CURRICULUM VITAE

Elizabeth A. Stuart

PERSONAL DATA

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Baltimore, MD 21205   www.biostat.jhsph.edu/~estuart

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

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) Evidence workgroup lead, Bloomberg American Health Initiative Co-Director, JHSPH Center for Mental Health and Addiction Policy Research 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
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
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

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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
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)

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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)
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

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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

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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 -   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.*

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1997	AB Magna cum laude, Smith College
1997	Phi Beta Kappa

Awards

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
2010-2015	JHSPH Recognition for Excellence in Teaching (based on course reviews; for 2 courses: 140.664, 330.805, 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

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. Alexander, G.C., **Stuart, E.A.**, and Sharfstein, J. (in press). Oversight of Extended Release/ Long Acting (ER/LA) Opioid Prescribing by the U.S. Food and Drug Administration: A Narrative Review. Forthcoming in *JAMA Internal Medicine.*

2. **Cowling, K., Vernick, J., Pollack Porter, K., Stuart, E.A.,** and Magraw, D. (in press). The relationship between joining a U.S. free trade agreement (FTA) and processed food sales, 2002-2016: a comparative interrupted time-series analysis. Forthcoming in *Public Health Nutrition.*

3. **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.* Published online 8 August 2019.

4. **Feder, K., Mojtabai, R., Musci, R., Stuart, E.A.,** and Letourneau, E. (in press). Florida's Opioid Crackdown and Drug, Motor Vehicle Crash, and Suicide Mortality: A Bayesian Interrupted Time-Series Analysis. Forthcoming in *American Journal of Epidemiology.*

5. Sharifi, V., Shahrivar, Z., Zarafshan, H., Ashkezary, S.B., **Stuart, E.,** Mojtabai, 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

6. **Knapp, E., Stuart, E.A.,** Wilson, R., Zhang, A., Tseng, E., Cheskin, L., Bass, E., Kharrazi, H., and Bennett, W. (in press). Methods and risks of bias in natural experiments in obesity: Opportunities for the future informed by a systematic review. Forthcoming in *Obesity.*

7. **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

8. 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

9. 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

10. Samples H, **Stuart EA,** Saloner B, Barry CL, Mojtabai R. (in press). The Role of Screening in Depression Diagnosis and Treatment in a Representative Sample of U.S. Primary Care Visits. Forthcoming in *J Gen Intern Med*. https://www.ncbi.nlm.nih.gov/pubmed/31388917

11. Orr, L.L., Olsen, R.B., Schmid, I., Shivji, A., Bell, S., and **Stuart, E.A.** (2019). Using the results from rigorous multi-site evaluations to inform local policy decisions. *Journal of Policy Analysis and Management.* Published online 7 June 2019. https://doi.org/10.1002/pam.22154

12. Rathbun, A., Schuler, M.S., **Stuart, E.A.,** Shardell, M.D., Yau, M.S., Gallo, J.J., Ryan, A.S., and Hochberg, M.C. (2019). Depression Subtypes in Persons with or at Risk for

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Symptomatic Knee Osteoarthritis. *Arthritis Care & Research.* Published online 2019 Apr 5. https://www.ncbi.nlm.nih.gov/pubmed/30951261.

13. Li, P., and **Stuart, E.A.** (2019). Best (but oft-forgotten) practices: Missing data methods in randomized controlled nutrition trials. *The American Journal of Clinical Nutrition* nqy271. Published online 22 February 2019. https://doi.org/10.1093/ajcn/nqy271

14. Samples, H., **Stuart, E.A.**, and Olfson, M. (2019). Opioid Use, Misuse, and Suicidal Behaviors in a Nationally Representative Sample of U.S. Adults. *American Journal of Epidemiology* 188(7): 1245-1253*.* https://www.ncbi.nlm.nih.gov/pubmed/30834448

15. Siddique, J., Daniels, M., Carroll, R., Trivellore, R., and **Stuart, E.A**. Measurement error correction and sensitivity analysis in longitudinal dietary intervention studies using an external validation study. *Biometrics.* Published online 2019 Apr 6. https://doi.org/10.1111/biom.13044

16. Goldstein, BA, Phelan, M, Pagidipati, NJ, Holman, RR., Pencina, MJ, and **Stuart, EA**. (2019). An Outcome Model Approach to Transporting a Randomized Controlled Trial Results to a Target Population. *Journal of the American Medical Informatics Association*. Published online 14 March 2019. https://doi.org/10.1093/jamia/ocy188

