA Network Open*. 6(1):e2250401. <https://doi.org/10.1001/jamanetworkopen.2022.50401>
21. Nguyen, T.Q., \*\*Schmid, I., Ogburn, E., Koning, H.M., \*\*Sarker, E.B., Greifer, N., and **Stuart, E.A.** (2023). Causal mediation analysis: From simple to more robust strategies for estimation of marginal natural (in)direct effects. *Statistics Surveys* 17: 1-41. <https://doi.org/10.1214/22-SS140>
22. \*\*Kahn, G.D., Wilcox, H.C., **Stuart, E.A.** (2022). Identifying causal risk factors for self-harm among adolescents with U.S. Child Protective Services contact. Forthcoming in *Archives of Suicide Research*. <https://doi.org/10.1080/13811118.2022.2150104>
23. Meiselbach, M.K., Kennedy-Hendricks, A., Schilling, C., Busch, A., Huskamp, H., **Stuart, E.A.**, Hollander, M.A., Barry, C.L., and Eisenberg, M.D. (2022). High deductible health plans and spending among families with a substance use disorder. *Drug and Alcohol Dependence* 241: 109681. <https://doi.org/10.1016/j.drugalcdep.2022.109681>
24. Chokesuwattanaskul R, Ananwattanasuk T, Hughey AB, **Stuart EA**, Shah MM, Atreya AR, Chugh A, Bogun F, Crawford T, Pelosi F, Cunnane R, Ghanbari H, Latchamsetty R, Chung E, Saeed M, Ghannam M, Liang J, Oral H, Morady F, Jongnarangsin K. (2023). 3D-guided and ICE-guided transseptal puncture for cardiac ablations: a propensity score match study. *Journal of Cardiovascular Electrophysiology*. Published online 2022 Nov 24. Epub ahead of print. PMID: 36423239. <https://doi.org/10.1111/jce.15756>

25. Wissow, L., Mojtabai, R., **Stuart, E.A.**, and Sharifi, V. (in press). Collaborative child mental health care: a cluster randomized controlled trial in a low resource setting. Forthcoming in *JAMA Psychiatry*. <https://doi.org/10.1001/jamapsychiatry.2022.3989>
26. Kush, J., Badillo Goicoechea, E., and **Stuart, E.A.** (in press). Teacher mental health during the COVID-19 pandemic. Forthcoming in *Educational Researcher*. <https://doi.org/10.3102/0013189X221134281>
27. McCourt, A.D., Tormohlen, K.N., \*\*Schmid, I., \*\*Stone, E.M., **Stuart, E.A.**, Davis, C.S., Bicket, M.C., and McGinty, E.E. (in press). Effects of opioid prescribing cap laws on opioid and other pain treatments among persons with chronic pain. *Journal of General Internal Medicine*. <https://doi.org/10.1007/s11606-022-07796-8>
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29. \*\*Lupton-Smith, C., Badillo Goicoechea, E., Collins, M., Lessler, J., Grabowski, M.K., and **Stuart, E.A.** (in press). Consistency between household and county measures of onsite schooling during the COVID-19 pandemic. Forthcoming in *Journal of Research on Educational Effectiveness*. <https://doi.org/10.1080/19345747.2022.2131660>
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### **Books**

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### **Articles, Editorials, and Other Publications not peer reviewed**

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Mortality Misclassification—Response. *American Journal of Epidemiology* 189(9): 989-999. <https://academic.oup.com/aje/article-abstract/189/9/898/5741086?redirectedFrom=fulltext>.

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## Chapters

1. Stuart, E.A. (2021). Accounting for differences in population: Predicting intervention impact at scale. In *The Scale up Effect in Early Childhood and Public Policy: Why Interventions Lose Impact at Scale and What we can do about it*. Edited by John A. List, Dana Suskind, and Lauren Supplee. New York, NY: Routledge/Taylor & Francis. Chapter 14; pp. 265-279.
2. Stuart, E.A. (2019). Propensity scores and matching methods. In *The Reviewer's Guide to Quantitative Methods in the Social Sciences, 2<sup>nd</sup> Edition*. Edited by Gregory R. Hancock, Laura M. Stapleton, and Ralph O. Mueller. New York, NY: Routledge. pp. 388-396.

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## PRACTICE ACTIVITIES

### *Practice-Related Reports*

1. Fahle, E.M., Patterson, T., Reardon, S.F., Staiger, D.O., and **Stuart, E.A.** (2023). School district and community factors associated with learning loss during the COVID-19 pandemic. Center for Education Policy Research. Harvard University. [https://cepr.harvard.edu/sites/hwpi.harvard.edu/files/cepr/files/explaining\\_covid\\_losses\\_5.23.pdf](https://cepr.harvard.edu/sites/hwpi.harvard.edu/files/cepr/files/explaining_covid_losses_5.23.pdf)
2. National Academies of Sciences, Engineering, and Medicine. (2023). *Toward a 21st Century National Data Infrastructure: Enhancing Survey Programs by Using Multiple Data Sources*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26804>.
3. National Academies of Sciences, Engineering, and Medicine. (2022). *Advancing the Framework for Assessing Causality of Health and Welfare Effects to Inform National Ambient Air Quality Standard Reviews*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26612>.



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5. Global trends of mask usage in 19 million adults. October 2020. Chang, T-H., Goicoechea, E.B., Stuart, E.A., Kim, E., Morris, K., LaRocca, S., Cobb, C., Deng, X., Chiu, S., Bradford, A., and Kreuter, F. Blog posting on Social Data Science Center, University of Maryland. <https://socialdatascience.umd.edu/global-trends-of-mask-usage-in-19-million-adults/>
6. Medications for opioid use disorder among American Indians and Alaska natives: Availability and use across the state of Michigan. July 2020. Krawczyk, Noa; Garrett, Brady; Ahmad, N. Jia; Patel, Esita; Solomon, Keisha; Stuart, Elizabeth A; & Saloner, Brendan. Baltimore, MD: Johns Hopkins University.
7. Filling in the blanks: National research needs to guide decisions about reopening schools in the United States. Johns Hopkins Bloomberg School of Public Health Center for Health Security. Contributor. May 2020. [https://www.centerforhealthsecurity.org/our-work/pubs\\_archive/pubs-pdfs/2020/200515-reopening-schools.pdf](https://www.centerforhealthsecurity.org/our-work/pubs_archive/pubs-pdfs/2020/200515-reopening-schools.pdf).
8. Student course and teacher evaluations: A report by the course and teacher evaluation working group of the Scholarship of Teaching and Learning Task Force. Association of Schools and Programs of Public Health. April 20202. [https://s3.amazonaws.com/aspph-wp-production/wp-content/uploads/2020/04/2020-04-02\\_SoTL-CourseTeacherEvalWG\\_Final.pdf](https://s3.amazonaws.com/aspph-wp-production/wp-content/uploads/2020/04/2020-04-02_SoTL-CourseTeacherEvalWG_Final.pdf)
9. Exploring whether a synthetic control arm can be derived from historical clinical trials that match baseline characteristics and overall survival outcome of a randomized control arm: Case study in non-small cell lung cancer. Friends of Cancer Research White Paper. November 2018.
- 10.Guidance on NIMH Grant Application Power Calculations. Wesley Thompson and Elizabeth Stuart, on behalf of the Executive Committee of the Mental Health Statistics (MHS) Section of the American Statistical Association (ASA), on behalf of the American Statistical Association. [https://www.amstat.org/asa/files/pdfs/POL-NIMH\\_PowerCalculations.pdf](https://www.amstat.org/asa/files/pdfs/POL-NIMH_PowerCalculations.pdf)
- 11.Panel on Research Methodologies and Statistical Approaches to Understanding Driver Fatigue Factors in Motor Carrier Safety and Driver Health. (2016). Committee on National Statistics; Board on Human-Systems Integration; Division of Behavioral and Social Sciences and Education; Transportation Research Board; National Academies of Sciences, Engineering, and Medicine. <http://www.nap.edu/author/CNSTAT/division-of-behavioral-and-social-sciences-and-education/committee-on-national-statistics>
- 12.Cody, S., Schirm, A., **Stuart, E.**, Castner, L., and Zaslavsky, A. (2008). *Sources of variation in state-level food stamp participation rates*. Report submitted to the U.S. Department of Agriculture Economic Research Service. Washington, DC: Mathematica Policy Research, Inc. <http://www.mathematica-mpr.com/-/media/publications/pdfs/variation-fspr.pdf>
- 13.McConnell, S., **Stuart, E.A.**, Fortson, K., Decker, P., Perez-Johnson, I., Harris, B., and Salzman, J. (2006). *Managing Customers' Training Choices: Findings from the Individual Training Account Experiment*. Report submitted to the U.S. Department of Labor, Employment and Training Administration. Washington, DC: Mathematica Policy Research, Inc. <http://azmemory.azlibrary.gov/utls/getfile/collection/feddcs/id/524/filename/525.pdf>.



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18. \***Stuart, E.A.** and Zaslavsky, A.M. (2005). *Using administrative records to predict residency: Final Report*. Submitted to the U.S. Bureau of the Census.

