CURRICULUM VITAE

Elizabeth A. Stuart, Ph.D.

PROFESSIONAL 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

2021-   Vice Dean for Education
2020-   Bloomberg Professor of American Health
2016-2021   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)

Johns Hopkins University School of Education (courtesy 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

2006-2011   Assistant Professor
Johns Hopkins Bloomberg School of Public Health

E.A. Stuart

2004-2006	Researcher
	Mathematica Policy Research, Inc.

2004-2006   Researcher
             Mathematica Policy Research, Inc.

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

2002.   Contractor
             U.S. Bureau of the Census

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

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

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

1997.   Research Assistant
             Department of Mathematics, Smith College

PROFESSIONAL ACTIVITIES
Society Membership and Leadership
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
        Excellence in Statistical Reporting Award Committee, 2021-2023
        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

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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, 2018-2020

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 Advisory Panels and Boards

2021-	Committee on the Implications of Using Multiple Data Sources for Major Survey Programs, National Academies of Sciences Engineering and Medicine
2021-	External Advisory Board, Center for Perioperative Mental Health (NIMH-funded ALACRITY Center), Washington University
2021-	co-Chair, National Academies of Sciences Engineering and Medicine Panel on Assessing Causality from a Multidisciplinary Evidence Base for National Ambient Air Quality Standards
2020-2023	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	Panel to assess the long-term impacts of antimalarials, National Academies of Sciences, Engineering, and Medicine
2019	National Cancer Institute (NCI) Provocative Questions Workshop Member
2018	Friends of Cancer Research Historical Control Task Force

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

Consultations
2018-	University of Rochester, Crisis Text Line evaluation (Dr. Anthony Pisani)
2016-	National Cancer Institute
2014-	Georgetown University (Center for Research on Children in the United States)
2014-2016	Arizona State University (Prevention Research Center; Dr. Irwin Sandler)
2013-	Brigham and Women's Hospital (Department of Pharmacoepidemiology)

2013   SRI International
2012-2013   National Opinion Research Center (NORC)
2010-2013   Abt Associates
2009-2011   Washington University
2008-2010   American Institutes for Research
2008   The Urban Institute
2006-2012   University of Pennsylvania School of Medicine
2006   Mathematica Policy Research, Inc.
2004-2006   RAND Corporation
2002-2005   Genzyme Corporation
2000-2004   Active Girls Initiative

Faculty Affiliations
Johns Hopkins Center for Gun Policy and Research (Affiliate, 2019 -)
Bloomberg American Health Initiative (Evidence workgroup lead, 2016-)
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 AND OTHER PEER REVIEW 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*

Journal Peer Review Activities

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

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

Proposal Reviews
2017 – 2020 Chair, National Institute of Mental Health Services Research Committee (**SERV**)
2015-2017 Standing Member, National Institute of Mental Health Services Research Committee (**SERV**)
2014   National Institute of Mental Health, Clinical Trials to Test the Effectiveness of Treatment, Prevention, and Services Interventions R01 and R01 Collaborative (Clinical Trials R01) Applications (**ZMH1 ERB-K (01))**
2014   National Institute of Mental Health, Services Conflicts (**ZMH1 ERB-K (06)**)
2014   National Institute of Mental Health, Improving Health and Reducing Premature Mortality in People with Severe Mental Illness (**ZMH1 ERB-1 03 R**)
2014-2016   Principal member, Institute of Education Sciences, U.S. Department of Education, Education Systems and Broad Reform Review Panel
2013   National Institute of Mental Health, Fellowships and Dissertations Review Panel (**ZMH1 ERB-K 01 L**; ad hoc**)**
2013   Institute of Education Sciences, U.S. Department of Education, Accelerating the Academic Achievement of Students with Learning Disabilities Research Initiative Review Panel (ad hoc)
2012   National Institute of Mental Health, Grand Challenges in Global Mental Health, Special Emphasis Panel (**ZMH1 ERB-B**)
2011-2013 Principal member, Institute of Education Sciences, U.S. Department of Education Statistics and Modeling Panel
2011-2012 Institute of Education Sciences, U.S. Department of Education, Math and Science I Review Panel (ad hoc)
2010 National Institute of Mental Health, Interventions Committee For Disorders Involving Children And Their Families (**ITVC**; ad hoc)

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2010 Institute of Education Sciences, U.S. Department of Education, Early Intervention and Early Childhood Education Panel (ad hoc)
2010 Institute of Education Sciences, U.S. Department of Education, Education Systems and Broad Reform Panel (ad hoc)
2009 Institute of Education Sciences, U.S. Department of Education, Reading, Writing, and Language Development Panel (ad hoc)

Book reviewer
Oxford University Press
Sage Publications
Springer Verlag

Ad-hoc review of grant proposals
National Science Foundation
Netherlands Organisation for Health Research and Development

HONORS AND AWARDS
Honors

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

Awards

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

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2002, 2004	Harvard University Certificate of Distinction in Teaching
1999	Harvard University William Cochran Fellowship
1999-2001	National Science Foundation Graduate Research Fellowship
1997	Smith College Pokora Prize for Senior who excels in Mathematics
1995-1997	Barry M. Goldwater Scholar
1993-1997	Robert C. Byrd Scholar

Named Lectureships

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

PUBLICATIONS
[* indicates order of authors alphabetical]
[** indicates student co-author]

Journal Articles (peer review)

1. Griffin, B.A., Stein, B., Pacula, R.L., Schuler, M., **Stuart, E.A.**, Patrick, S., Schell, T., Smart, R., Powell, D., and McNeer, E. (in press). Moving beyond the classic difference-in-differences model: A simulation study comparing statistical methods for estimating effectiveness of state-level policies. Forthcoming in *BMC Medical Research Methodology.*

2. Davi, R., Stewart, M., **Stuart, E.A.**, Mishra-Kalyani, P., Sridhara, R., Yin, X., and Dawson, J. (in press). Exploring the potential of external control arms created from patient level data: A case study in non-small cell lung cancer. Forthcoming in *Journal of Biopharmaceutical Statistics.*

3. Badillo-Goicoechea, E., Chang, T., Kim, E., LaRocca, S., Morris, K., Deng, X., Chiu, S., Bradford, A., Garcia, A., Kern, C., Cobb, C., Kreuter, F., and **Stuart, E.A.** (in press). Global Trends and Predictors of Face Mask Usage During the COVID-19 Pandemic. *BMC Public Health*. Published online 15 Nov 2021. https://pubmed.ncbi.nlm.nih.gov/34781917

4. Gibbons, J., **Stuart, E.A**., and Saloner, B. (in press). Methadone on wheels: Mobile units offer promise but need financial, technical, and policy support. Forthcoming in *JAMA Psychiatry.*

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5. **Kahn, G.D., Rabinowitz, J.A., Stuart, E.A., Wilcox, H.C. (2021). Prospective examination of self-harm up to three years after contact with Child Protective Services (CPS). *International Journal of Injury Control and Safety Promotion*. Published online 18 Oct 2021. https://doi.org/10.1080/17457300.2021.1993266

6. **Brenneke, S., **Nordeck, C., **Riehm, K., **Schmid, I., Tormohlen, K., **Smail, E., **Stuart, E.A.,** Kalb, L., Johnson, R.M., and Thrul, J. (in press). Trends in cannabis use among US adults amid the COVID-19 pandemic. Forthcoming in *International Journal of Drug Policy*.

7. **Robertson, S., Steingrimsson, J., **Stuart, E.A**., Joyce, N., and Dahabreh, I. (in press). Estimating subgroup effects in generalizability and transportability analysis. Forthcoming in *American Journal of Epidemiology.*

8. **Riehm, K., Brignone, E., **Stuart, E.A.,** Gallo, J., and Mojtabai, R. (in press). Diagnoses and treatment after depression screening in primary care among youth. Forthcoming in *American Journal of Preventive Medicine. Published online 17 Nov 2021. https://doi.org/10.1016/j.amepre.2021.09.008*

9. Tormohlen, K.N., Bicket, M.C., White, S., Barry, C.L., **Stuart, E.A**., Rutkow, L., McGinty, EE. The state of the evidence on the association between state cannabis laws and opioid-related outcomes: A review. *Current Addiction Reports* 8, 538–545 (2021). https://doi.org/10.1007/s40429-021-00397-1

10. Smail, E., Riehm, K., Veldhuis, C., Johnson, R., Holingue, C., **Stuart, E.A**, Kalb., L., & Thrul, J. (In Press). Associations of Household Structure and Presence of Children in the Household with Mental Distress during the early stages of the US COVID-19 Pandemic. Forthcoming in *Families, Systems, and Health*.