17. Nguyen, T. Q., Ackerman, B., Schmid, I., Cole, S., **Stuart, E.A**. Sensitivity analyses for effect modifiers not observed in the target population when generalizing treatment effects from a randomized controlled trial: Assumptions, models, effect scales, data scenarios, and implementation details. *PLoS ONE 13(12): e0208795.* https://doi.org/10.1371/journal.pone.0208795

18. Rosenblum, M., Miller, P., Reist, B.M., **Stuart, E.A**., Thieme, M.T., and Louis, T.A. (2019). Adaptive Design in Surveys and Clinical Trials: Similarities, Differences, and Opportunities for Cross-Fertilization. *Journal of the Royal Statistical Society – Series C* 182(3): 963-982*.* https://doi.org/10.1111/rssa.12438

19. Resnick, B., Sharfstein, J.M., Morlock, L., Stuart, E.A., Spencer, M., and Diener-West, M. (2019). PH WINS and the future of public health education. *Journal of Public Health Management and Practice* 25: S10-S12*.* https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6519884/

20. **Ackerman, B., Nguyen, T., Cole, S., Seamans, M., and **Stuart, E.A**. Implementing Statistical Methods for Generalizing Randomized Trial Findings to a Target Population. *Addictive Behaviors*. https://doi.org/10.1016/j.addbeh.2018.10.033

21. Townsend, L., Beaudry, M.B., Schweizer, B., Swartz, K., Wilcox, H., **Stuart, E.A**., Musci, R., Heley, K., and Ruble, A. Gender differences in depression literacy and stigma following a randomized controlled evaluation of a depression education program. *Journal of Adolescent Health.* https://doi.org/10.1016/j.jadohealth.2018.10.298

22. Rudolph, K., Goin, D., Paksarian, D., Crowder, R., Merikangas, K., and **Stuart, E.A.** (2018). Causal mediation analysis with observational data: considerations and illustration examining mechanisms linking neighborhood poverty to adolescent substance use. *American Journal*

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of Epidemiology. Published online 18 December 2018. https://www.ncbi.nlm.nih.gov/pubmed/30561500

23. Cowling, K., **Stuart, E.A.**, Neff, R., Magraw, D., Vernick, J., and Pollack Porter, K. The impacts of joining the World Trade Organization (WTO) on non-communicable disease risk factors: a natural experiment, 1980-2013 (NCD) Research. *Bulletin of the World Health Organization.* https://www.who.int/bulletin/volumes/97/2/18-218057.pdf

24. Dahabreh, I., Robertson, S., **Stuart, E.A.**, Hernan, M., and Tchetgen Tchetgen, E. Generalizing causal inferences from individuals in randomized trials to all trial-eligible individuals. *Biometrics.* Published online June 21, 2019. https://doi.org/10.1111/biom.13009

25. Westreich, D., Edwards, J., Lesko, C., Cole, S., and **Stuart, E.A.** (2018). Target validity and the hierarchy of study designs. *American Journal of Epidemiology.* Published online October 9, 2018. PMID: 30299451. https://www.ncbi.nlm.nih.gov/pubmed/30299451

26. Hong, H., Aaby, D.A., Siddique, J., and **Stuart, E.A**. Propensity score-based estimators with multiple error-prone covariates. *American Journal of Epidemiology.* https://doi.org/10.1093/aje/kwy210

27. Rathbun, A., Shardell, M., **Stuart, E.A.**, Gallo, J., Schuler, M., Hochberg, M., and Yau, M.. Pain Severity as a Mediator of the Association between Depressive Symptoms and Physical Performance in Knee Osteoarthritis. *Osteoarthritis and Cartilage.* https://www.ncbi.nlm.nih.gov/pubmed/30092262

28. Kohler, U., Kreuter, F., and **Stuart, E.A.** Nonprobability sampling and causal analysis. *Annual Reviews of Statistics and its Application.* https://doi.org/10.1146/annurev-statistics-030718-104951

29. **Raghavan, K., Wang, X., Paige, D., **Stuart, E.A.**, Wang, G., Hong, X., Ji, Y., and Fallin, D.M. Cord and early childhood plasma adiponectin levels and Autism risk: A prospective birth cohort study. *Journal of Autism and Developmental Disorders.* https://doi.org/10.1007/s10803-018-3688-5

