

CURRICULUM VITAE

Elizabeth A. Stuart

**PERSONAL DATA**

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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**

- 2020- Bloomberg Professor of American Health
- 2016- Associate Dean for Education
- 2015- Professor  
Johns Hopkins Bloomberg School of Public Health  
Department of Mental Health (primary)  
Department of Biostatistics (joint)  
Department of Health Policy and Management (joint)  
  
Co-Director, JHSPH Center for Mental Health and Addiction Policy Research  
Core Faculty, Bloomberg American Health Initiative  
Associate Director for Statistical Methods, JHSPH Wendy Klag Center for Autism & Developmental Disabilities
- 2011-2015 Associate Professor  
Johns Hopkins Bloomberg School of Public Health
- 2011. Assistant Professor  
Johns Hopkins Bloomberg School of Public Health
- 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
- 2004. Research Assistant for Professor Gary King  
Department of Government, Harvard University
- 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 and Conference Organization*

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 - present

Task Force on Scholarship of Teaching and Learning, 2018 - present

American Statistical Association, 2001-present

Founding Member, Mental Health Statistics Section

Co-Director, Charter Workgroup, 2011

Member, Liaison Committee, 2012 -

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

Session Chair, Joint Statistical Meetings, 2001-2016

Invited Session Organizer, Joint Statistical Meetings, 2007, 2010

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  
 Invited Session Organizer, 2011, 2013, 2017, 2019  
 Third Annual Thomas R. Ten Have Symposium on Statistics in Mental Health  
 Organizing Committee, 2013  
 Society for Epidemiologic Research  
 Member, Education Committee, 2018-  
 Society for Prevention Research  
 Member, Innovative Methods Theme Committee, 2009-2011  
 Annual Meeting Program Committee, 2009  
 Session Organizer, 2008, 2010  
 Society for Research on Educational Effectiveness, 2011 – present  
 Board member, 2017 -  
 Annual Meeting Abstract Reviewer, 2011, 2013  
 Pre-conference workshop presenter, Fall 2011  
 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  
 Co-organizer, Prevention Science & Methodology Group biannual meeting, 2008  
 Organizer, Atlantic Causal Inference Conference, 2008, 2012  
 American Public Health Association, 2007-2009  
 Institute of Mathematical Statistics, 2001-2008

*Participation on National and International Advisory Panels*

2020-2023 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 National Academy of Sciences Engineering and Medicine, Panel to assess the long-term impacts of antimalarials  
 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 National Academy of Sciences Panel on Research Methodologies and Statistical Approaches to Understanding Driver Fatigue Factors in Motor Carrier Safety and Driver Health (Committee Code: ZZ134455)

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*

Johns Hopkins Center for Gun Policy and Research (Affiliate, 2019 - )  
Bloomberg American Health Initiative (Evidence workgroup lead, 2016-2019)  
Lerner Center for Public Health Promotion (Special Advisor, 2018 - )  
Hopkins Population Center (Faculty Associate and Coordinating Committee, 2015- )  
JHSPH Center for Mental Health and Addiction Policy Research (co-Director, 2014- )  
Mannheim Center for European Social Research, University of Mannheim (External Fellow, 2014-)  
JHSPH Wendy Klag Center for Autism & Developmental Disabilities (Associate Director; 2013-)  
JHSPH Center for Prevention and Early Intervention (Methods Core Co-Director, 2006 - 2014)  
JHU Institute for Data Intensive Engineering and Science (IDIES; Affiliate Member, 2013 - )  
JHSPH Center for Drug Safety and Effectiveness (Core Faculty; 2012 - )  
JHSPH Center for the Prevention of Youth Violence (2006 - )  
JHSPH Psychiatric Epidemiology Training Program (Core Faculty; 2012 - )  
JHSPH 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)  
JHSPH 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 ACTIVITIES**