11. Tormohlen, K. N., Mojtabai, R., Seiwell, A., McGinty, E.E., **Stuart, E. A.,** Tobin, K.E., & Troiani, V. (in press). Co-occurring opioid use and depressive disorders: Patient characteristics and co-occurring health conditions. *Journal of Dual Diagnosis*. Published online: 28 Sep 2021. https://doi.org/10.1080/15504263.2021.1979349

12. Kennedy-Hendricks, A., Schilling, C.J., Busch, A.B., **Stuart, E.A**., Huskamp, H.A., Meiselbach, M.K., Barry, C.L., and Eisenberg, M. (in press). Impact of high deductible health plans on continuous buprenorphine treatment for opioid use disorder. Accepted July 30, 2021 by the *Journal of General Internal Medicine*. Published online: 17 Aug 2021. https://doi.org/10.1007/s11606-021-07094-9

13. Kalb, L., Badillo-Goicoechea, E., Holingue, C., **Riehm, K., Thrul, J., **Stuart, E.A**, **Smail, J., Law, K., White-Lehman, C., & Fallin, M.D (2021). Psychological Distress among Caregivers Raising a Child with Autism Spectrum Disorder during the COVID-19 Pandemic. *Autism Research* 14 (10): 2183-2188. https://doi.org/10.1002/aur.2589

14. Lee, Y., Nguyen, T.Q., and **Stuart, E.A.** (2021). Partially Pooled Propensity Score Models for Average Treatment Effect Estimation with Multilevel Data. *Journal of the Royal Statistical Society Series A* 184(4): 1578-1598. https://doi.org/10.1111/rssa.12741

15. Schilling, C., Barry, C.B., Kennedy-Hendricks, A., Huskamp, H., Busch, A., Meiselbach, M., **Stuart, E.A.,** and Eisenberg, M. (in press). Effects of High Deductible Health Plans on Enrollees with Mental Health Conditions with and without Substance Use Disorders. Forthcoming in *Psychiatric Services.* Published Online: 30 Sep 2021. https://doi.org/10.1176/appi.ps.202000914

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16. McGinty, E.E., Nair, R., Assini-Meytin, L.C., **Stuart, E.A**., and Letourneau, E.J. (in press). Impact of Medicaid expansion on reported incidents of child neglect and physical abuse. Forthcoming in *American Journal of Preventive Medicine.* Published Online: 30 Sep 2021. https://doi.org/10.1016/j.amepre.2021.06.010

17. Pishgar, F., Greifer, N., Leyrat, C., and **Stuart, E.A.** (in press). MatchThem: Matching and weighting after multiple imputation. *The R Journal.* https://journal.r-project.org/archive/2021/RJ-2021-073/RJ-2021-073.pdf

18. Powell, M., Koenecke, A., Byrd, J. B., Nishimura, A., Konig, M. F., Xiong, R., Mahmood, S., Mucaj, V., Bettegowda, C., Rose, L., Tamang, S., Sacarny, A., Caffo, B., Athey, S., **Stuart, E. A.**, & Vogelstein, J. T. (2021). Ten Rules for Conducting Retrospective Pharmacoepidemiological Analyses: Example COVID-19 Study. Frontiers in pharmacology, 12, 700776. https://doi.org/10.3389/fphar.2021.700776

19. **Hecht, A. A., **Stuart, E. A.**, & Pollack Porter, K. M. (2021). Factors Associated with Universal Free School Meal Provision Adoption among US Public Schools. *Journal of the Academy of Nutrition and Dietetics*, S2212-2672(21)00705-X. Published Online 19 Aug 2021: https://doi.org/10.1016/j.jand.2021.06.282

20. Dick, A. S., Lopez, D. A., Watts, A. L., Heeringa, S., Reuter, C., Bartsch, H., Fan, C. C., Kennedy, D. N., Palmer, C., Marshall, A., Haist, F., Hawes, S., Nichols, T. E., Barch, D. M., Jernigan, T. L., Garavan, H., Grant, S., Pariyadath, V., Hoffman, E., Neale, M., … Thompson, W. K. (2021). Meaningful associations in the adolescent brain cognitive development study. *NeuroImage*, 239, 118262. https://doi.org/10.1016/j.neuroimage.2021.118262

21. **Nordeck, C., **Riehm, K., **Smail, E., Holingue, C., **Kane, J., Johnson, R.M., Veldhuis, C., Kalb, L., Kreuter, F., **Stuart, E.A**., and Thrul, J. (in press). Changes in drinking days among US adults during the COVID-19 pandemic. Forthcoming in *Addiction.* Published online 22 Jun 2021: https://doi.org/10.1111/add.15622

22. Yan, M., Sigurdson, S., Greifer, N., Kennedy, T., Szen Toh, T., Lindsay, P.E., Weiss, J., Hueniken, K., Yeung, C., Sugumar, V., Sun, A., Bezjak, A., Cho, J., Raman, S., Hope, A.J., Giuliani, M.E., **Stuart, E.A**., Owen, T., Ashworth, A., Robinson, A., Ynoe Moraes, F., Liu, G., and Lok, B.H. (2021). A Comparison of Hypofractionated and Twice Daily Thoracic Irradiation in Limited-Stage Small Cell Lung Cancer: An Overlap Weighted Analysis. *Cancers* 13(12): 2895. https://doi.org/10.3390/cancers13122895

23. Patel, E., Bandara, S., Saloner, B., **Stuart, E. A.,** Goodman, D., Terplan, M., McCourt, A., White, S., & McGinty, E. E. (2021). Heterogeneity in prenatal substance use screening despite universal screening recommendations: findings from the Pregnancy Risk Assessment Monitoring System, 2016-2018. American journal of obstetrics & gynecology MFM, 3(5), 100419. https://doi.org/10.1016/j.ajogmf.2021.100419

24. **Stuart, E.A.,** Schmid, I., Nguyen, T.Q., Sarker, E., Pittman, A., Benke, K., Rudolph, K., Badillo-Goicoechea, E., and Leoutsakos, J-M. (in press). Assumptions not often assessed or satisfied published mediation analyses in psychology and psychiatry. Forthcoming in *Epidemiologic Reviews.* Published online 22 Sep 2021: https://doi.org/10.1093/epirev/mxab007

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25. Greifer, N., and **Stuart, E.A**. (2021). Matching Methods for Confounder Adjustment: an Addition to the Epidemiologist's Toolbox. *Epidemiologic Reviews*; mxab003, https://doi.org/10.1093/epirev/mxab003

26. Feller, A., and **Stuart, E.A.** (2021). Challenges with evaluating education policy using panel data during and after the COVID-19 pandemic. Journal of Research on Educational Effectiveness, 14:3, 668-675. http://doi.org/10.1080/19345747.2021.1938316

27. Koenecke, A., Powell, M., Xiong, R., Shen, Z., Fischer, N., Huq, S., Khalafallah, A. M., Trevisan, M., Sparen, P., Carrero, J. J., Nishimura, A., Caffo, B., **Stuart, E. A**., Bai, R., Staedtke, V., Thomas, D. L., Papadopoulos, N., Kinzler, K. W., Vogelstein, B., Zhou, S., … Athey, S. (2021). Alpha-1 adrenergic receptor antagonists to prevent hyperinflammation and death from lower respiratory tract infection. *eLife*, 10, e61700. https://doi.org/10.7554/eLife.61700

28. Haber, N. A., Clarke-Deelder, E., Salomon, J. A., Feller, A., & **Stuart, E. A.** (2021). Impact Evaluation of Coronavirus Disease 2019 Policy: A Guide to Common Design Issues. American journal of epidemiology, 190(11), 2474–2486. https://doi.org/10.1093/aje/kwab185

29. Lessler, J., Grabowski, M. K., Grantz, K. H., Badillo-Goicoechea, E., Metcalf, C., Lupton-Smith, C., Azman, A. S., & **Stuart, E. A**. (2021). Household COVID-19 risk and in-person schooling. Science (New York, N.Y.), 372(6546), 1092–1097. https://doi.org/10.1126/science.abh2939

30. Solomon, K., Krawczyk, N., **Stuart, E.A.**, Bandara, S., Connolly, E., Reynolds, I., and **Saloner, B**. (2021). Association Between Availability of Medications for Opioid Use Disorder in Specialty Treatment and Use of Medications Among Patients: A State-Level Trends Analysis. *Journal of Substance Abuse Treatment*. 132, 108424. https://doi.org/10.1016/j.jsat.2021.108424

31. **Huang, W., Chang, C. H., **Stuart, E. A.**, Daumit, G. L., Wang, N. Y., McGinty, E. E., Dickerson, F. B., & Igusa, T. (2021). Agent-Based Modeling for Implementation Research: An Application to Tobacco Smoking Cessation for Persons with Serious Mental Illness. *Implementation research and practice*, 2, 10.1177/26334895211010664. https://doi.org/10.1177/26334895211010664

32. **Burgdorf, J. G., Arbaje, A. I., **Stuart, E. A.**, & Wolff, J. L. (2021). Unmet family caregiver training needs associated with acute care utilization during home health care. *Journal of the American Geriatrics Society*, 69(7), 1887–1895. https://doi.org/10.1111/jgs.17138

33. McGinty, E. E., Thompson, D., Murphy, K. A., **Stuart, E. A**., Wang, N. Y., Dalcin, A., Mace, E., Gennusa, J. V., 3rd, & Daumit, G. L. (2021). Adapting the Comprehensive Unit Safety Program (CUSP) implementation strategy to increase delivery of evidence-based cardiovascular risk factor care in community mental health organizations: protocol for a pilot study. *Implementation science communications*, 2(1), 26. https://doi.org/10.1186/s43058-021-00129-6

34. **Antiporta, D.A., Cutipé, Y.L., Mendoza, M, **Stuart, E.A.**. et al. Depressive symptoms among Peruvian adult residents amidst a National Lockdown during the COVID-19 pandemic. *BMC Psychiatry* 21, 111 (2021). https://doi.org/10.1186/s12888-021-03107-3

E.A. Stuart

35. **Ferris, L.M., Saloner, B., Jackson, K., Lyons, B.C., Murthy, V., Kharrazi, H., Latimore, A., **Stuart, E.A.,** and Weiner, J.P. (2021). Performance of a predictive model versus prescription-based thresholds in identifying patients at risk of fatal opioid overdose. *Substance Use & Misuse.* Published online 15 January 2021. https://doi.org/10.1080/10826084.2020.1868520.