30. McDowell MJ, Busch AB, Sen AP, **Stuart EA**, Riedel L, Barry CL, Huskamp HA. (2018). Participation in Accountable Care Organizations Among Hospitals Offering Substance Use Disorder and Mental Health Services. *Psychiatric Services.* August 2018: appi.ps. 201800248. doi:10.1176/appi.ps.201800248 https://doi.org/10.1176/appi.ps.201800248

31. Crum, R.M., Green, K.M., **Stuart, E.A.**, La Flair, L.N., Kealhofer, M., Young, A.S., **Krawczyk, N., **Tormohlen, K., Storr, C.L., Alvanzo, A.A.H., Mojtabai, R., Pacek, L.R., Cullen, B.A., and Reboussin, B.A. (2018). Transitions through stages of alcohol involvement: The potential role of mood disorders. *Drug and Alcohol Dependence* 189: 116-124. https://doi.org/10.1016/j.drugalcdep.2018.02.027

32. Callahan, K., and **Stuart, E.A.** (2018). Bringing Evidence to Bear on Public Health in the United States. *Public Health Reports* 133(1): Supplement 20S-24S. https://doi.org/10.1177/0033354918788879

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33. **Lenis, D., **Ackerman, B. and **Stuart, E.A**. Measuring Model Misspecification: Application to Propensity Score Methods with Complex Survey Data. *Computational Statistics and Data Analysis.* https://doi.org/10.1016/j.csda.2018.05.003

34. Bennett, W.L., Wilson, R.F., Zhang, A., Tseng, E., **Knapp, E.A., Kharrazi, H., **Stuart, E.A**., Shogbesan, O., Bass, E.B., and Cheskin, L.J. (2018). Methods for evaluating natural experiments in obesity: A systematic review. *Annals of Internal Medicine*. Published online 1 May 2018. http://pubmed.com/29710087

35. Kennedy-Hendricks, A., Epstein, A.J., **Stuart, E.A.,** Haffajee, R., McGinty, E.E., Busch, A.B., Huskamp, H., and Barry, C.L. (2018). Federal parity and spending for mental illness. *Pediatrics*. https://pediatrics.aappublications.org/content/142/2/e20172618.long

36. Mitchell, S., Gelman, A., Ross, R., Chen, J., Bari, S., Huynh, U.K., Harris, M.W., Sachs, S.E., **Stuart, E.A.,** Feller, A., Makela, S., Zaslavsky, A.M., McClellan, L., Ohemeng-Dapaah, S., Namakula, P., Palm, C.A., and Sachs, J.D. (2018). The Millennium Villages Project: A retrospective, observational, endline evaluation. *The Lancet Global Health* 6: e500-e513. http://www.thelancet.com/journals/langlo/article/PIIS2214-109X(18)30065-2/fulltext

37. **Susukida, R., Crum, R., **Stuart, E.A.,** and Mojtabai, R. (in press). Generalizability of the Findings from a Randomized Controlled Trial of a Web-based Substance Use Disorder Intervention. Forthcoming in *The American Journal on Addictions.*

38. Stern, H. Blower, D., Cohen, M.L., Czeisler, C., Dinges, D.F., Greenhouse, J.B., Guo, F., Hanowski, R.J., Hartenbaum, N.P., Krueger, G.P., Mallis, M.M., Pain, R.F., Rizzo, M., Sinha, E., Small, D.S., **Stuart, E.A**., and Wegman, D.H. (in press). Data and Methods for Studying Commercial Motor Vehicle Driver Fatigue, Highway Safety and Long-Term Driver Health. *Accident Analysis & Prevention.* Available online 9 March 2018. https://doi.org/10.1016/j.aap.2018.02.021

39. Tein*, J.-Y., Mazza*, G. L., Gunn, H. J., Kim, H., **Stuart, E. A**., Sandler, I. N., & Wolchik, S. A. Multi-Group Propensity Score Approach to Evaluating an Effectiveness Trial of the New Beginnings Program. Forthcoming in *Evaluation & the Health Professions*. (*: Equal contributions by the authors.) PMID: 29635949. https://doi.org/10.1177/0163278718763499

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Winner of Warren Miller Prize for best paper published in Volume 15 of *Political Analysis.* Selected as a Fast Breaking Paper in the field of Social Sciences, general, by Thomson Reuters, due to its being one of the most-cited papers in its discipline published between 2006 and 2008 (see http://sciencewatch.com/dr/fbp/2008/08octfbp/08octfbpHoET/).