### **Media Dissemination**

1. Stuart, E.A., Althoff, K., Smith Rogers, L. (2022). How families can approach “the great un-masking.” March 4, 2022. <https://publichealth.jhu.edu/2022/how-families-can-approach-the-great-unmasking>
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3. **Stuart, E.A.**, Darcey-Mahoney, A., Exum, N., and Raskin, S.E. (2021). A four-point plan to vaccinate America's elementary-school-age children. The Hill. November 10, 2021. <https://thehill.com/opinion/healthcare/580905-a-four-point-plan-to-vaccinate-americas-elementary-school-age-children?rl=1>
4. Schenk, K., and **Stuart, E.A.** (2021). Don't let children under 12 slip through the cracks in the fight against COVID. STAT First Opinion. <https://www.statnews.com/2021/08/10/dont-let-children-under-12-slip-through-the-cracks-in-the-fight-against-covid/>
5. Althoff, K., and **Stuart, E.A.** (2021). Should I ask my friends if they are vaccinated? COVID-19 vaccine etiquette and considerations for all the people in your life. Published 22 June 2021. <https://www.BSPH.edu/covid-19/articles/should-i-ask-my-friends-if-they-are-vaccinated.html/>

6. Ranney, M., and **Stuart, E.A.** (2021). Can I give you a hug? Published 11 June 2021. CNN Opinion. <https://www.cnn.com/2021/06/11/opinions/how-to-touch-after-covid-ranney-stuart/index.html>
7. Limaye, R., Kirk Sell, T., and **Stuart, E.A.** (2021). How can I talk to my friends and family about getting vaccinated for COVID-19? Published 6 May 2021. <https://www.BSPH.edu/covid-19/articles/how-can-i-talk-to-my-friends-and-family-about-getting-vaccinated-for-covid19.html>
8. Veldhuis, C., **Stuart, E.A.**, and Fallin, M.D. (2021). Five Urgent Public Health Policies to Combat the Mental Health Effects of COVID-19. *Health Affairs Blog*. <https://www.healthaffairs.org/doi/10.1377/hblog20210122.959001/full/>
9. Murray, L., Althoff, K., and **Stuart, E.A.** (2020). How to “reach in” to meaningfully connect with loved ones from afar. Published 16 November 2020. <https://www.BSPH.edu/covid-19/articles/how-to-reach-in-to-meaningfully-connect-with-loved-ones-from-afar.html>
10. **Stuart, E.A.**, and Althoff, K. (2020). How to make decisions about winter holiday gatherings amid COVID-19. Published 10 November 2020. <https://www.BSPH.edu/covid-19/articles/decisions-about-winter-holiday-gatherings.html>
11. Althoff, K., and **Stuart, E.A.** (2020). Innovating holiday and winter gatherings in the time of COVID-19. Published 15 October 2020. <https://www.BSPH.edu/covid-19/articles/innovative-holiday-and-winter-gatherings-in-the-time-of-covid-19.html>
12. Althoff, K., and **Stuart, E.A.** (2020). Re-opening: How families can reassess. Published 11 June 2020. <https://www.BSPH.edu/covid-19/articles/re-opening-how-families-can-reassess.html>
13. **Stuart, E.A.**, Polsky, D., Grabowski, M.K., and Peters, D. (2020). 10 tips for making sense of COVID-19 models for decision-making. Published 28 April 2020. <https://www.BSPH.edu/covid-19/articles/10-tips-for-making-sense-of-covid-19-models-for-decision-making.html>
14. **Stuart, E.A.**, Althoff, K., Lessler, J., and Pollack, C. (2020). Schools close to control coronavirus. Will it work? Depends on what we do with our kids. Published 16 March 2020. <https://www.usatoday.com/story/opinion/2020/03/16/schools-closed-but-children-can-still-spread-coronavirus-column/5054108002/>
15. **Stuart, E.A.** (2018). Making the meandering path go where you want it to. StatTr@k: A website for new statistics professional navigating a data-centric world. <https://stattrak.amstat.org/2018/09/01/meanderingpath/>

### **Podcasts**

1. Pandemic learning loss will take years to reverse. Public Health On Call. August 11, 2023. <https://johnshopkinssph.libsyn.com/648-pandemic-learning-loss-will-take-years-to-reverse>

2. Interview with Elizabeth Stuart, Biostatistician and Professor at Johns Hopkins University. The Mixtape with Scott [Cunningham]. May 30, 2023. [https://causalinf.substack.com/p/s2e17-interview-with-elizabeth-stuart?utm\\_source=substack&utm\\_medium=email#details](https://causalinf.substack.com/p/s2e17-interview-with-elizabeth-stuart?utm_source=substack&utm_medium=email#details)
3. Back to school: COVID, new CDC guidance, monkeypox, and more. (with Keri Althoff). Public Health on Call. August 22, 2022. <https://johnshopkinssph.libsyn.com/508-back-to-school-covid-new-cdc-guidance-monkeypox-and-more-with-keri-althoff-and-liz-stuart>
4. Another COVID summer – What’s Changed and What Hasn’t. (with Keri Althoff). Public Health on Call. June 10, 2022. <https://johnshopkinssph.libsyn.com/479-another-covid-summerwhats-changed-and-what-hasnt>
5. Chapter 4 – The Building blocks of epi with Dr. Liz Stuart. SERious Epi. (With Matthew Fox and Hailey Banack). January 19, 2022. <https://seriousepi.blubrry.net/>
6. Navigating another COVID holiday season. (with Keri Althoff). Public Health on Call. December 10, 2021. <https://johnshopkinssph.libsyn.com/407-navigating-another-covid-holiday-season>
7. Can you ask someone if they’re vaccinated? The Quicky: Mamamia Podcasts. September 28, 2021. <https://www.mamamia.com.au/podcasts/the-quickly/how-to-ask-if-someone-is-vaccinated/>
8. The back-to-school episode. (with Keri Althoff). Public Health On Call. August 16, 2021. <https://johnshopkinssph.libsyn.com/359-the-back-to-school-episode>
9. Does in-person schooling put families at risk of COVID-19? (with Justin Lessler). Public Health on Call. May 19, 2021. <https://johnshopkinssph.libsyn.com/320-does-in-person-schooling-put-families-at-risk-of-covid-19>
10. Making safe decisions during the race of “infections vs. injections.” (with Keri Althoff). Public Health on Call. April 15, 2021. <https://johnshopkinssph.libsyn.com/296-making-safe-decisions-during-the-race-of-infections-vs-injections>
11. Considering holiday travel during COVID-19. (with Keri Althoff). Public Health on Call. December 7, 2020. <https://johnshopkinssph.libsyn.com/215-considering-holiday-travel-during-covid-19>
12. Thinking through the fall and winter holidays during COVID-19: Innovative ways to gather and celebrate. (with Keri Althoff). Public Health on Call. October 15, 2020. Contributed to Public Health on Call receiving a Council for Advancement and Support of Education (CASE) Circle of Excellence Award. <https://johnshopkinssph.libsyn.com/180-thinking-through-the-fall-and-winter-holidays-during-covid-19-innovative-ways-to-gather-and-celebrate>
13. How families can make decisions around summer activities during COVID-19. (with Keri Althoff). Public Health On Call. June 24, 2020. <https://johnshopkinssph.libsyn.com/101-how-families-can-make-decisions-around-summer-activities-during-covid-19>
14. How the experts are dealing with COVID-19 in their personal lives. (with Keri Althoff). Public Health On Call. March 31, 2020. <https://johnshopkinssph.libsyn.com/how-the-experts-are-dealing-with-covid-19-in-their-personal-lives>

15. Evening the (propensity) score. The Podcast @ DC. January 10, 2020. <https://soundcloud.com/user-768286365/evening-the-propensity-score>
16. Special co-host Liz Stuart. The Effort Report. November 20, 2017. <https://effortreport.libsyn.com/60-special-co-host-liz-stuart>
17. Ignore the job description (A case study). The Effort Report. July 17, 2017. <https://effortreport.libsyn.com/47-ignore-the-job-description-a-case-study>

### ***Presentations to policy-makers, communities, and other stakeholders***

1. "The Quantum Opportunity Program Demonstration: Final Impacts." Briefing for Deputy Assistant Secretary, U.S. Department of Labor, Washington, DC, 2006.
2. "The Individual Training Accounts Experiment: What Did We Learn?" Briefing for Deputy Assistant Secretary, U.S. Department of Labor, Washington, DC, 2006.
3. "Power analysis for the behavioral sciences". Administration for Children and Families, U.S. Department of Health and Human Services, March 2009.
4. "Introduction to Statistics". State of Delaware Psychiatry Residency Program, March 2009
5. "Recent advances in missing data methods: Imputation and Weighting". U.S. Department of Health and Human Services, Maternal and Child Health Bureau, Epidemiology Training Program Webinar, September 2012 (20 attendees).
6. "The loss of external validity in program evaluations that select sites purposively." Institute of Education Sciences Speaker Series, Washington, DC, 2011.
7. "Analysis methods for enhancing external validity." Invited speaker at two-day meeting on external validity, Office of Planning, Research, and Evaluation, Administration for Children and Families, Department of Health and Human Services, Washington, DC, 2014.
8. "Using propensity scores in difference-in-difference models to estimate causal effects." Invited speaker at Center for Medicare & Medicaid Innovation, Centers for Medicare & Medicaid Services, Baltimore, MD, 2015
9. "Propensity score methods: The why, what and how." One-day short course at Center for Medicare & Medicaid Innovation, Centers for Medicare & Medicaid Services, Baltimore, MD, 2015.
10. "Propensity score methods with complex survey data." Invited lecture at the National Center for Health Statistics, Hyattsville, MD, 2015.
11. "Overview of Panel Report: Research methodologies and statistical approaches to understanding driver fatigue factors in motor carrier safety and driver health." Briefing to the Federal Motor Carrier Safety Administration, U.S. Department of Transportation, Washington, DC, 2016.
12. "Propensity score methods." Invited lecture in the Division of Cancer Control and Prevention Sciences, National Cancer Institute, Bethesda, MD, July 2016.
13. "Tutorial on propensity score methods." Invited tutorial at the Office of Biometrics, Center for Drug Evaluation and Research (CDER), Food and Drug Administration (FDA), July 2016.

14. “Methods for assessing the generalizability of randomized trials to target populations.” One-day short course at Institute of Education Sciences, US Department of Education, December 2017.
15. “Advanced methods for non-experimental studies.” One-day short course at National Center for Education Statistics, US Department of Education, January 2018.
16. Moderator, Panel on Exploring whether a synthetic control arm can be derived from historical clinical trials that match baseline characteristics and overall survival outcome of a randomized control arm: Case study in non-small cell lung cancer. Friends of Cancer Research Annual Meeting. November 2018.
17. “Designs for evidence-based policymaking.” Presentation to the Lab@DC. Washington, DC, January 2019.
18. “Propensity score methods for non-experimental studies.” Short course for Summer at Census. US Census Bureau. Suitland, MD, July 2019.
19. “Propensity scores: The basics and recent advances.” Webinar for the Office of Science, Center for Tobacco Products, US Food & Drug Administration. Webinar, November 2022.