### *Editorial Boards*

2009 - 2012 Associate Editor, *Journal of the Royal Statistical Society, Series A*  
2011 – 2016 Associate Editor, *The Journal of Causal Inference*  
2012 - Associate Editor, *Sociological Methods and Research*  
2012 - 2016 Associate Editor, *Statistics in Medicine*  
2013 - 2014 Associate Editor, *Journal of Educational and Behavioral Statistics*  
2014 - 2019 Management Committee, *Journal of Educational and Behavioral Statistics*  
2013 - 2015 Associate Editor, *Journal of Research on Educational Effectiveness*  
2014 - 2016 Associate Editor, *Journal of the American Statistical Association, Reviews*  
2014 - Associate Editor, *Observational Studies*  
2015 - 2019 Associate Editor, *Psychometrika*  
2015 - 2019 Methods Editor, *Journal of Research on Educational Effectiveness*  
2018 - Associate Editor, *Journal of the American Statistical Association Theory & Methods*  
2018 - Statistical Reviewer, *JAMA Psychiatry*  
2018 - Associate Editor, *American Journal of Political Science*

*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

*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

*Grant Review Panel Member*

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)

## HONORS AND AWARDS

### *Honors*

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*

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 JHSPH AMTRA Advising, Mentoring, and Teaching Recognition Award  
2010 JHSPH Golden Apple award for Excellence in Teaching  
2010 JHSPH AMTRA Advising, Mentoring, and Teaching Recognition Award  
2010-2020 JHSPH 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*

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



2013 in New England Conference, Smith College  
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. Hologue, C., Badillo-Goicoechea, E., \*\*Riehm, K.E., Veldhuis, C., Thrul, J., Johnson, R.M., Fallin, D.M., Kreuter, F., **Stuart, E.A.**, and Kalb, L.G. (2020). Mental Distress during the COVID-19 Pandemic among US Adults without a Pre-existing Mental Health Condition: Findings from American Trend Panel Survey. Forthcoming in *Preventive Medicine*. Available online 3 August 2020. <https://doi.org/10.1016/j.ypmed.2020.106231>
2. \*\*Feder, K.A., Ali, M.A., Sherman, L., Letourneau, E.J., Barry, C.L., **Stuart, E.A.**, and Mutter, R. (in press) Elevated Prevalence of Antisocial Behavior in Adolescent Children Whose Mothers use Opioids. Forthcoming in *Drug and Alcohol Dependence*.
3. French, B., and **Stuart, E.A.** (in press). Study designs and statistical methods for studies of child and adolescent health policies. Forthcoming in *JAMA Pediatrics*.
4. \*\*Riehm, K., \*\*Hologue, C., Thrul, J., Fallin, M.D., Kapteyn, A., Bennett, D., Johnson, R., Veldhuis, C., Jiang, Q., **Stuart, E.A.**, Kreuter, F., and Kalb, L. (in press). Associations between media exposure and mental distress among U.S. adults at the beginning of the COVID-19 pandemic. Forthcoming in *American Journal of Preventive Medicine*. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7351429/>
5. Schuler, M.S., Heins, S.E., Smart, R., Griffin, B.A., Powell, D., **Stuart, E.A.**, Pardo, B., Smucker, S., Patrick, S., Pacula, R.L., and Stein, B.D. (2020). The state of the science in opioid policy research. *Drug & Alcohol Dependence*. <https://doi.org/10.1016/j.drugalcdep.2020.108137>
6. Dong, N., \*\*Lenis, D., Nguyen, T., and **Stuart, E.A.** (2020). Using Propensity Score Analysis of Survey Data to Estimate Population Average Treatment Effects: A Case Study Comparing Different Methods. *Evaluation Review*. <https://doi.org/10.1177/0193841X2093849>
7. McCourt, A., Crifasi, C., Wintemute, G., Kagawa, R., Vernick, J., **Stuart, E.A.**, and Webster, D. (in press). Effects of Purchaser Licensing and Point-of-Sale Background Check Laws on Firearm Homicide and Suicide in Four States. Forthcoming in *American Journal of Public Health*.
8. Kreuter, F., Barkay, N., Bilinski, A., Bradford, A., Chiu, S., Eliat, R., Fan, J., Galili, T., Haimovich, D., Kim, B., LaRocca, S., Li, Y., Morris, K., Presser, S., Sarig, T., Salomon, J.A., Stewart, K., **Stuart, E.A.**, and Tibshirani, R. (2020). Partnering with a global platform to

inform research and public policy making. *Survey Research Methods : Journal of the European Survey Research Association* 14(2) : Survey Research Methods during the COVID-19 crisis : 159-163.