36. **Ackerman, B., Siddique, J., & **Stuart, E. A.** (2021). Calibrating validation samples when accounting for measurement error in intervention studies. Statistical methods in medical research, 30(5), 1235–1248. https://doi.org/10.1177/0962280220988574

37. Power, M.C., Bennett, E., Glymour, M.M., Gianattasio, K.Z., Couper, D., Mosley, T.H., Jr., Gottesman, R.F., Griswold, M.E., Wei, J., Mehrotra, M. and **Stuart, E.A.** (2020), Assessing the generalizability of findings from the Alzheimer's Disease Neuroimaging Initiative to the Atherosclerosis Risk in Communities study cohort. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 16: e038874. https://doi.org/10.1002/alz.038874

38. **Riehm, K. E., Holingue, C., Smail, E. J., Kapteyn, A., Bennett, D., Thrul, J., Kreuter, F., McGinty, E. E., Kalb, L. G., Veldhuis, C. B., Johnson, R. M., Fallin, M. D., & **Stuart, E. A.** (2021). Trajectories of Mental Distress Among U.S. Adults During the COVID-19 Pandemic. *Annals of behavioral medicine : a publication of the Society of Behavioral Medicine*, 55(2), 93–102. https://doi.org/10.1093/abm/kaaa126

39. **Riehm, K.E., **Brenneke, S.G., Adams, L.B., Gilan, D., Lieb, K., Kunzler, A.M., **Smail, E.J., Holingue, C., **Stuart, E.A**., Kalb, L.G., and Thrul, J. (2020). Association between psychological resilience and changes in mental distress during the COVID-19 pandemic. *Journal of Affective Disorders* 282: 381-385. https://pubmed.ncbi.nlm.nih.gov/33421866/

40. Krawczyk, N., Garrett, B., Ahmad, N. J., Patel, E., Solomon, K., **Stuart, E. A.**, & Saloner, B. (2021). Medications for opioid use disorder among American Indians and Alaska natives: Availability and use across a national sample. Drug and alcohol dependence, 220, 108512. https://doi.org/10.1016/j.drugalcdep.2021.108512

41. McGinty, E.E., Tormohlen, K.N., Barry, C.L., Bicket, M.C., Rutkow, L., **Stuart, E. A.** Protocol: mixed-methods study of how implementation of US state medical cannabis laws affects treatment of chronic non-cancer pain and adverse opioid outcomes. *Implementation Science.* 16, 2 (2021). https://doi.org/10.1186/s13012-020-01071-2

42. Ben-Michael, E., Feller, A., and **Stuart, E.A.** (2021). A trial emulation approach for policy evaluations with group-level longitudinal data. *Epidemiology. 32, 4. 533-540.* https://doi.org/0.1097/EDE.0000000000001369

43. Oh, E. S., Rosenberg, P. B., Rattinger, G. B., **Stuart, E. A.**, Lyketsos, C. G., & Leoutsakos, J. S. (2021). Psychotropic Medication and Cognitive, Functional, and Neuropsychiatric Outcomes in Alzheimer's Disease (AD). *Journal of the American Geriatrics Society*, 69(4), 955–963. https://doi.org/10.1111/jgs.16970

44. **Ackerman, B., Lesko, C.R., Siddique, J., Susukida, R., and **Stuart, E.A.** (2021). Generalizing randomized trial findings to a target population using complex survey population data. *Statistics in Medicine.* 40(5): 1101-1120. https://onlinelibrary.wiley.com/doi/abs/10.1002/sim.8822

E.A. Stuart

45. **Pittman, A., **Stuart, E.A**., and Siddique, J. (2020). Characterizing measurement error in dietary sodium in longitudinal intervention studies. *Frontiers in Nutrition,* Nutritional Epidemiology section. 27 November 2020. https://pubmed.ncbi.nlm.nih.gov/33330581/

46. Seamans, M.J., Hong, H., **Ackerman, B., **Schmid, I., and **Stuart, E.A** (in press). Generalizability of subgroup effects. Forthcoming in *Epidemiology*.

47. **Burgdorf, J. G., **Stuart, E. A.**, Arbaje, A. I., & Wolff, J. L. (2021). Family Caregiver Training Needs and Medicare Home Health Visit Utilization. *Medical care*, 59(4), 341–347. https://doi.org/10.1097/MLR.0000000000001487

48. Schuler, M., Cerda, M., McGinty, E.E., **Stuart, E.A.,** and Griffin, B.A. (2020). Methodological challenges and proposed solutions for evaluating opioid policy effectiveness. *Health Services and Outcomes Research Methodology.* Published online 12 November 2020.

49. Kennedy-Hendricks, A., Bandara, S., Daumit, G. L., Busch, A. B., Stone, E. M., **Stuart, E. A.**, Murphy, K. A., & McGinty, E. E. (2021). Behavioral health home impact on transitional care and readmissions among adults with serious mental illness. *Health services research*, 56(3), 432–439. https://doi.org/10.1111/1475-6773.13594

50. Wang, L., Motter, J., Bae, S., Ahn, J. B., Kanakry, J. A., Jackson, J., Schnitzler, M. A., Hess, G., Lentine, K. L., **Stuart, E. A.**, Segev, D. L., & McAdams-DeMarco, M. (2020). Induction immunosuppression and the risk of incident malignancies among older and younger kidney transplant recipients: A prospective cohort study. *Clinical transplantation*, 34(12), e14121. https://doi.org/10.1111/ctr.14121

51. Holingue, C., Kalb, L. G., Riehm, K. E., Bennett, D., Kapteyn, A., Veldhuis, C. B., Johnson, R. M., Fallin, M. D., Kreuter, F., **Stuart, E. A.**, & Thrul, J. (2020). Mental Distress in the United States at the Beginning of the COVID-19 Pandemic. *American journal of public health*, 110(11), 1628–1634. https://doi.org/10.2105/AJPH.2020.305857

52. **Krawczyk, N., Mojtabai, R., **Stuart, E. A.**, Fingerhood, M., Agus, D., Lyons, B. C., Weiner, J. P., & Saloner, B. (2020). Opioid agonist treatment and fatal overdose risk in a state-wide US population receiving opioid use disorder services. *Addiction* (Abingdon, England), 115(9), 1683–1694. https://doi.org/10.1111/add.14991

53. Austin, P.C., and **Stuart, E.A.** (2021). The effect of a constraint on the maximum number of controls matched to each treated subject on the performance of full matching on the propensity score when estimating risk differences. *Statistics in Medicine* 40(1): 101-118. https://onlinelibrary.wiley.com/doi/10.1002/sim.8764

54. Holingue, C., Badillo-Goicoechea, E., Riehm, K. E., Veldhuis, C. B., Thrul, J., Johnson, R. M., Fallin, M. D., Kreuter, F., **Stuart, E. A.**, & 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. *Preventive medicine*, 139, 106231. https://doi.org/10.1016/j.ypmed.2020.106231

55. **Feder, K.A., Ali, M.A., Sherman, L., Letourneau, E.J., Barry, C.L., **Stuart, E.A**., and Mutter, R. (2020) Elevated Prevalence of Antisocial Behavior in Adolescent Children Whose Mothers use Opioids. *Drug and Alcohol Dependence* 215: 108153*. https://pubmed.ncbi.nlm.nih.gov/32862083/

56. French, B., and **Stuart, E.A.** (2020). Study designs and statistical methods for studies of child and adolescent health policies. *JAMA Pediatrics* 174(10): 925-927. https://jamanetwork.com/journals/jamapediatrics/article-abstract/2769691

57. **Riehm, K., **Holingue, C., Kalb, L., Bennett, D., Kapteyn, A., Jiang, Q., Veldhuis, C., Johnson, R.M., Fallin, M.D., Kreuter, F., **Stuart, E.A.,** and Thrul, J. (2020). Associations between media exposure and mental distress among U.S. adults at the beginning of the COVID-19 pandemic. *American Journal of Preventive Medicine* 59(5): 630-638. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7351429/

58. 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

59. 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/10.1177/0193841X20938497

60. McCourt, A. D., Crifasi, C. K., **Stuart, E. A.**, Vernick, J. S., Kagawa, R., Wintemute, G. J., & Webster, D. W. (2020). Purchaser Licensing, Point-of-Sale Background Check Laws, and Firearm Homicide and Suicide in 4 US States, 1985-2017. *American Journal of Public Health,* 110(10), 1546–1552. https://doi.org/10.2105/AJPH.2020.305822

61. 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.**, & Tibshirani, R. (2020). Partnering with a global platform to inform research and public policy making. *Survey Research Methods*, 14(2), 159-163. https://doi.org/10.18148/srm/2020.v14i2.7761

62. Nguyen, T.Q., **Schmid, I., and **Stuart, E.A.** (2020). Clarifying causal mediation analysis for the applied researcher: Defining effects based on what we want to learn. *Psychological Methods.* Published online 2020 July 16. https://pubmed.ncbi.nlm.nih.gov/32673039/

63. Dahabreh, I. J., Haneuse, S., Robins, J. M., Robertson, S. E., Buchanan, A. L., **Stuart, E. A.**, & Hernán, M. A. (2021). Study Designs for Extending Causal Inferences From a Randomized Trial to a Target Population. *American Journal of Epidemiology*, 190(8), 1632–1642. https://doi.org/10.1093/aje/kwaa270

64. Rudolph, K. E., Goin, D. E., & **Stuart, E. A.** (2020). The Peril of Power: A Tutorial on Using Simulation to Better Understand When and How We Can Estimate Mediating Effects. *American Journal of Epidemiology*, 189(12), 1559–1567. https://doi.org/10.1093/aje/kwaa083

65. **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

66. Rathbun, A., Shardell, M.D., Ryan, A.S., Yau, M.S., Gallo, J.J., Schuler, M.S., **Stuart, E.A.,** and Hochberg, M.C. (2020). Association between Disease Progression and Depression