### ***Software development***

1. Ho, D.E., Imai, K., King, G., and **Stuart, E.A.** (2010). MatchIt. Software and package vignette for nonparametric preprocessing for parametric causal inference; listed at the Comprehensive R Archive Network. <http://cran.r-project.org/web/packages/MatchIt/index.html>.

### ***Other: Data availability***

1. \*Ho, D.E., Imai, K., King, G., and **Stuart, E.A.** (2006). Replication Data Set for “Matching as Nonparametric Preprocessing for Reducing Model Dependence in Parametric Causal Inference”, hdl:1902.1/YVDZEQIYDS <http://id.thedata.org/hdl%3A1902.1%2FYVDZEQIYDS> ; UNF:3:QV0mYCd8eV+mJgWDnYct5g== Murray Research Archive [distributor(DDI)]

### **Media Appearances or Quotations**

ABC News (print)  
 Australian Broadcasting Company (ABC; TV)  
 The Associated Press  
 Bloomberg News (radio and TV)  
 CBS News (print)  
 Education Week  
 Gizmodo  
 The Guardian  
 Huffington Post  
 Kaiser Health News  
 National Public Radio (radio and print)  
 The New York Times

The Philadelphia Inquirer  
Politico  
ProPublica  
Reuters  
Tech and Learning  
USA Today  
US News and World Report  
The Wall Street Journal  
The Washington Post  
WebMD  
Wired  
WTOP news (radio)



## CURRICULUM VITAE

Elizabeth A. Stuart

### PART II

#### TEACHING

##### *Academic Advisees*

Valerie Harder                      PhD, Mental Health                      2008  
Cannabis use and depression: Demystifying propensity score techniques  
Current Position: Associate Professor, Public Health Virtual, University of Vermont

Satoko (Janet) Kuramoto-Crawford   PhD, Mental Health                      2011  
Suicidal ideation among inner-city drug users: Association with social support networks  
and polydrug use  
\* Winner of Morton Kramer Award from Department of Mental Health  
Current Position: Social Behavioral Scientist Administrator, National Institute of Drug  
Abuse, National Institutes of Health

Finbarr Leacy                      ScM, Biostatistics                      2012  
On the Joint Use of Propensity and Prognosis Scores in Causal Treatment Effect  
Estimation  
Current Position: Expert Biostatistician, European Medicines Regulatory Network, Health  
Products Regulatory Authority

Grace Lee                      PhD, Mental Health                      2013  
Antecedents, patterns, and consequences of gambling among urban youth  
Current Position: Clinical Trials Results Analyst Associate, ICF International

Hali Hambridge                      ScM, Biostatistics                      2013  
Handling the Complexities of Missing Data in the Context of a Propensity Score  
Analysis.  
\* Delta Omega Inductee  
Current Position: PhD Candidate, Harvard Department of Biostatistics

Megan Schuler                      PhD, Mental Health                      2013  
Estimating the relative treatment effects of natural clusters of adolescent substance  
abuse treatment services: Combining latent class analysis and propensity score  
methods  
Winner of Morton Kramer Award from Department of Mental Health  
Delta Omega Inductee  
Current Position: Policy Researcher, the RAND Corporation

Kara Rudolph                      MHS, Biostatistics                      2014  
(Concurrent with PhD in Epidemiology)  
Estimating population treatment effects from a survey sub-sample  
Current position: Assistant Professor, Department of Epidemiology, Columbia University  
K99/R00 recipient from the National Institute of Drug Abuse

Sarah Naeger	PhD, Mental Health	2014
Associations between Community Violence and Academic Competency in Urban Elementary School Children		
Current Position: Director, Real World Investigator, Sanofi		
Yenny Webb-Vargas (co-advisor)	PhD, Biostatistics	2016
Winner, 2015 Student Paper Award, Government/Social/Survey Statistics Sections of the American Statistical Association		
Current Position: Principal Statistical Scientist, Genentech		
David Lenis	PhD, Biostatistics	2017
Current Position: Vice President, Biostatistics, Aetion		
Luther Kalb	PhD, Mental Health	2017
Mental health crisis in youth with Autism Spectrum Disorder		
Recipient of NRSA F31 award from NICHD (primary mentor)		
Winner of Morton Kramer award from the Department of Mental Health		
Current Position: Assistant Professor, Kennedy Krieger Institute and BSPH		
Adam Pittman	ScM, Biostatistics	2019
Current position: Chief of Population Health, Maryland Health Services Cost Review Commission		
Benjamin Ackerman	PhD, Biostatistics	2020
Methods for transportability: Addressing external validity and measurement error concerns in randomized trials		
Current Position: Principal Statistician, Janssen		
Curtis Leung	DrPH, Health Policy and Management	2020
Current position: Manager, ECG Management Consultants		
Ting-Hsuan Chang	ScM, Biostatistics	2021
Current position: PhD Candidate, Department of Biostatistics, Columbia University		
Lucy Qiao	MHS, Biostatistics	2021
(Concurrent with PhD in Epidemiology)		
Current position: Associate Director, Epidemiology, AstraZeneca - Oncology		
Natalya Kostandova	MHS, Biostatistics	2023
(Concurrent with PhD in Epidemiology)		
Elizabeth Sarker	PhD, Biostatistics	
Leon DiStefano (joint advisor)	PhD, Biostatistics	
Ian Schmid	PhD, Mental Health	
Carly Lupton-Smith	PhD, Biostatistics	

2023 Jane and Steve Dykacz Award honoring the best student paper in medical statistics

Jason Haw MHS, Biostatistics  
(Concurrent with PhD in Epidemiology)  
2023 Louis I. and Thomas D. Dublin Award for work in Epidemiology and Biostatistics

Victoria Green (joint advisor) PhD, Mental Health

Noor Qaragholi DrPH  
Bloomberg Fellow

*Post-doctoral fellows*

Kara Rudolph 2014  
Current position: Assistant Professor, Department of Epidemiology, Columbia University  
K99/R00 recipient from the National Institute of Drug Abuse

Trang Nguyen (co-advisor) 2014-2016  
Current position: Assistant Scientist, Department of Mental Health, Johns Hopkins  
Bloomberg School of Public Health

Hwanhee Hong 2014-2018  
K99/R00 recipient from the National Institute of Mental Health  
Current position: Assistant Professor, Department of Biostatistics and Bioinformatics,  
Duke University

Marissa Seamans 2017 – 2019  
K01 recipient from the National Institute of Drug Abuse  
Current position: Assistant Professor, Department of Epidemiology, University of  
California – Los Angeles

Sachini Bandara 2018 – 2019  
Funded through NIMH T32 on Mental Health Services and Systems  
Current position: Assistant Professor, Department of Mental Health,  
Johns Hopkins Bloomberg School of Public Health

Stephanie Moore 2018-2020  
Funded through NIMH T32 on Mental Health Services and Systems  
Current position: Assistant Professor, University of California – Riverside

Youjin Lee 2019  
Current position: Assistant Professor, Department of Biostatistics, Brown University

Esita Patel (co-advisor, Brendan Saloner) 2019-2021  
Current position: OB/gyn nurse

Keisha Solomon (co-advisor, Brendan Saloner)	2019-2022	
Current position: Research scholar, Howard University		
Noah Greifer	2020-2021	
Current position: Programmer, Harvard University Institute for Quantitative and Social Science		
Joseph Kush (co-advisor, Rashelle Musci)	2021-2022	
Current position: Assistant Professor, James Madison University		
Yongqi Zhong (co-advisor, Bryan Lau)	2021-2022	
Current position: Senior Biostatistician, GRAIL		
Jason Gibbons (co-advisor, Brendan Saloner)	2021 -	
Samantha Harris (co-advisor, Brendan Saloner)	2021-	
Nick Seewald (co-advisor, Beth McGinty)	2021-	
Catherine Ettman	2022-	
<i>MPH Advisees</i>		
Sushant Sahastrabuddhe	2009-2010	
Pamela Trangenstein	2012-2014	
Noor Qaragholi	2021-2022	
<i>MPH Capstone Advisee</i>		
Sushant Sahastrabuddhe	2010	
Haley Gibbs	2015	
Ahmed Hassan	2016	
Siva Mulpuru	2020	
Michael Yan	2020	
Noor Qaragholi	2022	
<i>Master's Thesis Reader</i>		
Keri Calkins, Epidemiology	2014	
Lu Shen, Biostatistics	2014	
Katherine Freeland, Biostatistics	2015	
Jeffery Zhao, Duke University Dept. of Biostatistics	2022	
<i>Preliminary Oral Exam Participation (PhD or DrPH)</i>		
Alisha Creel	Health, Behavior, and Society	2007
Chanelle Howe	Epidemiology	2007
Lauren Cain	Epidemiology	2007
Erin McDonald	Health, Behavior, and Society	2007
Leslie Thornton	Mental Health	2008
Meredith Weaver	Health, Behavior, and Society	2008
Beth Marshall	Population, Family, and Reproductive Health	2008