9. Nguyen, T.Q., \*\*Schmid, I., and **Stuart, E.A.** (in press). Clarifying causal mediation analysis for the applied researcher: Defining effects based on what we want to learn. Forthcoming in *Psychological Methods*.
10. Dahabreh, I., Haneuse, S., Robins, J., Robertson, S., Buchanan, A., **Stuart, E.A.**, and Hernan, M. (in press). Study designs for extending causal inferences from a randomized trial to a target population. Forthcoming in *American Journal of Epidemiology*.
11. Rudolph, K.E., Goin, D., and **Stuart, E.A.** (in press). The peril of power: a tutorial on using simulation to better understand when and how we can estimate mediating effects. Forthcoming in *American Journal of Epidemiology*. Published online May 16, 2020. <https://doi.org/10.1093/aje/kwaa083>
12. \*\*Schmid, I., Rudolph, K.E., Nguyen, T.Q., Hong, H., Seamans, M.J., \*\*Ackerman, B., **Stuart, E.A.** (in press). Comparing the performance of statistical methods that generalize effect estimates from randomized controlled trials to much larger target populations. Forthcoming in *Communications in Statistics – Simulation and Computation*. Published online March 18, 2020. <https://doi.org/10.1080/03610918.2020.1741621>
13. Rathbun, A., Hochberg, M., Schuler, M.S., **Stuart, E.A.**, Gallo, J., Shardell, M., Yau, M., and Ryan, A. (2020). Association between Disease Progression and Depression Onset in Persons with Radiographic Knee Osteoarthritis. *Rheumatology* keaa141. Published online April 24, 2020. <https://doi.org/10.1093/rheumatology/keaa141>
14. Tamma, P., Amoah, J., **Stuart, E.A.**, Harris, A., Cosgrove, S., and Lautenbach, E. (in press). Comparing Propensity Score Methods versus Traditional Regression Analysis for the Evaluation of Observational Data: A Case Study Evaluating the Treatment of Gram-Negative Bloodstream Infections. Forthcoming in *Clinical Infectious Diseases*. Published online February 18, 2020. <https://doi.org/10.1093/cid/ciaa169>
15. Nguyen, T.Q., and **Stuart, E.A.** (2020). Propensity score analysis with latent covariates: Measurement error bias correction using the covariate's posterior mean, aka the inclusive factor score. *Journal of Educational and Behavioral Statistics*. Published online April 8, 2020. <https://doi.org/10.3102/1076998620911920>
- 16.
17. McGinty, E.E., Stone, E.M., Kennedy-Hendricks, A., Bandara, S., Murphy, K.A., Stuart, E.A., Rosenblum, M.A., and Daumit, G.L. (in press). Effects of Maryland's Affordable Care Act Medicaid Health Home Waiver on Quality of Cardiovascular Care among People with Serious Mental Illness. Forthcoming in *Journal of General Internal Medicine*. Published online March 3, 2020. <https://doi.org/10.1007/s11606-020-05690-9>
18. Flores, J., Swartz, K., **Stuart, E.A.**, and Wilcox, H. (2020). Co-occurring risk factors among US high school students at risk for suicidal thoughts and behaviors. *Journal of Affective Disorders*. 2020 ; 266 : 743-752. <https://doi.org/10.1016/j.jad.2020.01.177>