E.A. Stuart

Onset in Persons with Radiographic Knee Osteoarthritis. *Rheumatology* 59(11) : 3390-3399. https://doi.org/10.1093/rheumatology/keaa141

67. Amoah, J., **Stuart, E. A.**, Cosgrove, S. E., Harris, A. D., Han, J. H., Lautenbach, E., & Tamma, P. D. (2020). 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. *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*, 71(9), e497–e505. https://doi.org/10.1093/cid/ciaa169

68. Nguyen, T. Q., & 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*, *45*(5), 598–636. https://doi.org/10.3102/1076998620911920

69. McGinty, E. E., Stone, E. M., Kennedy-Hendricks, A., Bandara, S., Murphy, K. A., **Stuart, E. A.**, Rosenblum, M. A., & Daumit, G. L. (2020). Effects of Maryland's Affordable Care Act Medicaid Health Home Waiver on Quality of Cardiovascular Care Among People with Serious Mental Illness. *Journal of General Internal Medicine*, 35(11), 3148–3158. https://doi.org/10.1007/s11606-020-05690-9

70. 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

71. Krawczyk, N., Mojtabai, R.M., **Stuart, E.A.**, Fingerhood, M., Agus, D., Lyons, B.C., Weiner, J., and Saloner, B. (2020). Opioid agonist treatment and fatal overdose risk in a statewide U.S. population receiving opioid use disorder services. *Addiction* 115(9): 1683-1694. PMCID : PMC7426244*.* https://doi.org/10.1111/add.14991

72. Rudolph, K.E., Ahern, J., Stiles, J.L., Schmidt, N., and **Stuart, E.A.** (2020). Using transportability to understand differences in mediation mechanisms across trial sites: applying a novel estimation approach to a large-scale housing voucher experiment. *Epidemiology* 31(4) : 523-533. PMCID : PMC7269870.

73. 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

74. 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

75. Murphy, K. A., Daumit, G. L., Bandara, S. N., Stone, E. M., Kennedy-Hendricks, A., **Stuart, E. A.**, Pollack, C. E., & McGinty, E. E. (2020). Association Between the Maryland Medicaid Behavioral Health Home Program and Cancer Screening in People With Serious Mental Illness. *Psychiatric services (Washington, D.C.), 71*(6), 608–611. https://doi.org/10.1176/appi.ps.201900299

76. Mendelson, T., Clary, L., Sibinga, E., Tandon, S.D., Musci, R., Mmari, K., Salkever, D., **Stuart, E.A.**, and Ialongo, 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

77. 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

78. Heyward, J., Olson, L., Sharfstein, J. M., **Stuart, E. A.**, Lurie, P., & Alexander, G. C. (2020). Evaluation of the Extended-Release/Long-Acting Opioid Prescribing Risk Evaluation and Mitigation Strategy Program by the US Food and Drug Administration: A Review. *JAMA internal medicine*, *180*(2), 301–309. https://doi.org/10.1001/jamainternmed.2019.5459

79. **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

80. **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

81. **Feder, K. A., Mojtabai, R., Stuart, E. A., Musci, R., & Letourneau, E. J. (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*, *189*(9), 885–893. https://doi.org/10.1093/aje/kwaa015

82. 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

83. **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

84. **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

85. 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

86. 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

E.A. Stuart

87. Samples, H., **Stuart, E.A.**, Saloner, B., Barry, C.L., Mojtabai, R. (2020). The Role of Screening in Depression Diagnosis and Treatment in a Representative Sample of U.S. Primary Care Visits. *Journal of General Internal Medicine* 35(1): 12-20. https://www.ncbi.nlm.nih.gov/pubmed/31388917

88. 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.* 38:4: 978-1003. https://doi.org/10.1002/pam.22154

89. Rathbun, A. M., Schuler, M. S., Stuart, E. A., Shardell, M. D., Yau, M. S., Gallo, J. J., Ryan, A. S., & Hochberg, M. C. (2020). Depression Subtypes in Individuals With or at Risk for Symptomatic Knee Osteoarthritis. *Arthritis care & research*, *72*(5), 669–678. https://doi.org/10.1002/acr.23898

90. 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.* 109:3: 504–508, https://doi.org/10.1093/ajcn/nqy271

91. 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*.* PMCID: PMC6601526. https://www.ncbi.nlm.nih.gov/pubmed/30834448

92. Siddique, J., Daniels, M., Carroll, R., Trivellore, R., and **Stuart, E.A**. (2019). Measurement error correction and sensitivity analysis in longitudinal dietary intervention studies using an external validation study. *Biometrics.* 75(3):927-937. https://doi.org/10.1111/biom.13044

93. 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.* 26:5: 429–437. https://doi.org/10.1093/jamia/ocy188

94. 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

95. 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

96. 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/

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

98. Townsend, L., Beaudry, M.B., Schweizer, B., Swartz, K., Wilcox, H., **Stuart, E.A**., Musci, R.,

E.A. Stuart

Heley, K., and Ruble, A. (in press). 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

99. Rudolph, K., Goin, D., Paksarian, D., Crowder, R., Merikangas, K., and **Stuart, E.A.** (2019). Causal mediation analysis with observational data: considerations and illustration examining mechanisms linking neighborhood poverty to adolescent substance use. *American Journal of Epidemiology.* 1;188(3):598-608. https://doi.org/10.1093/aje/kwy248

100. 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

101. Dahabreh, I., Robertson, S., **Stuart, E.A.**, Hernan, M., and Tchetgen Tchetgen, E. (2018). Generalizing causal inferences from individuals in randomized trials to all trial-eligible individuals. *Biometrics.* 75:2: 685-69.4 https://doi.org/10.1111/biom.13009

102. Westreich, D., Edwards, J., Lesko, C., Cole, S., and **Stuart, E.A.** (2019). Target validity and the hierarchy of study designs. *American Journal of Epidemiology.* 188(2):438-443. doi: 10.1093/aje/kwy228

103. Hong, H., Aaby, D.A., Siddique, J., and **Stuart, E.A** (2018). Propensity score-based estimators with multiple error-prone covariates. *American Journal of Epidemiology,* 188:1222–230, https://doi.org/10.1093/aje/kwy210

104. Rathbun, A., Shardell, M., **Stuart, E.A.**, Gallo, J., Schuler, M., Hochberg, M., and Yau, M. (2018). 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

105. Kohler, U., Kreuter, F., and **Stuart, E.A.** (2018). Nonprobability sampling and causal analysis. *Annual Reviews of Statistics and its Application.* https://doi.org/10.1146/annurev-statistics-030718-104951

106. **Raghavan, K., Wang, X., Paige, D., **Stuart, E.A.**, Wang, G., Hong, X., Ji, Y., and Fallin, D.M. (2019). 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

107. 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

108. 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

109. 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

110. **Lenis, D., **Ackerman, B. and **Stuart, E.A**. (2019). 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

111. 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

112. 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

113. 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

114. **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.*

115. 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

116. 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

117. McGinty EE, **Stuart EA**, Alexander GC, Barry CL, Bicket MC, Rutkow L. Protocol: Mixed-methods study to evaluate implementation, enforcement, and outcomes of U.S. state laws intended to curb high-risk opioid prescribing. *Implementation Science*. https://implementationscience.biomedcentral.com/articles/10.1186/s13012-018-0719-8

118. Werner, R., **Stuart, E.A**., and Kontezka, T. (2018). The effect of integration of hospitals and post-acute care providers on Medicare payment and patient outcomes. *Journal of Health Economics* 61: 244-258. https://doi.org/10.1016/j.jhealeco.2018.01.005

119. Nguyen, T.Q., Johnson, R., Ebnesajjad, C., **Stuart, E.A.**, and Kennedy, R.D. Does Marijuana Use at Ages 16-18 Predict Initiation of Daily Cigarette Smoking in Late Adolescence and Early Adulthood? A Propensity Score Analysis of Add Health Data. *Prevention Science.* https://doi.org/10.1007/s11121-018-0874-9

120. Rathbun, A.M., Shardell, M., **Stuart, E.A**., Baldini, A., Orwig, D., Ostir, G., Hicks, G., Hochberg M., and Magaziner, J. (2018). Persistence of Depressive Symptoms and Gait

E.A. Stuart

Speed Recovery in Older Adults after Hip Fracture. *International Journal of Geriatric Psychiatry* 2018: 1-8. https://doi.org/10.1002/gps.4864

121. Susukida, R., Crum, R., **Stuart, E.A.,** and Mojtabai, R. (2018). Comparing pharmacological treatments for cocaine dependence: Incorporation of methods for enhancing generalizability in meta-analytic studies. *International Journal of Methods in Psychiatric Research* e1609. https://doi.org/10.1002/mpr.1609.

122. Rathbun AM, **Stuart EA**, Shardell MD, Yau MS, M Baumgarten, Hochberg MC. Dynamic effects of depressive symptoms on osteoarthritis knee pain. (2018). *Arthritis Care Research* 70(1): 80-88. PMCID: PMC5607075. http://www.ncbi.nlm.nih.gov/pubmed/28320048.

123. Stoto, M., Oakes, M., **Stuart, E.**, Savitz, L., Priest, E.L., Zurovac, J. (2017). Analytical Methods for a Learning Health System: 1. Framing the Research Question. *eGEMs (Generating Evidence & Methods to improve patient outcomes)*. 5(1): 28. http://egems.academyhealth.org/articles/abstract/10.5334/egems.250.

124. Stoto, M., Oakes, M., **Stuart, E.**, Priest, E.L., Savitz, L. (2017). Analytical Methods for a Learning Health System: 2. Design of Observational Studies. *eGEMs (Generating Evidence & Methods to improve patient outcomes)*. 5(1): 29. http://egems.academyhealth.org/articles/abstract/10.5334/egems.251.