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Articles and Editorials not peer reviewed

1. Musci, R.J, and **Stuart, E.A.** (in press). Ensuring causal, not casual, inference. Invited commentary forthcoming in *Prevention Science.*

2. Sharfstein, J.M., **Stuart, E.A.**, and Antos, J. (2018). Global Budgets in Maryland: Assessing Results to Date. *Journal of the American Medical Association.* Published online May 21, 2018. https://jamanetwork.com/journals/jama/fullarticle/2682350.

3. Sharfstein, J.M., **Stuart, E.A.**, and Antos, J. (2018). Maryland's All-Payer Health Reform: A Promising Work, in Progress. *JAMA Internal Medicine.* Invited Commentary. Published online 16 January 2018.

4. Reardon, S.F., and **Stuart, E.A.** (2017). Editors' Introduction: Theme issue on variation in treatment effects. *Journal of Research on Educational Effectiveness* 10(4): 671-674. http://www.tandfonline.com/doi/pdf/10.1080/19345747.2017.1386037.

5. **Stuart, E.A**., Crifasi, C.K., McCourt, A., Vernick, J., and Webster, D.W. (2017). Different perspectives on analyzing data related to firearms and suicides. Letter to the Editor re: Anestis, M.D., Anestis, J.C., Butterworth, S.E. (2017). *American Journal of Public Health.* Published online July 12, 2017. http://ajph.aphapublications.org/doi/full/10.2105/AJPH.2017.303890

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7. **Stuart, E.A.**, and ****Hanna, D.B.** (2013). Commentary: Should epidemiologists be more sensitive to design sensitivity? Invited Commentary. *Epidemiology* 24(1): 88-89. PMID: 23232614. http://www.ncbi.nlm.nih.gov/pubmed/23232614.

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11. **Stuart, E.A.** (2010). Book review of *Design of Observational Studies* by Paul R. Rosenbaum. *Journal of Educational and Behavioral Statistics* 35(6): 774-778. http://www.jstor.org/stable/40959480.

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15. **Stuart, E.A.** and Judson, D.H. (2003). An empirical evaluation of the use of administrative records to predict census day residency. *2003 Proceedings of the American Statistical Association, Section on Survey Research Methods* [CD-ROM]. Alexandria, VA: American Statistical Association. http://www.biostat.jhsph.edu/~estuart/judstujsmv2.pdf.

16. *Asher, J., Fienberg, S.E., **Stuart, E.A.** and Zaslavsky, A.M. (2003) . Inferences for finite populations using multiple data sources with different reference times. In *Proceedings of Statistics Canada Symposium 2002: Modelling Survey Data for Social and Economic Research*, Ottawa, Ontario: Statistics Canada.

17. ***Stuart, E.A.** and Zaslavsky, A.M. (2001). Using administrative records to predict census day residency. *2001 Proceedings of the American Statistical Association, Section on Survey Research Methods.* Alexandria, VA: American Statistical Association. http://www.biostat.jhsph.edu/~estuart/adrecjsm.pdf.

Chapters

1. Stuart, E.A. (2019). Propensity scores and matching methods. In *The Reviewer's Guide to Quantitative Methods in the Social Sciences, 2nd Edition.* Edited by Gregory R. Hancock, Laura M. Stapleton, and Ralph O. Mueller. New York, NY: Routledge. pp. 388-396.

2. King, G., Imai, K., and **Stuart, E.A.** (2014). Misunderstandings between experimentalists and observationalists about causal inference. In *Field Experiments and their Critics: Essays on the uses and abuses of experimentation in the Social Sciences* (Dawn Langan Teele, Editor). New Haven, CT: Yale University Press. pp. 196-227.

3. **Stuart, E.A.** and **Naeger, S. (in press). Getting from correlation to causation: Estimating causal effects in health services research. Forthcoming in *Handbook of Health Services Research.* Edited by Boris Sobolev and Constantine Gatsonis.

4. **Stuart, E.A.** (2017). Generalizability of clinical trial results. *Methods in Comparative Effectiveness Research.* Edited by Constantine Gatsonis and Sally C. Morton.

5. Hill, J., and **Stuart, E.A.** (2015). Causal inference: Overview. *International Encyclopedia of the Social and Behavioral Sciences: Statistics, 2nd Edition.* pp. 255-260. Edited by Rafe Stolzenberg and Michael E. Sobel.