Bruce Swihart	Biostatistics	2008
Lok Wong	Health Policy and Management	2008
Haley Hedlin	Biostatistics	2008
Julie Leis	Mental Health	2009
Alden Gross	Mental Health	2009
Isadora Gil	Health Policy and Management	2009
Amy Daniels	Mental Health	2009
Jennifer McCleary-Sills	Health, Behavior, and Society	2009
Bridget Ambrose	Epidemiology	2009
Camelia Graham	Mental Health	2009
Fang Tian	Epidemiology	2010
Mara McAdams	Epidemiology	2010
Benjamin Johns	International Health	2010
Brian Weir	Health, Behavior, and Society	2010
Erin Trish	Health Policy and Management	2010
Gregory Tung	Health Policy and Management	2010
David Hanna	Epidemiology	2010
Dell Simmons	Graduate Training Program in Clinical Investigation	2010
John Ayers	Health, Behavior, and Society	2011
Elizabeth Harrison	Population, Family, and Reproductive Health	2011
Alexo Esperato	Health Policy and Management	2012
Christine Buttorff	Health Policy and Management	2012
Sarah Khasawinah	Mental Health	2012
Laysha Ostrow	Mental Health	2013
Jeffrey Duong	Mental Health	2013
Barbara Condliffe	Sociology	2013
Kari Weber	Epidemiology	2013
Parichoy Pal Choudhury	Biostatistics	2013
Eric Roberts	Health Policy and Management	2013
Siri Warkentian	Sociology	2013
Julia Baller	Health Policy and Management	2013
Claudia Salzberg	Health Policy and Management	2014
Alene Kennedy Hendricks	Health Policy and Management	2014
Samira Soleimanpour	Population, Family, and Reproductive Health	2014
Katharine Shelley	International Health	2015
Luke Kalb	Mental Health	2016
Ryan Andrews	Mental Health	2016
Hillary Samples	Health Policy and Management	2016
Taruja Kamarker	Health Policy and Management	2016
Sachini Bandara	Health Policy and Management	2016
Lyndsey Ferris	Health Policy and Management	2017
Alex McCourt	Health Policy and Management	2017
Alex Secora	Epidemiology	2017
Prosenjit Kundu	Biostatistics	2018
Margaret (Jean) Flores	Health Policy and Management	2018
Bingkai Wang	Biostatistics	2018

Rheanna Platt	Graduate Training Program in Clinical Investigation	2018
Amelie Hecht	Health Policy and Management	2018
Molly Francis	Health Policy and Management	2018
Julia Burgdorf	Health Policy and Management	2018
Kayla Tormohlen	Mental Health	2019
Geoff Kahn	Mental Health	2019
Curtis Leung	Health Policy and Management	2019
Bonnie Smith	Biostatistics	2019
Daniel Antiporta	Epidemiology	2019
Sherri-Chanelle Breighthaupf	Mental Health	2019
Debra Bozzi	Health Policy and Management	2019
Trang Nguyen	Biostatistics	2020
Kayte Andersen	Epidemiology	2020
Brendan Rabideau	Health Policy and Management	2020
Natalya Kostandova	Epidemiology	2021
Courtney Nordeck	Mental Health	2021
Leeya Correll	Population Family and Reproductive Health	2021
Elizabeth Stone	Health Policy and Management	2021
Claire Heffernan	Biostatistics	2021
Tyler Smith	Environmental Health and Engineering	2021
Sanjana Pampati	Emory Univ. Dept. Of Epidemiology	2022
Max Rubinstein	Carnegie Mellon Univ. Dept. of Statistics	2022
Kate Nelson	London School of Hygiene and Tropical Medicine, Statistics and Epidemiology	2022
Angela Liu	Health Policy and Management	2022
Jason Haw	Epidemiology	2022
Rui Chen	DrPH	2022
Christopher (Ross) Hatton	Health Policy and Management	2023
Kristin Bevilacqua	Population Family and Reproductive Health	2023

*Final Oral Exam Participation (PhD or DrPH)*

Erin McDonald	Health, Behavior, and Society	2007
Xianbin Li	Biostatistics	2008
Chanelle Howe	Epidemiology	2009
Suzanne Goodwin	Health, Policy and Management	2009
Brian Lee	Epidemiology	2009
Beth Marshall	Population, Family, and Reproductive Health	2009
Leslie Thornton	Mental Health	2009
Nirali Shah	International Health	2010
Anna Christensen	Population, Family, and Reproductive Health	2010
Fengmin Zhao	International Health	2010



Alden Gross	Mental Health	2010
Julie Leis	Mental Health	2010
Amy Daniels	Mental Health	2011
Fang Tian	Epidemiology	2012
Lok Wong Samson	Health Policy and Management	2012
Benjamin Johns	International Health	2012
Nkemdiriri Iruka	Health, Behavior, and Society	2012
Isadora Gil	Health Policy and Management	2012
David Hanna	Epidemiology	2012
Rebecca Evans	Health, Behavior, and Society	2012
Ben Zablotsky	Mental Health	2012
Brian Weir	Health, Behavior, and Society	2012
Gregory Tung	Health Policy and Management	2012
Divya Nair	International Health	2012
Elizabeth Harrison	Population, Family, and Reproductive Health	2013
Lauren Pacek	Mental Health	2013
Megan Schuler	Mental Health	2013
Christina Sun	Health, Behavior, and Society	2014
Kara Rudolph	Epidemiology	2014
Alexo Esperato-Martinez	Health Policy and Management	2014
Marian Jarlenski	Health Policy and Management	2014
Laysha Ostrow	Mental Health	2014
Christine Buttorff	Health Policy and Management	2014
Julia Baller	Health Policy and Management	2014
Emily Adrion	Health Policy and Management	2015
Claudia Salzberg	Health Policy and Management	2015
Samira Soleimanpour	Population, Family, and Reproductive Health	2015
Hoon Byun (DrPH)	Health Policy and Management	2016
Yi Lu	Biostatistics	2016
Steve Sutch (DrPH)	Health Policy and Management	2016
Mariana Socal	International Health	2017
Katharine Shelley	International Health	2017
Krycia Cowling	Health Policy and Management	2017
Nicole Fusco	Epidemiology	2017
Kriti Jain	Health Behavior and Society	2018
Sachini Bandara	Health Policy and Management	2018
Elizabeth Humberstone	Education	2018
Margaret (Jean) Flores	Health Policy and Management	2019
Lindsey Ferris	Health Policy and Management	2019
Julia Burgdorf	Health Policy and Management	2020
Amelie Hecht	Health Policy and Management	2020
Kayla Tormohlen	Mental Health	2020
Molly Francis	Health Policy and Management	2020
Imke Mayer	EHESS, Ecole Polytechnique	2021
Debra Bozzi	Health Policy and Management	2021
Geoff Kahn	Mental Health	2021
Trang Nguyen	Biostatistics	2021

Sarah Robertson	Brown University Epidemiology	2021
Rheanna Platt	Graduate Training Program in Clinical Epidemiology	2022
Brendan Rabideau	Health Policy and Management	2022
Ayobami Akenroye	Epidemiology	2022
Max Rubinstein	Carnegie Mellon University	2023
Wanyu Huang	Engineering	2023
Natalya Kostandova	Epidemiology	2023
Elizabeth Stone	Health Policy and Management	2023

#### *Training Grant Mentorship*

Co-Sponsor, PI: Elizabeth Stone (Johns Hopkins Bloomberg School of Public Health)

F31MH131311-01; 9/1/22 – 8/31/24

“The role of state agencies in mental health services for individuals with co-occurring intellectual and developmental disabilities and mental illness”

Co-Mentor, PI: Genevieve Graaf (University of Texas Arlington School of Social Work)

K01MH129991; 5/1/22-4/30/2026

“Assessing the impacts of Medicaid Home and Community Based Waivers for children with Severe Emotional Disturbance”

Co-Mentor, PI: Sunny Bai (Pennsylvania State University)

KL2 award; 5/22-4/24

“Crossover Effects of a Universal Adolescent Substance Use Prevention Program on Suicide Risk in Adulthood: Causal inference methods for studying mechanisms of change”

Co-Mentor, PI: Alina Schnake-Mal (Drexel University)

“Social and policy determinants and impacts on COVID-19 and influenza disparities”

(K01AI168579); 02/10/2022 - 02/01/2027

Co-Sponsor, PI: Kira Riehm (BSPH)

F31 award, National Institute of Mental Health (F31MH124330)

“Diagnostic, treatment, and health-related outcomes of depression screening in primary care settings: a longitudinal cohort study of adolescents”

Co-Mentor, PI: Catherine Lesko (BSPH)

K01 award, National Institute on Alcohol Abuse and Alcoholism (K01AA028193)

“Unhealthy alcohol use, other drug use, and mental health disorders: comorbidity burden in people with HIV, gaps in treatment, and impact on the HIV care continuum”

Co-Mentor, PI: John Jackson (BSPH)

K01 award, National Heart Lung and Blood Institute (NHLBI)

Co-Sponsor, PI: Geoff Kahn (BSPH)

F31 award, National Institute of Mental Health (F31MH120973)

“Predicting Suicide Attempts in Youth with Child Protective Services Contact”

Co-Mentor, PI: Alan Rathbun (University of Maryland)

Pilot Study, Claude D. Pepper Older Americans Independence Center

University of Maryland School of Medicine

“Characterizing the Heterogeneity and Role of Depression in Hip Fracture Recovery”

Advisor, PI: Catherine Maulsby (BSPH)

K01 award, National Institute of Mental Health (K01MH111388)

“An HIV Retention in Care Intervention for Black MSM in Baltimore with a Job Readiness Component”

Mentor, PI: Hwanhee Hong (BSPH/Duke)

K99 award, National Institute of Mental Health (K99MH111807)

“Estimating Population Effects in Mental Health Research Using Meta-Analysis”

Mentor/Research Supervisor, PI: John Jackson (BSPH)

NIH LRP

### *Classroom Instruction*

Johns Hopkins University

<u>Year</u>	<u>Course/Description</u>	<u>Enrollment</u>
2008 -	Estimating causal effects in medicine and public health Dept. of Biostatistics 140.664 (Onsite and online)	50 - 120
2011 -	Seminar in statistical methods for mental health Dept. of Mental Health 330.805	10 - 25
2010 -	Estimating the effects of mental health interventions in non-experimental settings Mental Health Summer Institute	5 - 21
2009 -	Missing data methods for mental health Research Mental Health Summer Institute	4 - 12

### *Guest Lectures*

2016-2017	Public health perspectives on Autism Spectrum Disorders (D. Fallin and L. Li)
2011	Advanced Statistical Methods in Education Research (M. Stein) JHU School of Education ED.883.720 Instructor for 2 sessions on power analysis
2009	Doctoral Seminars in Epidemiology (S. Goodman) Co-instructor for 3 sessions on causal inference BSPH Epidemiology 340.863.01
2008-2011	Seminars on Methods in Public Mental Health Research (P. Leaf) BSPH Mental Health 330.660.01
2006-	Prevention of Mental Disorders: Public Health Interventions (N. Ialongo and G. Rebok) BSPH Mental Health 330.607.01

## Other institutions

2006 Causal Inference in Randomized Experiments and Observational Studies  
Joint Program in Survey Methodology, University of Maryland

### Other Teaching

“Statistical Inference for causal effects in experiments and observational studies through potential outcomes.”