125. Stoto, M., Oakes, M., **Stuart, E.**, Brown, R., Zurovac, J., Priest, E.L. (2017). Analytical Methods for a Learning Health System: 3. Analysis of Observational Studies. *eGEMs (Generating Evidence & Methods to improve patient outcomes)*. 5(1): 30. http://egems.academyhealth.org/articles/abstract/10.5334/egems.252.

126. Austin, P.C., and **Stuart, E.A.** (2017). Estimating of the effect of treatment on binary outcomes using full matching on the propensity score. *Statistical Methods in Medical Research* 26(6): 2505-25. PMID: 26329750. http://www.ncbi.nlm.nih.gov/pubmed/26329750.

127. Jackson, J.J., Schmid, I., and **Stuart, E.A.** (2017). Propensity scores in pharmacoepidemiology: Beyond the horizon. *Current Epidemiology Reports*. Topical collection on pharmacoepidemiology. Published online 6 November 2017. http://link.springer.com/article/10.1007/s40471-017-0131-y.

128. **Lenis, D., Nguyen, T.Q., Dong, N., and **Stuart, E.A.** (2017). It's all About Balance: Propensity Score Matching in the Context of Complex Survey Data. *Biostatistics*. Published online 27 December 2017. http://academic.oup.com/biostatistics/advance-article-abstract/doi/10.1093/biostatistics/kxx063/4780267.

129. Waasdorp, T. E., Berg, J., Debnam, K. J., **Stuart, E. A.** & Bradshaw, C. P. (2017) Comparing Social, Emotional, and Behavioral Health Risks among Youth Attending Public versus Parochial Schools. *Journal of School Violence*. Published online 31 October 2017. http://www.tandfonline.com/doi/abs/10.1080/15388220.2017.1387130.

130. Donohue JM, Barry CL, **Stuart EA**, Greenfield SF, Song Z, Chernew ME, Huskamp HA. (2017). Effects of global payment and accountable care on medication treatment for alcohol and opioid use disorders. *Journal of Addiction Medicine*. Published online 20 November 2017. PMID: 29189295. http://www.ncbi.nlm.nih.gov/pubmed/29189295.

131. Raghavan, K., Riley, A.W., Volk, H., Caruso, D., Hironaka, L., Sices, L., Hong, X., Wang,

E.A. Stuart

G., Ji, Y., Brucato, M., Wahl, A., Stivers, T., Pearson, C., Zuckerman, B., **Stuart, E.A.,** Landa, R., Fallin, M.D., and Wang, X. (2017). Maternal multivitamin intake, plasma folate and vitaminB12 levels and Autism Spectrum Disorder risk in offspring. *Paediatric and Perinatal Epidemiology.* Published online 6 October 2017. PMID: 28984369. http://onlinelibrary.wiley.com/doi/10.1111/ppe.12414/full.

132. Huskamp H.A., Samples, H., Hadland, S.E., McGinty, E.E., Gibson, T.B., Goldman, H.H., Busch, S.H., **Stuart, E.A.,** and Barry, C.L. (2017). Mental Health Spending and Intensity of Service Use following Federal Parity for Individuals Diagnosed with Eating Disorders. *Psychiatric Services.* Published online 15 November 2017. PMID: 29137561. http://www.ncbi.nlm.nih.gov/pubmed/29137561.

133. Brucato, M. Ladd-Acosta, C., Li, M., Caruso, D., Hong, X., Kaczaniuk, J., **Stuart, E.A.**, Fallin, M.D., and Wang, X. (2017). Prenatal exposure to fever is associated with autism spectrum disorder in the Boston Birth Cohort. *Autism Research* 10(11): 1878-90. PMCID: PMC5685874. http://www.ncbi.nlm.nih.gov/pubmed/28799289.

134. Mayo-Wilson, E., et al. (2017). Cherry-picking by trialists and meta-analysts can drive conclusions about intervention efficacy. *Journal of Clinical Epidemiology* 91: 95-110. PMID: 28842290. http://www.ncbi.nlm.nih.gov/pubmed/28842290.

135. Joyce, N.R., Huskamp, H.A., Hadland, S.E., Donohue, J.M., Greenfield, S.F., **Stuart, E.A.,** and Barry, C.L. (2017). The Alternative Quality Contract: Impact on Service Use and Spending for Children with ADHD. *Psychiatric Services* 68(12): 1210-12. PMID: 29137554. http://www.ncbi.nlm.nih.gov/pubmed/29137554.

136. **Stuart, E.A.,** Ackerman, B., and Westreich, D. (2017). Generalizability of randomized trial results to target populations: Design and analysis possibilities. *Research on Social Work Practice.* Published online 27 July 2017. http://journals.sagepub.com/doi/abs/10.1177/1049731517720730

137. Johnston, S., Salkever, D., Ialongo, N., Slade, E., and **Stuart, E.A.** (2017). Estimating the Economic Value of Information for Screening in Disseminating and Targeting Effective School-based Preventive Interventions: An Illustrative Example. *Administration and Policy in Mental Health and Mental Health Services Research* 44(6): 932-42. PMCID: PMC5641236. http://www.ncbi.nlm.nih.gov/pubmed/28689292.

138. Rudolph, K., and **Stuart, E.A.** (2017). Using sensitivity analyses for unobserved confounding to address covariate measurement error in propensity score methods. Forthcoming in *American Journal of Epidemiology.* Published online 13 July 2017. PMID: 28992211. http://www.ncbi.nlm.nih.gov/pubmed/28992211.

139. Busch, S.H., McGinty, E.E., **Stuart, E.A.,** Huskamp, H.A., Gibson, T.B., Goldman, H.H., and Barry, C.L. (2017). Was Federal Parity Associated with Changes in Out-of-network Mental Health Care Use and Spending? *BMC Health Service Research* 17(1): 315. PMCID: PMC5414372. http://www.ncbi.nlm.nih.gov/pubmed/28464814.

140. McDonald EM, Davani A, Price A, Mahoney P, Shields W, Musci RJ, Solomon BS, **Stuart EA**, Gielen AC. (2017). Health education intervention promoting infant safe sleep in paediatric primary care: randomised controlled trial. *Injury Prevention.* Published online 22 September. PMID: 28939661. http://www.ncbi.nlm.nih.gov/pubmed/28939661.

141. **Kalb, L., **Stuart, E.A.,** Mandell, D., Olfson, M., & Vasa, R. (2017). Management of Mental

E.A. Stuart

Health Crises among Children with and without Autism Spectrum Disorder: A National Survey of Child Psychiatrists. *Psychiatric Services* 68(10): 1039-45. PMID: 28566025. http://www.ncbi.nlm.nih.gov/pubmed/28566025.

142. Mojtabai, R., **Stuart, E.A.**, Hwang, I., Eaton, W.W., Sampson, N., Kessler, R.C (2017). Long-Term Effects of Mental disorders on Marital Outcomes in the National Comorbidity Survey Ten-Year Follow-up. *Social Psychiatry and Psychiatric Epidemiology* 52(10): 1217-26. PMID: 28378065. http://www.ncbi.nlm.nih.gov/pubmed/28378065.

143. Austin, P., and **Stuart, E.A.** (2017). The performance of inverse probability of treatment weighting (IPTW) and full matching on the propensity score in the presence of model misspecification when estimating the effect of treatment on survival outcomes. *Statistical Methods in Medical Research* 26(4): 1654-70. PMCID: PMC5564952. http://www.ncbi.nlm.nih.gov/pubmed/25934643.

144. **Susukida, R., Crum, R., Ebnesajjad, C., **Stuart, E.A.**, and Mojtabai, R. (2017). Generalizability of Findings from Randomized Controlled Trials: Application to the National Institute of Drug Abuse Clinical Trials Network. *Addiction* 112(7): 1210-1219. PMCID: PMC5461185. http://www.ncbi.nlm.nih.gov/pubmed/28191694.

145. Townsend, L., Musci, R., **Stuart, E.A.**, Ruble, A., and Beadreau, M. (2017). The Association between School Climate, Depression Literacy, and Mental Health Stigma among High School Students. *Journal of School Health* 87(8): 567-74. PMCID: PMC5520658. http://www.ncbi.nlm.nih.gov/pubmed/28691174.

146. Franklin JM, Eddings W, Austin PC, **Stuart EA,** Schneeweiss S. (2017). Comparing the performance of propensity score methods in healthcare database studies with rare outcomes. *Statistics in Medicine* 36(12): 1946-63. PMID: 28208229. http://www.ncbi.nlm.nih.gov/pubmed/28208229.

147. **Stuart, E.A.,** McGinty, E.E., **Kalb, L., Huskamp, H.A., Busch, S.H., Gibson, T.B., Goldman, H., and Barry, C.L. (2017). Increased Service Use Among Children With Autism Spectrum Disorder Associated With Mental Health Parity Law. *Health Affairs* (Millwood) 36(2): 337-345. PMID: 28167724. http://www.ncbi.nlm.nih.gov/pubmed/28167724.

148. Westreich, D., Edwards, J.K., Lesko, C.R., **Stuart, E.A.,** and Cole, S.R. (2017). Transportability of trial results using inverse odds of sampling weights. *American Journal of Epidemiology* 186(8): 1010-1014. PMID: 28535275. http://www.ncbi.nlm.nih.gov/pubmed/28535275.

149. Nguyen, T.Q., Cole, S., Ebnesajjad, C., and **Stuart, E.A.** (2017). Sensitivity Analysis for an Unobserved Moderator in RCT-to-Target-Population Generalization of Treatment Effects. *The Annals of Applied Statistics* 11(1): 225-247. http://projecteuclid.org/euclid.aoas/1491616879.