19. Krawczyk, N., Mojtabei, R.M., **Stuart, E.A.**, Fingerhood, M., Agus, D., Lyons, B.C., Weiner, J., and Saloner, B. (in press). Opioid agonist treatment and fatal overdose risk in a statewide U.S. population receiving opioid use disorder services. Forthcoming in *Addiction*. Published online February 24, 2020. <https://doi.org/10.1111/add.14991>
20. Rudolph, K.E., Ahern, J., Stiles, J.L., Schmidt, N., and **Stuart, E.A.** (in press). Using transportability to understand differences in mediation mechanisms across trial sites: applying a novel estimation approach to a large-scale housing voucher experiment. Forthcoming in *Epidemiology*.
21. Bandara, S.N., Kennedy-Hendricks, A., **Stuart, E.A.**, Barry, C.L., Abrams, M.T., Daumit, G.L., and McGinty, E.E. (2020). The Effects of the Maryland Medicaid Health Home Waiver on Emergency Department and Inpatient Utilization Among Individuals with Serious Mental Illness. *General Hospital Psychiatry*. 2020; 64 : 99-104. <https://doi.org/10.1016/j.genhosppsych.2019.12.004>
22. Webster, D., McCourt, A., Crifasi, C., Booty, M., and **Stuart, E.A.** (2020). Evidence Concerning the Regulation of Firearms Design, Sale, and Carrying on Fatal Mass Shootings in the United States. *Criminology & Public Policy*. 19:1:171-212. <https://doi.org/10.1111/1745-9133.12487>
23. Murphy, K.A., Daumit, G.L., Bandara, S.N., Stone, E.M., Kennedy-Hendricks, A., **Stuart, E.A.**, Pollack, C.E., and McGinty, E.E. (in press). Effect of the Maryland Medicaid Behavioral Health Home Program on Cancer Screening in People with Serious Mental Illness. Forthcoming in *Psychiatric Services*. Published online: February 5, 2020. <https://doi.org/10.1176/appi.ps.201900299>
24. Mendelson, T., Clary, L., Sibinga, E., Tandon, S.D., Musci, R., Mmari, K., Salkever, D., **Stuart, E.A.**, and Jalongo, N. (2020). A randomized controlled trial of a trauma-informed school prevention program for urban youth: Rationale, design, and methods. *Contemporary Clinical Trials* 90: 105895. <https://doi.org/10.1016/j.cct.2019.105895>
25. Dahabreh, I., Hernan, M., Robertson, S., Steingrimsson, J., and **Stuart, E.A.** (2020). Extending inferences from a randomized trial to a new target population. *Statistics in Medicine*. 39:14:1999-2014. <https://doi.org/10.1002/sim.8426>
26. Heyward, J., Olson, L., Sharfstein, J.M., **Stuart, E.A.**, Lurie, P., and Alexander, C.G. (2019). Evaluation of the Extended Release/Long Acting (ER/LA) Opioid Prescribing Risk Evaluation and Mitigation Strategy Program by the U.S. Food and Drug Administration: A Review. *JAMA Internal Medicine*. Published online December 30, 2019. <https://pubmed.ncbi.nlm.nih.gov/31886822/>
27. \*\*Cowling, K., **Stuart, E.A.**, Neff, R.A., Vernick, J., Magraw, D, and Pollack Porter, K. (2020). The relationship between joining a U.S. free trade agreement (FTA) and processed food sales, 2002-2016: a comparative interrupted time-series analysis. *Public Health Nutrition*. 23:9:1609-1617. <https://doi.org/10.1017/S1368980019003999>