Short course (with Donald B. Rubin and Samantha R. Cook)

Offered at the Food and Drug Administration (2003), Harvard University (2004), the Joint Statistical Meetings (2003), Karolinska Institute (Stockholm; 2004), the Medical College of Wisconsin (2003), the Conference of the Society for Multivariate Analysis in the Behavioral Sciences (SMABS, 2004), Smith College (2005), and the University of Minnesota (2003)

## “Missing Data Methods in Criminology”

Department of Criminology, University of Maryland, April 2009, December 2011

“Applied Propensity Score Analysis II: Practical Considerations and Lessons for Use”  
AcademyHealth webinar, January 2010 (> 100 attendees)

## “The how, when, and why of the use of matching methods and propensity scores”

Advanced Quantitative Methods in Education Research, UCLA College of Education,  
April 2010 (35 attendees)

Short course at the 2015 International Meeting of the Psychometric Society, Beijing, China, July 2015

“Recent advances in missing data methods: Multiple Imputation by Chained Equations.”  
AcademyHealth Annual Research Meeting methods seminar, June 2010 (80 attendees).

“Multiple imputation using chained equations”.

International Conference on Health Policy Statistics workshop, October 2011 (50 attendees)

## “The how, when, and why of the use of matching methods and propensity scores”

American Statistical Association Philadelphia Chapter, Short Course, November 2011  
(50 attendees)

Johnson and Johnson, April 2012 (100 attendees)

University of Pennsylvania Graduate School of Education, IES Training Program (25 attendees);

European Educational Research Association, Oslo, Norway, May 2014 (25 attendees).

## “Introduction to methods for handling missing data”

BSPH Center for American Indian Health, January 2012 (15 attendees)

## The how, when, and why of the use of matching methods and propensity scores

JHMI General Internal Medicine Fellows Program, November 2012

“Propensity score methods for estimating causal effects in pharmaceutical research: The why, when and how.”

ASA Biopharmaceutical Section/FDA Workshop, September 2014

American Statistical Association webinar, June 2015 (over 100 attendees)

Food and Drug Administration, July 2017

“Non-experimental study methods for psychiatry”

American Psychopathological Association, December 2022

## RESEARCH GRANT PARTICIPATION

### *Principal Investigator*

<u>Title</u>	<u>Agency</u>	<u>Level</u>	<u>Budget Amount</u>
Exploring Health and Wealth: Developing Novel Approaches to Understanding the Impact of Economic Precarity on Hospital Outcomes among Patients with Depression in the JHU System (1/1/22-12/31/22) Multi-PI, with Catherine Ettman and Peter Zandi	Hopkins Business of Health Initiative	NA	\$12,500
Design and analysis advances to improve generalizability of clinical trials for treating opioid use disorder (9/15/22 – 6/30/2027) R01DA056407 multi-PI; contact PI: Kara Rudolph (Columbia University)	NIDA	10%	\$770,972
Combining data sources to identify effect moderation for personalized mental health treatment (8/19/2021-5/31/2025) R01MH126856	NIMH	10%	\$1,730,235
Advanced computational approaches for integrating data to assess effect heterogeneity (11/1/2021-11/30/2025) ME-2020C3-21145	PCORI	10%	\$749,779
Data integration for causal inference In behavioral health (7/1/2020-6/30/2025) T32MH122357	NIMH	NA	\$1,217,290
RAPID: Evaluating the impact of COVID-19 on labor market, social, and mental health outcomes (2028683)	NSF	1%	\$200,000

co-PI's: Bennett (USC), de Bruin (USC), Krueter (Maryland), Stuart (BSPH), Thrul (BSPH)

Causal mediation methods for Studying mechanisms in mental health R01MH115487	NIMH	20%	\$1,309,834
Training Program in Mental Health Services and Systems co-PI with Colleen Barry (7/1/2018-6/30/2022) T32MH109436	NIMH	NA	\$1,042,215
Using propensity scores for causal inference with covariate measurement error (7/2013-6/2017) R01MH099010	NIMH	35%	\$1,119,057
Estimating population treatment effects: Incorporating propensity scores with complex survey data (7/2015-6/2018) R305D150001 co-PI with Nianbo Dong	IES	15%	\$798,022
Statistical methods for using rigorous evaluation results to improve local education policy decisions (7/2015-6/2018) R305D150003 co-PI with Robert Olsen	IES	15%	\$896,361
Enhancing external validity in existing STEM evaluations (10/2013-9/2016) DRL-1335843 co-PI with Robert Olsen	NSF	12%	\$796,205
Estimating population effects of mental health interventions (8/2008-7/2013) K25MH083846	NIMH	75%	\$727,092
Instrumental variables and propensity score methods when dealing with noncompliance (completed)	BSPH Faculty Innovations Fund	20%	\$29,557
Using administrative records to predict Census day residency (completed)	U.S. Census Bureau	10%	\$210,000



*Co-investigator*

<u>Title</u>	<u>Grant Number</u>	<u>PI</u>	<u>Agency</u>
Evaluating and enhancing community Violence interruption effectiveness in the Nation's Capital City 4/3/23 – 12/31/26	NA	Webster & Richardson	Arnold Ventures
Implementation of the federal 988 suicide and mental health crisis hotline policy: determinants and effects of state policy implementation financing strategies 9/1/22 – 8/31/26	R01MH131649	Purtle	NIMH
Methods for generalizing inferences from cluster randomized trials to target populations 2/4/2022 – 12/31/2025 (BSPH site-PI)	R01LM013616	Dahabreh	NILM
Studying how state and local health services delivery policies can mitigate the effects of disasters on drug addiction treatment and overdose: A mixed methods study of COVID-19 8/1/2021-5/20/2025; \$1,727,672 (directs)	R01DA049789	McGinty	NIDA
State Medical Cannabis Laws, Chronic Pain, and Opioids: A Mixed-Methods Approach	R01DA049789	McGinty	NIDA
Using licensure authority to increase access to medications for opioid use disorder in specialty treatment	NA	Saloner	Arnold Ventures
Bloomberg Opioid Initiative (Evaluation core co-lead)	NA	Sharfstein	Bloomberg Philanthropies
ECHODAC: Environmental influences on child health outcomes data analysis center	U24ODO23382	Jacobsen	NIH (Director)
Center to accelerate translation of interventions to decrease premature mortality in SMI (Methods core co-Director)	P50MH115842	Daumit	NIMH
Center for Opioid Policy Research (site PI)	P50DA046351	Stein	NIDA

A national evaluation of Medicaid expansion on the prevention of child abuse and neglect, youth violence, and intimate partner violence	U01CE002947	Letourneau	CDC
Site selection when participation is voluntary: Improving the external validity of randomized trials	R305D190020	Olsen	IES
An evaluation of state laws intended to curb high-risk opioid prescribing	R01DA044987	Rutkow/ McGinty	NIDA
Consumer-directed health plans and substance use disorder treatment	R01DA044201	Barry	NIDA
Comorbid patterns with alcohol use disorders	R01AA016346	Crum	NIAAA
Testing the efficacy of a developmentally-informed coping power program in middle schools	R305A140070	Pas	IES
Impacts of payment reform on racial disparities in hospital psychiatric care	R01MD010255	Slade	NIMHD
Impacts of payment reform on the organization of hospital care for persons with mental illness	R01MH107459	Slade	NIMH
RAP club improving mental health and school performance in urban eighth graders	R305A160082	Mendelson	IES
A trauma informed intervention to improve mental health and school success for urban eighth graders	R01HD090022	Mendelson	NICHD
Statistical methods to correct for measurement error in self-reported dietary data from lifestyle intervention trials (site PI)	R01HL127491	Siddique	NHLBI
Development & Malleability from childhood to adulthood	R01DA044184	Ialongo	NIDA
Evaluating Maryland state policies to improve school climate	R305H150027	Pas	IES

Making better use of randomized trials: Assessing applicability and transporting causal effects	ME-1502-27794	Dahabreh (Stuart: Site PI)	PCORI
Generalizing RCT Efficacy Evidence: application to NIDA Clinical Trials Network	R01DA036520	Mojtabai	NIDA
Social Consequences of Mental Disorders: a Ten-Year Follow-up Study	R01MH096826	Mojtabai	NIMH
Impact of Increasing Adolescent depression Literacy on Treatment-Seeking behavior	R01MH095855	Wilcox	NIMH
Heterogeneity in Prevention Intervention Effects On Substance Use: A Latent Variable Causal Modeling Approach (PI on subcontract)	R01DA031698	Jo	NIDA
Identifying Predictors of Program Implementation to Inform A Tailored Teacher Coaching Process	R305A130060	Bradshaw	IES
Feasibility of Web-Based Coach Training to Support Classroom Prevention Programs	R21DA034206	Ialongo	NIDA
Center for Prevention and Early Intervention	P30MH086043	Ialongo	NIMH
Estimating mental health expenditures using national household survey data (PI on subcontract)	R21MH096285	Slade	NIMH
SMI Dual Eligibles and Medicare Part D: Impact on Medication Continuity and Outcomes	R01MH079974	Steinwachs	NIMH
Community violence & youth: Affect, behavior, academics (completed)	R01DA018318	Cooley	NIDA
Center for the Prevention of Youth Violence	U01CE001954	Leaf	CDC
Enhancing Safe Sleep Practices among Urban, Low-Income Mothers	R01HD072821	Gielen	NICHD
Substance use disorder treatment under new payment and delivery system models	R01DA035214	Huskamp, Barry	NIDA
Implementation of Federal Mental	R01MH093414	Barry	NIMH