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6. **Stuart, E.A.,** Leoutsakos, J-M., **Gross, A.L., **Kuramoto, S.J., and Eaton, W.W. (2012). An introduction to quantitative methods especially relevant for public mental health. *Public Mental Health.* Edited by William W. Eaton. Oxford University Press.

7. Eaton, W.W., Mojtabai, R., **Stuart, E.A.**, Leoutsakos, J-M.S., Kuramoto, S.J. (2012). Assessment of distress, disorder, impairment and need in the population. *Public Mental Health.* Edited by William W. Eaton. Oxford University Press.

8. **Stuart, E.A.** and Rubin, D.B. (2007). Best practices in quasi-experimental designs: Matching methods for causal inference. Forthcoming in *Best Practices in Quantitative Methods*, Edited by Jason Osborne (Chapter 11, pp. 155-176). New York: Sage Publications.

9. **Stuart, E.A**. (2003) Propensity scores. In *Encyclopedia of Social Science Research Methods*, Edited by Lewis-Beck, M., Bryman, A.E., and Liao, T.F. New York: Sage Publications.

Practice-Related Reports

1. 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.

2. 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

3. 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

4. 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/utils/getfile/collection/feddocs/id/524/filename/525.pdf.

5. 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.

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6. **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.

7. 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.

8. 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.

9. *****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
Presentations to policy-makers and other stakeholders

10. "The Quantum Opportunity Program Demonstration: Final Impacts." Briefing for Deputy Assistant Secretary, U.S. Department of Labor, Washington, DC, 2006.

11. "The Individual Training Accounts Experiment: What Did We Learn?" Briefing for Deputy Assistant Secretary, U.S. Department of Labor, Washington, DC, 2006.

12. "Power analysis for the behavioral sciences". Administration for Children and Families, U.S. Department of Health and Human Services, March 2009.

13. "Introduction to Statistics". State of Delaware Psychiatry Residency Program, March 2009

14. "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).

15. "The loss of external validity in program evaluations that select sites purposively." Institute of Education Sciences Speaker Series, Washington, DC, 2011.

16. "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.

17. "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

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18. "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.

19. "Propensity score methods with complex survey data." Invited lecture at the National Center for Health Statistics, Hyattsville, MD, 2015.

20. "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.

21. "Propensity score methods." Invited lecture in the Division of Cancer Control and Prevention Sciences, National Cancer Institute, Bethesda, MD, July 2016.

22. "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.

23. "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.

24. "Advanced methods for non-experimental studies." One-day short course at National Center for Education Statistics, US Department of Education, January 2018.

25. 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.

26. "Designs for evidence-based policymaking." Presentation to the Lab@DC. Washington, DC, January 2019.

27. "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

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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 Candidate, Biostatistics
        • Fellow, Data Science for Social Good

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, University of California at Davis
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

E.A. Stuart

Current position: Assistant Scientist, Department of Health Policy and Management,
        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
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)

Name	Department	Year
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

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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

Final Oral Participation (PhD or DrPH)

Erin McDonald	Health, Behavior, and Society	2007
Xianbin Li	Biostatistics	2008

E.A. Stuart

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

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Margaret (Jean) Flores Health Policy and Management   2019
Lindsey Ferris   Health Policy and Management   2019

Training Grant Mentorship
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-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"

Classroom Instruction
Johns Hopkins University

Year	Course/Description	Enrollment
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

Guest Lectures
2016-2017   Public health perspectives on Autism Spectrum Disorders (D. Fallin and

E.A. Stuart

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

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)

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"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

Title	Agency	Level	Budget Amount
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

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Title	Agency		Amount
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

Co-investigator

Title	Grant Number	PI	Agency
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

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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

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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 Classroom Management Techniques (JHSPH PI: Ialongo)		Bradshaw	IES
Feasibility of Web-Based Coach Training to Support Classroom Prevention Programs		Ialongo	NIDA
Center for Prevention and Early Intervention		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		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
      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-

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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 Teaching Academy Advisory Council, 2019 -
Biomedical Workforce Taskforce, 2018 -
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.

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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.

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- 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.

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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.

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- 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

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.

50

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- 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.
- 21st 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.
- 2nd 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

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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.

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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

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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 fur 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 50th 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

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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

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

E.A. Stuart

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