28. \*\*Parekh, J., **Stuart, E.A.**, Blum, R., Caldas, V., Whitfield, B., Jennings, J.M. (2019). Addressing the adherence-adaptation debate : Lessons from the replication of an evidence-based sexual health program in school settings. *Prevention Science*. 20(7):1074-1088. <https://doi.org/10.1007/s11121-019-01032-2>
29. \*\*Feder, K., Mojtabei, R., Musci, R., **Stuart, E.A.**, and Letourneau, E. (2020). Florida's Opioid Crackdown and Mortality From Drug Overdose, Motor Vehicle Crashes, and Suicide: A Bayesian Interrupted Time-Series Analysis, *American Journal of Epidemiology*.
30. Sharifi, V., Shahrivar, Z., Zarafshan, H., Ashkezary, S.B., **Stuart, E.**, Mojtabei, R., and Wissow, L. (2019). Collaborative care for child and youth mental health problems in a middle-income country: study protocol for a randomized controlled trial training general practitioners. *Trials* 20: 405. <https://www.ncbi.nlm.nih.gov/pubmed/31287011>
31. \*\*Knapp, E., **Stuart, E.A.**, Wilson, R., Zhang, A., Tseng, E., Cheskin, L., Bass, E., Kharrazi, H., and Bennett, W. Methods and risks of bias in natural experiments in obesity: Opportunities for the future informed by a systematic review (2019). *Obesity*. 27(12):1950-1957. <https://doi.org/10.1002/oby.22645>
32. \*\*Shelley, K., Peters, D., Baqui, A., **Stuart, E.A.**, Mpembeni, R., Frumence, G., and Killewo, J. (in press). Integrating community health work roles to improve facility delivery utilization in Tanzania – evidence from an interrupted time series analysis. *Maternal and Child Health Journal*. <https://www.ncbi.nlm.nih.gov/pubmed/31228143>
33. Mayo-Wilson E\*, Fusco N\*, Li T, Hong H, Canner JK, Dickersin K for the MUDS investigators (2019). Harms are assessed inconsistently and reported inadequately Part 1: Systematic adverse events. *Journal of Clinical Epidemiology* 113: 20-27. PMID: 31055175 DOI: 10.1016/j.jclinepi.2019.04.022 <https://doi.org/10.1016/j.jclinepi.2019.04.022>
34. Mayo-Wilson E\*, Fusco N\*, Li T, Hong H, Canner JK, Dickersin K for the MUDS investigators (2019). Harms are assessed inconsistently and reported inadequately Part 2: Non-systematic adverse events. *Journal of Clinical Epidemiology* 113: 11-19. PMID: 31055176 DOI: 10.1016/j.jclinepi.2019.04.020 <https://doi.org/10.1016/j.jclinepi.2019.04.020>
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**Articles and Editorials not peer reviewed**



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### **Chapters**

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### **Practice-Related Reports**

1. 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.

2. 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).
3. 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 2020. [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)
4. 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.
5. 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)
6. 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>
7. 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>
8. 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/utills/getfile/collection/feddocs/id/524/filename/525.pdf>.
9. Torgesen, J., Myers, D., Schirm, A., **Stuart, E.**, Vartivarian, S., Mansfield, W., Borhnstedt, G., Stancavage, F., Durno, D., Javorsky, R., and Haan, C. (2006). *Closing the reading gap: First-year findings from a randomized trial of four reading interventions for striving readers*. Report submitted to Congress by the Department of Education, Institute of Education Sciences. Washington, DC: Mathematica Policy Research, Inc. <http://eric.ed.gov/?id=ED491144>.
10. **Stuart, E.**, Olsen, R., Schirm, A., Young, J., and DesRoches, D. (2006). *The impacts of regular Upward Bound on postsecondary educational activities within 4-6 years after*

*scheduled high school graduation*. Draft report submitted to the U.S. Department of Education, Policy and Program Studies Service. Washington, DC: Mathematica Policy Research, Inc.

11. Schirm, A., **Stuart, E.**, and McKie, A. (2006). *The Quantum Opportunity Program Demonstration: Final Impacts*. Report submitted to the U.S. Department of Labor, Employment and Training Administration. Washington, DC: Mathematica Policy Research, Inc. <http://files.eric.ed.gov/fulltext/ED498110.pdf>.
12. Stuart, E.A. (2005). *Estimating school-level causal effects using school-level data sets*. Paper for National Academy of Sciences Board on Testing and Assessment's Symposium on the use of school-level data. Washington, DC: National Academy of Sciences. <http://edr.sagepub.com/content/36/4/187.short>.
13. \***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.

## **PRACTICE ACTIVITIES**

### ***Popular media***

1. Althoff, K., and **Stuart, E.A.** (2020). Re-opening: How families can reassess. Published 11 June 2020. <https://www.jhsph.edu/covid-19/articles/re-opening-how-families-can-reassess.html>
2. **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.jhsph.edu/covid-19/articles/10-tips-for-making-sense-of-covid-19-models-for-decision-making.html>
3. **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/>

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

14. "The Quantum Opportunity Program Demonstration: Final Impacts." Briefing for Deputy Assistant Secretary, U.S. Department of Labor, Washington, DC, 2006.
15. "The Individual Training Accounts Experiment: What Did We Learn?" Briefing for Deputy Assistant Secretary, U.S. Department of Labor, Washington, DC, 2006.
16. "Power analysis for the behavioral sciences". Administration for Children and Families, U.S. Department of Health and Human Services, March 2009.
17. "Introduction to Statistics". State of Delaware Psychiatry Residency Program, March 2009
18. "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).