Health Parity

## **ACADEMIC SERVICE**

*Johns Hopkins Bloomberg School of Public Health*

Member, Committee on Finance, 2022 -  
Chair, Health Policy and Management Chair Search Committee, 2021  
Co-Chair, Onsite Instruction Restart Committee, 2021  
Executive Vice Dean of Finance and Administration Search Committee, 2020  
Co-Chair, Health Policy Statistician Faculty search, 2019  
Health Behavior and Society Department Review and Chair Search Committee, 2018  
Department of Biostatistics Faculty Search Committee, 2017-2018  
Department of Epidemiology Faculty Search Committee, 2017  
Committee on Academic Standards, 2016-  
Hopkins Population Center Faculty Coordinating Committee, 2016-  
JHU Leadership Development Program (LDP), 2016  
Committee on Appointments and Promotions, 2015-2016  
Faculty Search Committee, Department of International Health, 2015-2016  
Biostatistics Learning Advisory Committee, 2008-  
Strategic Plan Steering Committee, 2007-2008  
Department of Mental Health seminar coordinator, 2007  
Biostatistics and Mental Health Causal Inference Working Group Coordinator, 2007-  
Department of Mental Health Admissions Committee, 2008-2013

*Johns Hopkins University*

AI-X Foundry Academic Program Committee, 2023-  
Race Neutral Alternatives Admissions Group, 2023-  
PhD Collective Bargaining Agreement negotiating team, 2023-  
Middle States Commission on Higher Education re-accreditation self-study working group, 2022 -  
Vivien Thomas Scholars Initiative Working Group and Admissions Committee, 2021 -  
JHU Student Services Excellence Initiative Governing Council, 2020 - 2021  
JHU Teaching Academy Advisory Council, 2019 -  
Biomedical Workforce Taskforce, 2018 - 2019  
Johns Hopkins University inHealth Methodology Working Group, 2013-2015  
PhD Innovation Initiative Review Committee, 2013

## **PRESENTATIONS**

*Invited talks at scientific meetings*

Using administrative records to predict Census day residency.

- Joint Statistical Meetings, Atlanta, GA, 2001.

Choosing well matched historical patients to supplement a randomized clinical trial.

- New England Statistics Symposium, Harvard University, Cambridge, MA, 2004.

Matching with multiple control groups and adjusting for differences between the groups.

- Joint Statistical Meetings, Minneapolis, MN, 2005.
- Mid-Atlantic causal inference workshop, Columbia University, New York, NY, 2005.

Estimating causal effects using school-level datasets.

- National Academy of Sciences Board on Testing and Assessment's Symposium on the Use of School-level Data, Washington, DC, 2005.

Dealing with control group dropout: Using historical patient information to supplement a randomized trial.

- Joint Statistical Meetings, Salt Lake City, UT, 2007.

Causal inference in education research.

- American Educational Research Association Dissertation Grants Conference, 2007.

Practical issues in implementing multiple imputation.

- Association for Public Policy Analysis and Management Annual Research Meeting, Washington, DC, 2007.

Discussion of "Is regression adjustment supported by the Neyman model for causal inference?" (P. Schochet).

- Association for Public Policy Analysis and Management Annual Research Meeting, Washington, DC, 2007.

Defining baseline using propensity score matching: Application to a clinical trial.

- International Conference of Health Policy Statistics, Philadelphia, PA, 2008.
- Sixth annual American Statistical Association Connecticut Chapter Mini-Conference on Applied Causal Inference, 2008.

Discussion of "Individual and contextual differences in treatment effects: New methodologies for experimental and observational research." Invited Discussion.

- Society for Prevention Research Annual Meeting, San Francisco, CA, 2008.

New Directions in Prevention Science: Statistical Methodology. (Invited talk in session "Emerging investigators and emerging ideas in prevention science.")

- Society for Prevention Research Annual Meeting, San Francisco, CA, 2008.

Assessing generalizability: Case study of PBIS.

- Statistical and Applied Mathematical Sciences Institute Summer 2008 Program on Meta-analysis: Synthesis and Appraisal of Multiple Sources of Empirical Evidence, Durham, NC, 2008.

Using propensity scores to select subjects for follow-up.

- Probability and Statistics Day, University of Maryland Baltimore County, 2009.

The use of propensity scores to assess generalizability.

- Atlantic Causal Modeling Conference, University of Pennsylvania, 2009.

Connections between *Experimental Designs* and non-experimental designs.

- Joint Statistical Meetings, Washington, DC, 2009.

Generalizing evidence from randomized clinical trials to target populations: The ACTG-320 trial.

- Joint Statistical Meetings, Vancouver, BC, Canada, 2010.

Estimating Causal Effects. (Invited discussant)

- American Political Science Association Annual Meeting, Washington, DC, 2010.

From propensity scores to prognosis scores: Matching methods in the context of principal stratification.

- Causal Inference in Health Research meeting, Centre de Recherche Mathematiques, Montreal, QC, Canada, 2011.

Challenging issues in the analysis of large-scale observational data: What you need to know.

- American Educational Research Association Grantee Meeting, Washington, DC, 2011.

Recent advances in estimating causal effects using prospective electronic clinical data.

- EDM Forum Methods Symposium, Washington, DC, 2011.

Statistical approaches to studying mediator effects in education research. (Invited discussant)

- Society for Research on Educational Effectiveness Spring 2012 Conference, Washington, DC, 2012.

Estimates of external validity bias when impact evaluations select sites purposively.

- Society for Research on Educational Effectiveness Spring 2012 Conference, Washington, DC, 2012.

Getting ready for propensity score methods: Designing non-experimental studies and selecting comparison groups.

- Office of Planning, Research, and Evaluation, Administrative for Children & Families, U.S. Department of Health and Human Service, Washington, DC, 2012.

Advances and challenges in propensity score matching. (Invited discussant)

- Society for Research on Educational Effectiveness Spring 2013 Conference, Washington, DC, 2013.

Strategies for dealing with covariate measurement error in propensity scores.

- Society for Research on Educational Effectiveness Spring 2013 Conference, Washington, DC, 2013.
- Joint Statistical Meetings, Boston, MA, 2014

Statistical methods for assessing and enhancing external validity of randomized experiments.

- AcademyHealth Annual Research Meeting, Baltimore, MD, 2013.
- Association for Psychological Science Annual Meeting, Washington, DC, 2013.
- Health Services Research Network, The Health Foundation, London, UK, 2014

Methods for assessing sensitivity to unobserved confounding in non-experimental studies.

- AcademyHealth Annual Research Meeting, Baltimore, MD, 2013.

Identifying Elements of Your Intervention that Generate Positive Impacts: Methodological Progress for Experimental Research. (Invited discussant)

- Office of Planning, Research, and Evaluation, Administrative for Children & Families,



U.S. Department of Health and Human Service, Welfare Research and Evaluation Conference, Washington, DC, 2013.

Innovations in Propensity Score Methods for Addressing New Causal Questions in Observational Studies. (Invited discussant)

- Joint Statistical Meetings, Montreal, Canada, 2013.

Model Selection and Uncertainty in Causal Effect Estimation. (Invited discussant)

- Joint Statistical Meetings, Montreal, Canada, 2013.

Using propensity scores and difference-in-differences methods to estimate the effects of mental health parity.

- International Conference on Health Policy Statistics, Chicago, IL, 2013.

Statistical methods for data synthesis. (Invited discussant)

- International Conference on Health Policy Statistics, Chicago, IL, 2013.

Assessing external validity: A discussion of setting standards. (Roundtable leader)

- American Evaluation Association Annual Meeting, Washington, DC, 2013.

Reweighting methods for generalizing results from RCTs.

Propensity score methods for estimating causal effects

- National Academy of Sciences Meeting on Observational Studies, for the National Institute of Aging, 2014.
- Society for Epidemiologic Research Annual Meeting, Seattle, WA, 2014.

Assessing methods for generalizing experimental impact estimates to target samples

- Atlantic Causal Inference Conference, Brown University, 2014

Bayesian approaches for handling differential covariate measurement error in propensity score methods

- International Biometrics Conference, Florence, Italy, 2014

Statistical Challenges in Education Research (Invited Discussant)

- Joint Statistical Meetings, Boston, MA, 2014

Using big data to estimate population treatment effects

- Workshop on big data in health policy, The Fields Institute, Toronto, Canada, 2015

“Implications of and solutions for covariate measurement error and differential covariate measurement across treatment groups.”

- FDA/University of Maryland M-CERSI workshop on “Methodological Considerations to address Unmeasured Health Factors in Pharmacoepidemiology Studies that Rely on Electronic Healthcare Databases to Evaluate the Safety of Regulated Pharmaceutical Products in the Post-approval Setting.” Silver Spring, MD, May 2015.
- International Meeting of the Psychometric Society, Beijing, China, July 2015
- University of Illinois at Chicago Department of Psychiatry Division of Biostatistics and Epidemiology. Chicago, IL, January 2016.