150. Gibbs, H.G., McLernon, T., Call, R., Outten, K., Efird, L., Doyle, P.A., **Stuart, E.A.,** Mathioudakis, N., Glasgow, N., Joshi, A., George, P., Feroli, B., Zink, E.K. (2017). A randomized-controlled evaluation of an insulin pen storage policy. *American Journal of Health-System Pharmacy* 74: 2054-2059. PMID: 29222362. http://www.ncbi.nlm.nih.gov/pubmed/29222362.

151. Tung, G.J., Vernick, J.S., **Stuart, E.A.,** Webster, D.W., and Gielen, A.C. (2017). Federal Actions to Incentivize State Adoption of 0.08g/dl Blood Alcohol Concentration Laws. *Injury*

E.A. Stuart

Prevention 23(5):309-13. PMID: 27799290. http://www.ncbi.nlm.nih.gov/pubmed/27799290.

152. Mercer, A., Kreuter, F., Keeter, S., and **Stuart, E.A**. (2017). Theory and Practice in Non-Probability Surveys: Parallels Between Causal Inference and Survey Inference. *Public Opinion Quarterly* 81: 250-279. (With invited discussion and rejoinder). http://doi.org/10.1093/poq/nfw060.

153. **Lenis, D., Ebnesajjad, C.E., and **Stuart, E.A.** (2017). A doubly robust estimator for the average treatment effect in the context of a mean-reverting measurement error. *Biostatistics* 18(2): 325-337. w

154. **Stuart, E.A.**, Barry, C.L., Donohue, J.M., Greenfield, S.F., Duckworth, K., Song, Z., Kouri, E.M., Ebnesajjad, C., Mechanic, R., Chernew, M.E., and Huskamp, H.A. (2017). Effects of accountable care and payment reform on substance use disorder treatment: Evidence from the initial three years of the Alternative Quality Contract. *Addiction* 112(1): 124-133. PMCID: PMC5148657. http://www.ncbi.nlm.nih.gov/pubmed/27517740.

155. Ostrow, L., Penney, D., **Stuart, E.A.,** and Leaf, P.J. (2017). Web-Based Survey Data Collection with Peer Support and Advocacy Organizations: Implications of Participatory Methods. *Progress in Community Health Partnerships: Research, Education, and Action* 11(1): 45-52. PMID: 28603150. http://www.ncbi.nlm.nih.gov/pubmed/28603150.

156. Hong, H., Rudolph, K.E., and **Stuart, E.A.** (2017). Bayesian approach for addressing differential covariate measurement error in propensity score methods. *Psychometrika.* 82(4): 1078-1096. PMCID: PMC5391318. http://www.ncbi.nlm.nih.gov/pubmed/27738956.

157. **Stuart, E.A.,** Bell, S.H., Ebnesajjad, C., Olsen, R.B., and Orr, L.L. (2017). Characteristics of school districts that participate in rigorous national educational evaluations. *Journal of Research on Educational Effectiveness* 10(1): 168-206*. http://www.tandfonline.com/doi/abs/10.1080/19345747.2016.1205160.

158. **Stuart, E.A.,** and **Rhodes, A. (2017). Generalizing Treatment Effect Estimates from Sample to Population: A case study in the difficulties of finding sufficient data. *Evaluation Review* 41(4): 357-388*. PMID: 27491758. http://www.ncbi.nlm.nih.gov/pubmed/27491758.

159. **Westlund, E., and **Stuart, E.A.** (2017). The Nonuse, Misuse, and Proper Use of Pilot Studies in Experimental Evaluation Research. *American Journal of Evaluation* 38(2): 246-261. http://journals.sagepub.com/doi/abs/10.1177/1098214016651489?ai=1gvoi&mi=3ricys&af=R

160. Gorodetski, B., Chapiro, J., Schernthaner, R., Duran, R., Lin, M., Lee, H., Lenis, D., **Stuart, E.A.**, Nonyane, B.A., Pekurovsky, V., Tamrazi, A., Gebauer, B., Schlachter, T., Pawlik, T.M., and Geschwind, J.F. (2017). Advanced-stage hepatocellular carcinoma with portal vein thrombosis: conventional versus drug-eluting beads transcatheter arterial chemoembolization. *European Radiology* 27(2): 526-535. PMCID: PMC5470590. http://www.ncbi.nlm.nih.gov/pubmed/27277261.

161. Cheng, C., Zandi, P., **Stuart, E.A.**, Lin, C.H., Su, P.Y., Alexander, G.C., and Lan, T.H. (2017). Association between lithium use and risk of Alzheimer's Disease. *Journal of Clinical Psychiatry* 78(2): e139-e145. PMID: 28002662. http://www.ncbi.nlm.nih.gov/pubmed/28002662.

162. Rathbun, A.M., Yau, M.S., Shardell, M., **Stuart, E.A.**, and Hochberg, M.C. (2017).

E.A. Stuart

Depressive symptoms and structural disease progression in knee osteoarthritis: data from the Osteoarthritis Initiative. *Clinical Rheumatology* 36(1): 155-163. PMID: 27957619. http://www.ncbi.nlm.nih.gov/pubmed/27957619.

163. Birkbak, J., **Stuart, E.A.**, Lind, B.D., Qin, P., Stenager, E., Larsen, J.J., Wang, A.G., Nielsen, A.C., Pedersen, C.M., Winslov, J-H., Langhoff, C., Muhlmann, C., Nordentoft, M., and Erlangsen, A. (2016). Psychosocial therapy and causes of death after deliberate self-harm: a register-based, nationwide multicentre study using propensity score matching. *Psychological Medicine* 46(16): 3419-3427. PMID: 27654845. http://www.ncbi.nlm.nih.gov/pubmed/27654845.

164. Bell, S. H., and **Stuart, E. A.** (2016). On the "where" of social experiments: The nature and extent of the generalizability problem. In L. R. Peck (Ed.), Social experiments in practice: The what, why, when, where, and how of experimental design & analysis. *New Directions for Evaluation* 152: 47–59. http://onlinelibrary.wiley.com/doi/10.1002/ev.20212/full.

165. Rudolph, K.E., Colson, K.E., **Stuart, E.A.**, and Ahern, J. (2016). Optimally combining propensity score subclasses. *Statistics in Medicine* 35(27): 4937-4947. PMCID: PMC5096953. http://www.ncbi.nlm.nih.gov/pubmed/27426623.

166. Huskamp, H., Greenfield, S.F., **Stuart, E.A.,** Donohue, J.M., Duckworth, K., Kouri, E.M., Song, Z., Chernew, M.E., and Barry, C.L. (2016). Effects of Global Payment and Accountable Care on Tobacco Cessation Service Use: An Observational Study. *Journal of General Internal Medicine* 31(10): 1134-40. PMCID: PMC5023596. http://www.ncbi.nlm.nih.gov/pubmed/27177915.

167. **Hassan, A.N., **Stuart, E.A.**, and De Luca, V. (2016). Childhood maltreatment increases the risk of suicide attempt in schizophrenia. *Schizophrenia Research* 176(2-3):572-7. PMID: 27236409. http://www.ncbi.nlm.nih.gov/pubmed/27236409.

168. Patterson, J., **Stuart, E.A.,** and Ford, J. (2016). Use of propensity score methods to address adverse events associated with the storage time of blood in an obstetric population: a comparison of methods. *BMC Research Notes* 9: 367. PMCID: PMC4962488. http://www.ncbi.nlm.nih.gov/pubmed/27461118.

169. Westreich, D., Edwards, J.K., Rogawski, E., Hudgens, M.G., **Stuart, E.A**., and Cole, S.R. (2016). Causal impact: Epidemiological approaches for a public health of consequence. *American Journal of Public Health* 106(6): 1011-1012. PMCID: PMC4880276. http://www.ncbi.nlm.nih.gov/pubmed/27153017.

170. Lamont, A., Lyons, M.D., Jaki, T., **Stuart, E.A.**, Feaster, D.J., Tharmaratnam, K., Obserski, D., Ishwaran, H., Wilson, D.K., and Van Horn, M.L. (2016). Identification of predicted individual treatment effects in randomized clinical trials. *Statistical Methods in Medical Research*. Published online March 17, 2016. PMID: 26988928. http://www.ncbi.nlm.nih.gov/pubmed/26988928.

171. Wang CP, Lehman D, Lam YWF, Kuhn J, Mahalingam D, Weitman S, Lorenzo C, Downs JD, **Stuart EA**, Hernandez J, Thompson IM, Ramirez AG. (2016). Metformin for Reducing Racial/Ethnic Difference in Prostate Cancer Incidence for Men with Type 2 Diabetes. *Cancer Prevention Research* 9(10): 779-787. PMCID: PMC5042809. http://www.ncbi.nlm.nih.gov/pubmed/27026681.

172. Colson, K.E., Rudolph, K.E., Zimmerman, S.C., Goin, D.E., **Stuart, E.A.**, van der Laan, M.,

and Ahern, J. (2016). Optimizing matching and analysis combinations for estimating causal effects. *Scientific Reports.* Published online March 16, 2016. PMCID: PMC4793248. http://www.ncbi.nlm.nih.gov/pubmed/26980444.

173. Susukida, R., Crum, R., **Stuart, E.A.**, Ebnesajjad, C., and Mojtabai, R. (2016). Assessing Sample Representativeness in Randomized Control Trials: Application to the National Institute of Drug Abuse Clinical Trials Network. *Addiction* 111(7): 1226-1234*.* PMCID: PMC4899104. http://www.ncbi.nlm.nih.gov/pubmed/26825855.