19. "The loss of external validity in program evaluations that select sites purposively." Institute of Education Sciences Speaker Series, Washington, DC, 2011.
20. "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.
21. "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
22. "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.
23. "Propensity score methods with complex survey data." Invited lecture at the National Center for Health Statistics, Hyattsville, MD, 2015.
24. "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.
25. "Propensity score methods." Invited lecture in the Division of Cancer Control and Prevention Sciences, National Cancer Institute, Bethesda, MD, July 2016.
26. "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.
27. "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.
28. "Advanced methods for non-experimental studies." One-day short course at National Center for Education Statistics, US Department of Education, January 2018.
29. 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.
30. "Designs for evidence-based policymaking." Presentation to the Lab@DC. Washington, DC, January 2019.
31. "Propensity score methods for non-experimental studies." Short course for Summer at Census. US Census Bureau. Suitland, MD, July 2019.

### ***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)]

## CURRICULUM VITAE

Elizabeth A. Stuart

### PART II

#### TEACHING

##### *Advisees*

- Valerie Harder                      PhD, Mental Health                      2008  
Cannabis use and depression: Demystifying propensity score techniques  
Current Position: Assistant Professor, Department of Psychiatry, University of Vermont
- Satoko (Janet) Kuramoto      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 Science Analyst, Center for Behavioral Health Statistics and  
Quality, Substance Abuse and Mental Health Services Administration
- Finbarr Leacy                      ScM, Biostatistics                      2012  
On the Joint Use of Propensity and Prognosis Scores in Causal Treatment Effect  
Estimation  
Current Position: StAR Research Lecturer in Biostatistics, RCSI Population Health  
Sciences, Royal College of Surgeons in Ireland
- 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: 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, University of California - Davis  
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: Behavioral Health and Quality Research, Truven Health Analytics

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: Statistician, Genentech

David Lenis    PhD, Biostatistics                                  2017  
Current Position: Statistician, Flatiron Health

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 JHSPH

Adam Pittman    ScM, Biostatistics                                  2019

Benjamin Ackerman                                  PhD, Biostatistics                                  2020  
Methods for transportability: Addressing external validity and measurement error  
concerns in randomized trials  
Current Position: Statistician, Flatiron Health

Curtis Leung    DrPH Candidate,  
Health Policy and Management

Lucy Qiao    MHS, Biostatistics  
(Concurrent with PhD in Epidemiology)

*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  
Current position: Assistant Professor, Department of Epidemiology, University of  
California – Los Angeles

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

Stephanie Moore 2018- present  
 Funded through NIMH T32 on Mental Health Services and Systems

Youjin Lee 2019  
 Current position: Post-doctoral fellow, University of Pennsylvania Center for Causal  
 Inference

*MPH Advisees*

Sushant Sahastrabuddhe 2009-2010  
 Pamela Trangenstein 2012-2014

*MPH Capstone Advisee*

Siva Mulpuru 2020  
 Ahmed Hassan 2016  
 Haley Gibbs 2015  
 Sushant Sahastrabuddhe 2010

*Master's Thesis Reader*

Keri Calkins, Epidemiology 2014  
 Lu Shen, Biostatistics 2014  
 Katherine Freeland, Biostatistics 2015

*Preliminary Oral Participation (PhD or DrPH)*

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
Sherry-Chanelle Breighthaupf	Mental Health	2019
Debra Bozzi	Health Policy and Management	2019

Trang Nguyen	Biostatistics	2020
Kayte Andersen	Epidemiology	2020
<i>Final Oral Participation (PhD or DrPH)</i>		
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
Nkemdiri 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

### *Training Grant Mentorship*

Co-Sponsor, PI: Kira Riehm (JHSPH)

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 (JHSPH)

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 (JHSPH)

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

Co-Sponsor, PI: Geoff Kahn (JHSPH)

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 (JHSPH)

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 (JHSPH)

K99 award, National Institute of Mental Health (K99MH111807)