#### Statistical methods for implementation science

- Center for AIDS research conference on social and behavioral sciences, Baltimore, MD, October 2015

#### Estimating population treatment effects for public health interventions

- Dean's Lecture, BSPH, Baltimore, MD, February 2016
- Ross-Royall Symposium on population inference, BSPH, Baltimore, MD, February 2016

#### Invited discussion on big data

- Refining the concept of scientific inference when working with big data. A workshop of the Committee on Applied and Theoretical Statistics, The National Academies of Sciences, Engineering, Medicine. Washington, DC, June 2016

#### Methods for assessing and enhancing the external validity of randomized trials

- Keynote lecture, ActStat annual meeting, Chicago, IL, July 2016.
- Keynote lecture, United Kingdom Causal Inference Meeting (UK CIM), University of Essex, April 2017.
- Stockholm Conference on Behavioral and Social Intervention Research: Premises, Challenges, and Revisiting Positions. Stockholm, Sweden, May 2017.
- World Psychiatric Association Epidemiology and Public Health section. New York, NY, May 2018.

#### Machine learning methods for causal inference in non-experimental studies

- Joint Statistical Meetings, Baltimore, MD, August 2017.

#### Discussion, Statistical methods for suicide research

- Joint Statistical Meetings, Baltimore, MD, August 2017.

#### Discussion, Collecting comprehensive and representative input

- US Food and Drug Administration Stakeholder Meeting, December 2017.

#### Invited moderator, Session on use of historical patient data in single arm trials

- Friends of Cancer Research Annual Meeting, Washington, DC, October 2018.

#### Consequences of effect heterogeneity when predicting site-level impacts

- US Department of Education PI's meeting, Washington, DC, January 2019.

#### Confounding? Assumptions? Huh? Mediation analysis in the psychology and psychiatry literature.

- University of Florida Department of Statistics meeting on Causality and Mediation, Gainesville, FL, January 2019.

#### Propensity score methods for estimating policy effects

- Society for Epidemiologic Research webinar (> 150 attendees); March 2019

#### Opportunities for, and complexities of, using real world data

- NISS/Merck Webinar meet-up (> 320 attendees); April 2019

#### Data and methods for estimating the effects of state opioid policies

- National Academies of Science Engineering and Medicine; Committee on Applied and Theoretical Statistics; June 2019

Discussion: Evaluating strategies to reduce gun violence

- National Institute of Statistical Sciences Ingram Olkin Statistics Serving Society (S3) Forum; June 2019

Keynote Speaker, Assessing and enhancing the external validity of randomized trials

- Australasia Epidemiologic Association Annual Meeting, Brisbane, Australia; October 2019

The landscape for evaluation of programs and policies to reduce the consequences of the opioid epidemic

- International Conference on Health Policy Statistics, San Diego, January 2020

Invited discussant, “Leveraging existing data on the opioid epidemic to quantify risk and inform policy”

- International Conference on Health Policy Statistics, San Diego, January 2020

Statistical questions, and challenges, for estimating the effects of opioid-related policies and programs

- International Conference on Health Policy Statistics, San Diego, January 2020

The use of synthetic control and other covariate adjustment strategies for policy evaluation

- International Conference on Health Policy Statistics, San Diego, January 2020

Accounting for differences in population: Predicting intervention impact at scale

- Society for Prevention Research, virtual conference, June 2021

The future of methods and measures in education research

- National Academies of Sciences, Engineering, and Medicine meeting on The Future of Education Research and the Institute of Education Sciences in the US Department of Education, virtual meeting, July 2021

Combining experimental and non-experimental data to examine treatment effect heterogeneity

- American Psychopathological Association, New York City, March 2023

*Other talks and posters at scientific meetings presented by E.A. Stuart*

Matching using two control groups.

- Joint Statistical Meetings, San Francisco, CA, 2003.

Individual-level multiple systems estimation: Predicting Census day residency.

- Joint Statistical Meetings, Toronto, Ontario, 2004.

Estimating causal effects using multiple control groups.

- Conference for the Society for Multivariate Analysis in the Behavioral Sciences (SMABS), Jena, Germany, 2004.

Using historical patients to supplement a randomized trial.

- Biennial CDC and ATSDR Symposium on Statistical Methods, Washington, DC, 2005.

Estimation of state-level standardized food stamp participation rates.

- Joint Statistical Meetings, Seattle, WA, 2006.

Design and implementation of case-control matching to estimate the effects of value-added assessment.

- American Educational Research Association Meeting, San Francisco, CA, 2006.

Making use of limited resources: Optimal selection of subjects for follow-up.

- Society for Prevention Research Annual Meeting, Washington, DC, 2007.
- Prevention Science Methodology Group conference. Baltimore, MD, 2008.
- Society for Prevention Research Annual Meeting, Washington, DC, 2009.

Using Full Matching to Estimate Causal Effects in Non-Experimental Studies: Examining the Relationship between Adolescent Marijuana Use and Adult Outcomes.

- Society for Epidemiologic Research, Boston, MA, 2007.
- Society for Prevention Research Annual Meeting, San Francisco, CA, 2008.

Handling missing data: The motivation and method of multiple imputation.

- 21<sup>st</sup> Annual Research Conference: A System of Care for Children's Mental Health: Expanding the Research Base. Tampa, FL, 2008.

Assessing generalizability: Case study of PBIS.

- Society for Prevention Research Annual Meeting, Washington, DC, 2007.
- 2<sup>nd</sup> Annual NIH conference on the science of dissemination and implementation: Building research capacity to bridge the gap from science to service. Bethesda, MD, 2009.
- American Public Health Association Annual Meeting, Philadelphia, PA, 2009.
- Society for Prevention Research Annual Meeting, Washington, DC, 2011.

Combining experimental and population data: Moving towards external validity.

- Banff International Research Station Workshop on Causal Inference, Banff, Canada, 2009.

Estimating mediation using propensity score matching.

- Society for Prevention Research Annual Meeting, Washington, DC, 2009.

Balance metrics for propensity score methods.

- Joint Statistical Meetings, Miami Beach, FL, 2011.

Using multiple imputation – external calibration for propensity score estimation in the presence of covariate measurement error

- Society for Research in Educational Effectiveness Annual Meeting, March 2013
- National Council on Measurement in Education Annual Meeting, April 2014
- Society for Prevention Research Annual Meeting, May 2015

Bayesian approaches for handling differential covariate measurement error in propensity score methods

- International Biometrics Society Conference, Florence, Italy, July 2014

Invited Discussant, Session on Integrative Data Analysis

- Gerontological Society of America, Washington, DC, November 2014

Keynote speaker, Causal inference

- University of Umea Winter Conference in Statistics, Borgafjall, Sweden, March 2015

Combining Propensity Score Methods and Complex Survey Data to Estimate Population Treatment Effects.

- Society for Research on Educational Effectiveness Annual Meeting, Washington, DC, March 2016

Invited Discussant, Recent advances in matching methods for non-experimental studies

- Joint Statistical Meetings, Chicago, IL, July 2016

Recent advances in non-experimental comparison group designs

- Building Strong Evidence in Challenging Contexts: Alternatives to traditional randomized controlled trials. Office of Planning Research and Evaluation, Administration for Children & Families, U.S. Department of Health and Human Services, September 2016

Keynote speaker, Moving towards external validity: Methods for assessing the generalizability of randomized trial results to target populations

- ActStat Annual Meeting, Chicago, IL, August 2016

Using historical patient data to estimate population treatment effects

- ENAR Spring Meeting, International Biometric Society, Washington, DC, March 2017

Mediation analyses to examine behavioral interventions

- Association for Behavioral and Cognitive Therapies, online, November 2020

Using stacked comparative interrupted time series methods for opioid policy evaluation

- ENAR Spring Meeting, International Biometric Society, virtual, March 2021
- Invited discussant, fusion designs for epidemiologic research
- Society for Epidemiologic Research annual meeting, Chicago, IL, June 2022

The role of epidemiology in expert consensus panels

- Society for Epidemiologic Research annual meeting, Chicago, IL, June 2022

Invited discussant, fusion designs for epidemiologic research

- Society for Epidemiologic Research annual meeting, Chicago, IL, June 2022

Scientific communication for epidemiologists during the COVID-19 pandemic

- Society for Epidemiologic Research annual meeting, Chicago, IL, June 2022

Discussant, Statistical methods for studying disparities

- Joint Statistical Meetings, Washington, DC, August 2022

Discussant, Making meta-analysis easy

- Society for Research on Educational Effectiveness annual meeting, Alexandria, VA, September 2022

Invited Discussant, Plenary (Dr. Sherry Glied)

- International Conference on Health Policy Statistics, Scottsdale, AZ, January 2023

### Invited Colloquia

Matching methods for estimating causal effects using multiple control groups.

- Williams College Department of Mathematics and Statistics, Williamstown, MA, 2003.
- Colby College Department of Mathematics and Statistics, Waterville, ME, 2003.
- Georgetown University Department of Biostatistics, Washington, DC, 2003.
- Boston University Veteran's Administration, Bedford, MA, 2004.
- Harvard University Department of Government, Cambridge, MA, 2004
- University of Washington Department of Biostatistics, Seattle, WA, 2004.
- University of Pennsylvania Department of Statistics, Philadelphia, PA, 2004.
- The RAND Corporation, Santa Monica, CA, 2004.
- Mathematica Policy Research, Inc., Washington, DC, 2004.
- Harvard University Department of Biostatistics, Boston, MA, 2004.

Evaluation of a school dropout prevention program: Estimation of causal effects through matching.

- Smith College Department of Mathematics, Northampton, MA, 2005.

Propensity score matching methods for estimating the effect of a school-level intervention.

- Johns Hopkins University Department of Mental Health, Washington, DC, 2006.

Causal Inference in Political Science and Public Policy Research: Matching as Nonparametric Preprocessing for Improving Parametric Causal Inference.

- George Washington University Institute of Public Policy, Washington, DC, 2006.

Propensity score matching with multiple control groups.

- Johns Hopkins University Department of Economics and Department of Biostatistics Causal Inference Workshop, Baltimore, MD, 2006.
- Prevention Science & Methodology Group, 2007.

Defining "baseline" in a propensity score matching analysis: Application to a clinical trial.

- The RAND Corporation, Washington, DC, 2006.