174. George, B.J., Beasley, T.M., Brown, A.W., Dawson, J., Dimova, R., Divers, J., Goldsby, T.U., Heo, M., Kaiser, K.A., Keith, S.W., Kim, M.Y., Li, P., Mehta, T., Oakes, J.M., Skinner, A., **Stuart, E.A**., and Allison, D.B. (2016). Common Scientific and Statistical Errors in Obesity Research. *Obesity* 24: 781-790. PMCID: PMC4817356. http://www.ncbi.nlm.nih.gov/pubmed/27028280.

175. Kennedy-Hendricks A, Richey M, McGinty EE, **Stuart EA**, Barry CL, Webster DW. (2016). Opioid Overdose Deaths and Florida's Crackdown on Pill Mills. *American Journal of Public Health* 106(2): 291-297. PMID: 26691121. http://www.ncbi.nlm.nih.gov/pubmed/26691121.

176. Bell, S.H., Olsen, R.B., Orr, L.L., and **Stuart, E.A.** (2016). Estimates of external validity bias when impact evaluations select sites non-randomly. *Educational Evaluation and Policy Analysis* 38(2): 318-335. http://journals.sagepub.com/doi/abs/10.3102/0162373715617549?journalCode=epaa.

177. Rudolph, K., Sanchez, B.N., **Stuart, E.A.**, Greenberg, B., Fujishiro, K., Wand, G.S., Shrager, S., Seeman, T., Diez Roux, A.V., and Golden, S.H. (2016). Job strain and the cortisol diurnal cycle in MESA: accounting for between- and within-day variability. *American Journal of Epidemiology* 183(5): 497-506. PMCID: PMC4772437. http://www.ncbi.nlm.nih.gov/pubmed/26905339.

178. Kern, H.L., **Stuart, E.A.**, Hill, J., and Green, D.P. (2016). Assessing methods for generalizing experimental impact estimates to target populations. *Journal of Research on Educational Effectiveness* 9(1): 103-127. PMCID: PMC5030077. http://www.ncbi.nlm.nih.gov/pubmed/27668031.

179. Barry CL, **Stuart EA**, Donohue J, Greenfield S, Kouri E, Duckworth K, Song C, Mechanic R, Chernew M, Huskamp HA. (2015). The early impact of the "Alternative Quality Contract" on Mental Health Service Use and Spending in Massachusetts. *Health Affairs* 34(12): 2077-2085. PMCID: PMC4950854. http://www.ncbi.nlm.nih.gov/pubmed/26643628.

180. Mayo-Wilson, E., Hutfless, S., Li, T., Gresham, G., Fusco, N., Ehmsen, J., Heyward, J., Vedula, S., Lock, D., Haythornwaite, J., Payne, J.L., Cowley, T., Tolbert, E., Rosman, L., Twose, C., **Stuart, E.A.**, Hong, H., Doshi, P., Suarez-Cuervo, C., Singh, S., and Dickersin, K. (2015). Integrating multiple data sources (MUDS) for meta-analysis to improve patient-centered outcomes research: a protocol for a systematic review. *Systematic Reviews* 4: 143. PMCID: PMC4630908. http://www.ncbi.nlm.nih.gov/pubmed/26525044.

181. Li, P., **Stuart, E.A, and** Allison, D.B**.** (2015). Multiple imputation: A flexible tool for handling missing data. *Journal of the American Medical Association* 314(18): 1966-1967. NIHMS ID: 731701. PMCID: PMC4638176. http://www.ncbi.nlm.nih.gov/pubmed/26547468.

182. Austin, P.C., and **Stuart, E.A.** (2015). Moving towards best practice when using inverse probability of treatment weighting (IPTW) using the propensity score to estimate causal

treatment effects in observational studies. *Statistics in Medicine* 34(28): 3661-3679. PMCID: PMC4626409. http://www.ncbi.nlm.nih.gov/pubmed/26238958.

183. Mojtabai, R., **Stuart, E.A**., Hwang I., Susukida, R., Eaton, W.W., Sampson, N., and Kessler, R.C. (2015). Long-Term Effects of Mental disorders on Employment in the National Comorbidity Survey Ten-Year Follow-up. *Social Psychiatry and Psychiatric Epidemiology* 50(11): 1657-1668. PMCID: PMC4618045. http://www.ncbi.nlm.nih.gov/pubmed/26211661.

184. Austin, P.C. and **Stuart, E.A.** (2015). Optimal full matching for survival outcomes: A method that merits more widespread use. *Statistics in Medicine* 34(30): 3949-3967. PMCID: PMC4715723. http://www.ncbi.nlm.nih.gov/pubmed/26250611.

185. Rutkow, L., Chang, H-Y., Daubresse, M., Webster, D.W., **Stuart, E.A.**, and Alexander, G.C. (2015). Effects of Florida's prescription drug monitoring program and pill mill laws on opioid prescribing and use. *JAMA Internal Medicine* 175(10): 1642-1649. PMID: 26280092. http://www.ncbi.nlm.nih.gov/pubmed/26280092.

186. Mojtabai, R., Sampson, N.A., Hwang, I., Eaton, W.W., **Stuart, E.A.**, and Kessler, R. (2015). Long-Term Effects of Mental disorders on Educational Attainment In the National Comorbidity Survey Ten-Year Follow-up. *Social Psychiatry and Psychiatric Epidemiology* 50(10): 1577-1591. PMCID: PMC4964966. http://www.ncbi.nlm.nih.gov/pubmed/26082040.

187. Nguyen, T.Q., **Webb-Vargas, Y., Koning, I.M., and **Stuart, E.A.** (2015). Causal mediation analysis with a binary outcome and multiple continuous or ordinal mediators: Simulations and application to an alcohol intervention. *Structural Equation Modeling.* PMCID: PMC4855301. http://www.ncbi.nlm.nih.gov/pubmed/27158217.

188. Kohrt, B., Burkey, M., **Stuart, E.A.**, and Koirola, S. (2015). Alternative approaches for studying humanitarian interventions: propensity score methods to evaluate reintegration packages impact on depression, PTSD, and function impairment among child soldiers in Nepal. *Global Mental Health, 2.* https://doi.org/10.1017/gmh.2015.13.

189. Slade, E.P., Goldman, H.H., Dixon, L.B., Gibbons, B., and **Stuart, E.A.** (2015). Assessing the representativeness of Medical Expenditure Panel Survey inpatient utilization data for individuals with psychiatric and non-psychiatric conditions. *Medical Care Research and Review* 72(6): 736-755. PMCID: PMC4861401. http://www.ncbi.nlm.nih.gov/pubmed/26149973.

190. **Webb-Vargas, Y., Rudolph, K.E., **Lenis, D., Murakami, P., and **Stuart, E.A.** (2015). An imputation-based solution to using mismeasured covariates in propensity score analysis. Forthcoming in *Statistical Methods in Medical Research.* Published online June 2, 2015. PMCID: PMC4668240. http://www.ncbi.nlm.nih.gov/pubmed/26037527.

191. Rudolph, K., **Stuart, E.A.,** Vernick, J., and Webster, D. (2015). Association between Connecticut's Permit-to-Purchase Handgun Law and Homicides. *American Journal of Public Health* 105(8): e49-54. PMCID: PMC4504296. http://www.ncbi.nlm.nih.gov/pubmed/26066959.

192. McGinty, E.E., Busch, S.H., **Stuart, E.A.,** Huskamp, H., Gibson, T., Goldman, H.G., Barry, C.L. (2015). Federal Parity Law Associated With Increased Probability Of Using Out-Of-Network Substance Use Disorder Treatment Services. *Health Affairs* 34: 1331-1339. PMCID: PMC4607035. http://www.ncbi.nlm.nih.gov/pubmed/26240247.

E.A. Stuart

193. **Baller, J.B., **Stuart, E.A.,** McGinty, E.E., Fallin, M.D., and Barry, C.L. (2015). Students with autism served in special education: trends from 2004-2012. *Health Behavior and Policy Review* 2(3): 210-218. http://www.ingentaconnect.com/content/psp/hbpr/2015/00000002/00000003/art00005.

194. Hollm-Delgado, M-G., Piel, F., Weiss, D., Howes, R., **Stuart, E.A.**, Hay, S., and Black, R. (2015). Vitamin A supplements, routine immunization and the subsequent risk of Plasmodium infection among children under 5 years. *eLife* 4: e03925. PMCID: PMC4383226. http://www.ncbi.nlm.nih.gov/pubmed/25647726.

195. Erlangsen, A., Lind, B.D., **Stuart, E.A.,** et al. (2015). Short and long term effects of psychosocial therapy for people after deliberate self-harm: a register-based, nationwide multicentre study using propensity score matching. *Lancet Psychiatry* 2(1): 49-58. PMID: 26359612. http://www.ncbi.nlm.nih.gov/pubmed/26359612.

196. **Stuart, E.A.,** Bradshaw, C.P., and Leaf, P.J. (2015). Assessing the generalizability of randomized trial results to target populations. *Prevention Science* 16(3): 475-485. PMCID: PMC4359056. http://www.ncbi.nlm.nih.gov/pubmed/25307417

197. **Stuart, E.A.**, and Jo, B. (2015). Assessing the sensitivity of methods for estimating principal causal effects. *Statistical Methods in Medical Research* 24(6): 657-674. NIHMS 317632. PMCID: PMC3253203. http://www.ncbi.nlm.nih.gov/pubmed/21971481.