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

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

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 - 2016	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
<b>Guest Lectures</b>		
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 JHSPH Epidemiology 340.863.01	
2008-2011	Seminars on Methods in Public Mental Health Research (P. Leaf) JHSPH Mental Health 330.660.01	
2006-	Prevention of Mental Disorders: Public Health Interventions (N. Ialongo and G. Rebok) JHSPH Mental Health 330.607.01	
2007-2010	Methodologic Challenges in Epidemiologic Research (D. Fallin, T. Glass, S. Cole) JHSPH Epidemiology 340.754.01	
<b>Other institutions</b>		
2006	Causal Inference in Randomized Experiments and Observational Studies Joint Program in Survey Methodology, University of Maryland	
<b>Other Teaching</b>		
"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”

JHSPH 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

## RESEARCH GRANT PARTICIPATION

*Principal Investigator*

<u>Title</u>	<u>Agency</u>	<u>Level</u>	<u>Budget Amount</u>
Data integration for causal inference In behavioral health (7/1/2020-6/30/2025)	NIMH	NA	\$1,217,290

T32MH122357

RAPID: Evaluating the impact of COVID-19 on labor market, social, and mental health outcomes (2028683) co-PI's: Bennett (USC), de Bruin (USC), Krueter (Maryland), Stuart (JHSPH), Thru (JHSPH)	NSF	1%	\$200,000
How much can national studies improve local policy decisions that affect youth?	WT Grant Fnd.	10%	\$595,785
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 (co-PI with Nianbo Dong; 7/2015-6/2018) (R305D150001)	IES	15%	\$798,022
Statistical methods for using rigorous evaluation results to improve local education policy decisions (co-PI with Robert Olsen; 7/2015-6/2018) (R305D150003)	IES	15%	\$896,361
Enhancing external validity in existing STEM evaluations (co-PI with Robert Olsen; 10/2013-9/2016) (DRL-1335843)	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)	JHSPH Faculty Innovations Fund	20%	\$29,557



Using administrative records to predict Census day residency (completed)	U.S. Census Bureau	10%	\$210,000
<i>Co-investigator</i>			
<u>Title</u> State Medical Cannabis Laws, Chronic Pain, and Opioids: A Mixed-Methods Approach	<u>Grant Number</u> R01DA049789	<u>PI</u> McGinty	<u>Agency</u> NIDA
Using licensure authority to increase access to medications for opioid use disorder in specialty treatment		Saloner	Arnold Ventures
Bloomberg Opioid Initiative (Evaluation core co-lead)		Sharfstein	Bloomberg Philanthropies
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	Unassigned	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		Bradshaw	IES
Supporting New Teachers Use of Effective		Bradshaw	IES

Classroom Management Techniques (JHSPH PI: lalongo)			
Feasibility of Web-Based Coach Training to Support Classroom Prevention Programs		lalongo	NIDA
Center for Prevention and Early Intervention		lalongo	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		Steinwachs	NIMH
Community violence & youth: Affect, behavior, academics (completed)		Cooley	NIDA
Center for the Prevention of Youth Violence		Leaf	CDC
Enhancing Safe Sleep Practices among Urban, Low-Income Mothers		Gielen	NICHD
Substance use disorder treatment under new payment and delivery system models	R01DA035214	Huskamp, Barry	NIDA
Implementation of Federal Mental Health Parity	R01MH093414	Barry	NIMH

## **ACADEMIC SERVICE**

### *Johns Hopkins Bloomberg School of Public Health*

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  
 Department of Mental Health Academic Excellence 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*

JHU Student Services Excellence Initiative Governing Council, 2020 -  
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.

Reweight 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, JHSPH, Baltimore, MD, February 2016
- Ross-Royall Symposium on population inference, JHSPH, 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

*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

### 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, JHSPH, 2009.

Practical issues in the use of propensity score methods.

- Stat-Epi Group, JHSPH, 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

#### 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

## **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 handling complexities in randomized experiments, in particular missing data and non-compliance.

The applied areas I focus on include violence, autism, the long-term consequences of adolescent substance abuse, education, mental health services and systems, and the effects of health care reform models on mental health service use.

### *Keywords*

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