Statistical methods: Focus on experiments and their complications.

- CHIPS Summer Training Institute, Baltimore, MD, 2007.

Propensity scores and matching methods in education research: Designing observational studies.

- U.S. Department of Education, Washington, DC, 2007.

What happens when some of the controls get the treatment? Connections to propensity scores, modeling, and clinical trial simulation.

- U.S. Food and Drug Administration, Rockville, MD, 2007.



Making use of limited resources: Optimal selection of subjects for follow-up.

- Prevention Science & Methodology Group, 2007.
- Prevention Science & Methodology Group biannual conference, Baltimore, MD, 2008.

Propensity score matching methods for examining the relationship between adolescent drug use and adult outcomes.

- The University of Chicago, Department of Health Studies, Chicago, IL, 2007.
- The Methodology Center, The Pennsylvania State University, State College, PA, 2007.
- Initiative in Population Research, Ohio State University, Columbus, OH, 2008.

Principal stratification in experimental and non-experimental studies.

- American Institutes for Research, Washington, DC, 2008.

The use of propensity scores in mental health research.

- Department of Mental Health, BSPH, 2009.

Practical issues in the use of propensity score methods.

- Stat-Epi Group, BSPH, 2009.
- Department of Mathematics and Statistics, University of Maryland Baltimore County, 2009.

The use of propensity scores to assess generalizability.

- BEAR Program, Graduate School of Education, University of California at Berkeley, Berkeley, CA, 2008.
- Biostatistics Division, Department of Psychiatry, Columbia University, 2009.
- Department of Measurement, Statistics, and Evaluation, University of Maryland College of Education, 2010.
- Department of Biostatistics, UCLA, 2010.
- Department of Biostatistics and Epidemiology, McGill University, 2010.
- Prevention Science Methodology Group, 2010.
- Division of Biostatistics, University of Maryland Marlene and Stewart Greenebaum Cancer Center, Department of Epidemiology and Public Health, 2010.
- Institute of Statistics, Ludwig-Maximilians-University, Munich, Germany, 2011.
- Institute of Psychiatry, University of Jena, Germany, 2011.
- Institut für Arbeitsmarkt-und Berufsforschung, Nuremberg, Germany, 2011.

Recent advances in propensity score methods: Estimation and balance checking.

- Welch Center for Prevention, Epidemiology, and Clinical Research, Johns Hopkins Medical Institutions, April 2012.

What propensity scores can and can't do for you

- Prevention Science Methodology Group, 2012.

Assessing the generalizability of randomized trial results in education and public policy.

- National Opinion Research Center (NORC), Bethesda, MD, 2012.
- The Urban Institute, Washington, DC, 2012.
- Northwestern University Institute for Policy Research, Evanston, IL, 2012.
- Harvard University Graduate School of Education, Dean's Distinguished Lecture, Cambridge, MA, 2012.

- Social Experiments in Practice: The why, when, where, and how of experimental design & analysis, Abt Associates 50<sup>th</sup> Anniversary, Washington, DC, 2014. <http://www.appam.org/social-experiments-in-practice-the-why-when-where-and-how-of-experimental-design-analysis/>

Recent advances in propensity score methods: Balance checking and sensitivity analysis

- Abt Associates, Bethesda, MD, 2012
- University of Maryland, Department of Measurement, Statistics, and Evaluation, College Park, MD, 2014

Propensity score methods II: The how (of matching), how well (diagnostics), and what if (complications)?

- Pennsylvania State University IES Training Program Summer Institute, State College, PA, 2013.

Leveraging 'big data' to estimate population treatment effects.

- Curry School of Education, University of Virginia, Dean's Lecture, Charlottesville, VA, 2013.

Propensity score methods for when covariates are measured with error

- Georgetown University Department of Biostatistics, Washington, DC, 2014
- The RAND Corporation, Jointly sponsored by the Statistics group and the Center for Causal Inference, Alexandria, VA, 2014
- DCEG Biostatistics Branch, National Cancer Institute, the National Institutes of Health, 2015

Applying propensity score methods in psychiatry and psychology: Case study of suicide prevention using Danish registry data

- Johns Hopkins Medicine Department of Psychiatry Research Conference, 2014

Panel on patient centered outcomes research

- Johns Hopkins Bloomberg School of Public Health, 2014

The effects of federal parity legislation on mental health service use among children with Autism Spectrum Disorders

- Center for Health Services and Outcomes Research and Wendy Klag Center for Autism and Developmental Disabilities, Johns Hopkins Bloomberg School of Public Health, 2015

PCORI and the Clinical Trials Advisory Panel: Perspectives from Year 1

- Prevention Science Methodology Group, 2015
- Center for Clinical Trials, Johns Hopkins University, 2015

The use of big data to assess and enhance external validity

- McCourt School of Public Policy, Initiative in Big Data, Georgetown University, 2015
- Interdisciplinary Seminar in Quantitative Methods, University of Michigan, 2015
- Department of Biostatistics, Institute of Psychiatry, King's College London, 2015
- Penn State University, Prevention Research Center and Methodology Center joint seminar series, 2016

- University of North Carolina at Chapel Hill, Causal Inference Working Group, December 2016
- Department of Statistics, University of Pennsylvania Wharton School of Business, December 2016

Using propensity scores with complex survey data

- National Center for Health Statistics, Hyattsville, MD, 2015
- Westat, Rockville, MD, 2015

Confronting unobserved confounding by using sensitivity analyses in non-experimental studies in education and health policy

- Mathematica Policy Research, Inc., Washington, DC, 2015

Using administrative data to estimate causal effects

- The Health Foundation, London, England, 2015

Using synthetic control groups to estimate the effects of policy changes

- Mathematica Policy Research, Inc., Washington, DC, 2015

Why should we care about who enrolls in a randomized trial? Assessing and enhancing the generalizability of trials to target populations

- Johns Hopkins Medicine Department of Psychiatry Research Conference, October, 2016

Assessing and enhancing the generalizability of randomized trials to target populations

- Dartmouth College, Hanover, NH, October 2016
- Harvard University Institute for Quantitative Social Science, Cambridge, MA, March 2017
- Melbourne School of Population and Global Health, Melbourne, Australia, November 2017

External validity and the generalizability of randomized trial results to target populations

- Dartmouth College, Hanover, NH, October 2016
- University of Michigan Department of Biostatistics, Ann Arbor, MI, April 2018
- Harvard University Department of Biostatistics, Boston, MA, September 2018
- Vanderbilt University Department of Biostatistics, Nashville, TN, October 2018
- Facebook, San Jose, CA, April 2019
- Columbia University Department of Biostatistics, New York, NY, May 2019
- American University Department of Mathematics and Statistics, Washington, DC, October 2019
- Yale University Department of Biostatistics, virtual, September 2020
- University of Wisconsin Department of Biostatistics, virtual, October 2020
- Mental Health Research Network Methods Special Interest Group, virtual, October 2020
- University of California – San Diego School of Public Health Grand Rounds, virtual, May 2021
- Indiana University School of Public Health, virtual, April 2022

Propensity score methods in the context of covariate measurement error

- School of Public Health & Preventive Medicine, Monash University, Melbourne, Australia, November 2017

Moderator, Conventions for handling incomplete/missing data

- Mini-symposium series in HIV methods @ JHU, Baltimore, MD, November 2017

Introduction to propensity score methods

- National Cancer Institute, April 2018
- American Association for Public Opinion Research, webinar, virtual, April 2022

The opportunities, and challenges, in policy evaluation during the COVID-19 pandemic

- Brown University Data Science Institute Decoding Pandemic Data seminar, virtual, October 2020
- London School of Economics Department of Statistics, virtual, February 2021

Measuring population-level mental health during the COVID-19 pandemic

- Oxford University Center for Evidence-Based Intervention, Department of Social Policy and Intervention, Effects of COVID-19 on social and behavioral outcomes seminar series, virtual, October 2020

The role of data science in policy evaluation during the COVID-19 pandemic

- International Program in Survey and Data Science, CONNECT Annual Meeting, virtual, June 2021
- Harvard Data Science Initiative, virtual, October 2021
- University of North Carolina, Chapel Hill, Causal Inference Working Group, virtual, March 2022
- University of Washington Center for Statistics and the Social Sciences, Seattle, WA, March 2022

Policy evaluation in the real world

- International Conference on Health Policy Statistics, Scottsdale, AZ, January 2023

Challenges to statistical approaches for health equity

- Data Science for Health Equity, Genomics England, and the Alan Turing Institute, virtual, January 2023

The best (and worst?) of both worlds: Combining randomized trial and electronic health record data to examine treatment effect heterogeneity

- Harvard/Karolinska CAUSALab, virtual, April 2023
- Department of Statistics, University College London, virtual, May 2023

## **ADDITIONAL INFORMATION**

### *Personal statement of research and research objectives*

Trained as a statistician, my primary research interests are in the development and use of methodology to better design and analyze the causal effects of public health and educational interventions. In this way I hope to bridge statistical advances and research practice, working with mental health and educational researchers to identify and solve methodological challenges.

I am particularly interested in the trade-offs in different designs for estimating causal effects, especially in terms of improving internal validity of non-experimental studies and external validity

of randomized studies. This translates into two primary research areas. First, one of my primary research areas is in the use of propensity score methods for estimating causal effects in non-experimental studies (essentially as a tool to improve internal validity and reduce confounding). My interests in this area include providing advice for researchers in terms of best practice for estimation, diagnostics, and use of propensity score methods. This also includes investigation of how to handle complexities in propensity score methods, including multilevel data settings, covariate measurement error, and complex survey data. My second primary research area is in methods to assess and enhance the external validity (generalizability) of randomized trial results and enable policymakers to determine how applicable the results of a particular randomized study are to their own target population. I also have interests in policy evaluation using large-scale data sources.

*Keywords*

Bayesian modeling, biostatistics, causal inference, external validity, generalizability, multi-level modeling, observational study, prevention research, propensity scores