198. **Jarlenski, M.P., Bennett, W.L., Bleich, S.N., Barry, C.L., and **Stuart, E.A.** (2014). Effects of breastfeeding on postpartum weight loss among U.S. women. *Preventive Medicine* 69: 146-150. PMCID: PMC4312189. http://www.ncbi.nlm.nih.gov/pubmed/25284261

199. **Stuart, E.A.**, Huskamp, H.A., Duckworth, K., Simmons, J., Song, Z., Chernew, M., and Barry, C.L. (2014). Using propensity scores in difference-in-differences models to estimate the effects of a policy change. *Health Services & Outcomes Research Methodology* 14(4): 166-182. PMCID: PMC4267761. http://www.ncbi.nlm.nih.gov/pubmed/25530705

200. **Schuler, M.S., Leoutsakos, J., and **Stuart, E.A.** (2014). Addressing confounding when estimating the effects of latent classes on a distal outcome. *Health Services and Outcomes Research Methodology* 14(4): 232-254. NIHMSID #615439. PMCID: PMC4269287. http://www.ncbi.nlm.nih.gov/pubmed/25530706.

201. **Rudolph, K., Diaz, I., Rosenblum, M., and **Stuart, E.A.** (2014). Estimating population treatment effects from a survey sub-sample. *American Journal of Epidemiology* 180: 737-748. PMCID: PMC4172168. http://www.ncbi.nlm.nih.gov/pubmed/25190679.

202. **Chan, G.J., **Stuart, E.A.,** Zaman, M., Mahmud, A.A., Baqui, A.H., and Black, R.E. (2014). The effect of intrapartum antibiotics on early-onset neonatal sepsis in Dhaka, Bangladesh: A propensity score matched analysis. *BMC Pediatrics* 14: 104. doi: 10.1186/1471-2431-14-104. PMCID: PMC4021342. http://www.ncbi.nlm.nih.gov/pubmed/24742087.

203. **Jarlenski, M., Bennett, W., **Stuart, E.A.**, Barry, C., and Bleich, S. (2014). Effects of State Medicaid Enrollment Policies on Prenatal Smoking Cessation and Adverse Birth Outcomes. *Health Affairs* 33: 6997-1005. PMCID: PMC4248559. http://www.ncbi.nlm.nih.gov/pubmed/24889949

204. **Gross, A., Brandt, J., Bandeen-Roche, K.R., Carlson, M.C., **Stuart, E.A.**, Marsiske, M., and Rebok, G.W. (2014). Do older adults use the Method of Loci? Results from the

ACTIVE study. *Experimental Aging Research* 40(2): 140-63. PMCID: PMC3955885. http://www.ncbi.nlm.nih.gov/pubmed/24625044.

205. Green, K.M., and **Stuart, E.A.** (2014). Examining Moderation Analyses in Propensity Score Methods: Application to Depression and Substance Use. *Journal of Consulting and Clinical Psychology* 82(5): 773. PMCID: PMC4172552. http://www.ncbi.nlm.nih.gov/pubmed/24731233

206. **Pacek, L.R., Crum, R., Knowlton, A., **Stuart, E.A.**, and Latkin, C. (2014). Interest in quitting and lifetime quit attempts among smokers living with HIV infection. *Drug and Alcohol Dependence* 138: 220-224. DOI: 10.1016/j.drugalcdep.2014.02.008. PMCID: PMC4015183. http://www.ncbi.nlm.nih.gov/pubmed/24602364.

207. **Rudolph, K.E., Wand, G.S., **Stuart, E.A.**, Glass, T.A., Marques, A.H., Duncko, R., and Merikangas, K.R. (2014). The association between cortisol and neighborhood disadvantage in a U.S. population-based sample of adolescents. *Health & Place* 25:68-77. PMCID: PMC3913161. http://www.ncbi.nlm.nih.gov/pubmed/24367996.

208. **DuGoff, E.H., Bekelman, J., **Stuart, E.A.,** Armstrong, K., and Pollack, C.E. (2014). Surgical quality is more than volume: The association between changing urologists and complications for patients with localized prostate cancer. *Health Services Research* 49(4): 1165-1183. DOI: 10.1111/1475-6773.12148. PMCID: PMC4110202. http://www.ncbi.nlm.nih.gov/pubmed/24461049.

209. **Lee, G., **Stuart, E.A.,** Martins, S., and Ialongo, N. (2014). Parental monitoring trajectories and gambling among a longitudinal cohort of urban youth. *Addiction* 109(6): 977-985. DOI 10.1111/add.12399. PMCID: 4012009. http://www.ncbi.nlm.nih.gov/pubmed/24321006.

210. Hollm-Delgado, M-G., **Stuart, E.A.**, and Black, R. (2014). Acute lower respiratory infection among Bacille Calmette-Guérin (BCG) vaccinated children. *Pediatrics* 133(1): e73-81. PMID: 24379224. http://www.ncbi.nlm.nih.gov/pubmed/24379224.

211. **Tung, G., Webster, D., **Stuart, E.A.,** and Vernick, J. (2014). Political Factors Affecting the Enactment of State Level Clean Indoor Air Laws. *American Journal of Public Health* 104(6): e92-e97. PMCID: PMC4062011. http://www.ncbi.nlm.nih.gov/pubmed/24825239.

212. **Zablotsky, B., Kalb, L., Freedman, B., Vasa, R., and **Stuart, E.A.** (2014). The association between healthcare experiences and perceived financial impact among families raising a child with an autism spectrum disorder. *Psychiatric Services* 65(3): 395-398. PMCID: PMC4384426. http://www.ncbi.nlm.nih.gov/pubmed/24584528.

213. **Leacy, F., and **Stuart, E.A.** (2014). On the joint use of propensity and prognostic scores in estimation of the Average Treatment Effect on the Treated: A simulation study. *Statistics in Medicine* 33(20): 3488-3508. DOI 10.1002/sim.6030. PMCID: PMC3995901. http://www.ncbi.nlm.nih.gov/pubmed/24151187.

214. **Leis, J., Mendelson, T., **Stuart, E.A.,** and Heron, J. (2014). Associations between maternal mental health and child emotional and behavioral problems: Does prenatal mental health matter?" *Journal of Abnormal Child Psychology* 42(1): 161-171. PMID: 23748337. http://www.ncbi.nlm.nih.gov/pubmed/23748337.

215. **Rudolph, K., **Stuart, E.A.,** Merikangas, K., and Glass, T. (2014). Neighborhood disadvantage in context: the influence of urbanicity on the association between

E.A. Stuart

neighborhood disadvantage and adolescent emotional disorder. *Social Psychiatry and Psychiatric Epidemiology* 49(3): 467-475. PMID: 23754682. http://www.ncbi.nlm.nih.gov/pubmed/23754682.

216. **DuGoff, E.H., **Schuler, M., and **Stuart, E.A.** (2014). Generalizing Observational Study Results: Applying Propensity Score Methods to Complex Surveys. *Health Services Research* 49(1): 284-303. PMCID: PMC3894255.http://www.ncbi.nlm.nih.gov/pubmed/23855598.

217. **Stuart, E.A.**, **DuGoff, E., Abrams, M., Salkever, D., and Steinwachs, D. (2013). Estimating Causal Effects in Observational Studies Using Electronic Health Data: Challenges and (some) Solutions. *eGEMS (Generating Evidence & Methods to improve patient outcomes):* 1(3), Article 4. PMCID: PMC4049166. http://www.ncbi.nlm.nih.gov/pubmed/24921064.

218. **Hanna, D.B., Buchacz, K., Gebo, K.A., Hessol, N.A., Horberg, M.A., Jacobson, L.P., Kirk, G.D., Kitahata, M.M., Korthuis, P.T., Moore, R.D., Napravnik, S., Patel, P., Silverberg, M.J., Sterling, T.R., Willig, J.H., Collier, A., Samji, H., Thorne, J.E., Althoff, K.N., Martin, J.N., Rodriguez, B., **Stuart, E.A.**, and Gange, S.J. for the NA-ACCORD (2013). Association between U.S. state AIDS Drug Assistance Program (ADAP) features and HIV antiretroviral therapy initiation, 2001-2009. *PLOS ONE* 8(11): e78952. PMCID: PMC3832515. http://www.ncbi.nlm.nih.gov/pubmed/24260137.

219. Petras, H., Buckley, J.A., Leoutsakos, J-M.S., **Stuart, E.A.**, and Ialongo, N.S. (2013). The use of multiple versus single assessment time points to improve screening accuracy in identifying children at risk for later serious antisocial behavior. *Prevention Science* 14(5): 423-436. PMID: 23408279. http://www.ncbi.nlm.nih.gov/pubmed/23408279.

220. Mendelson, T., **Leis, J.A., Perry, D.F., **Stuart, E.A.,** & Tandon, S.D. (2013). Impact of a preventive intervention for perinatal depression on mood regulation, social support, and coping. *Archives of Women's Mental Health* 16(3): 211-218. PMID: 23456540. http://www.ncbi.nlm.nih.gov/pubmed/23456540.

221. Werner, R., Duey, K., Zhu, J., **Stuart, E.A.**, and Duggan, M. (2013). The patient-centered medical home: An evaluation of a single private-payer demonstration in New Jersey. *Medical Care* 51(6): 487-493. PMID: 23552431. http://www.ncbi.nlm.nih.gov/pubmed/23552431.

222. **Stuart, E.A.,** Lee, B.K., and **Leacy, F.P. (2013). Prognostic-score based balance measures for propensity score methods in comparative effectiveness research. *Journal of Clinical Epidemiology* 66: S84-S90. PMCID: PMC3713509. http://www.ncbi.nlm.nih.gov/pubmed/23849158.

223. Crum, R., Mojtabai, R., Lazareck, S., Bolton, J.M., Robinson, J., Sareen, J., Green, K.M., **Stuart, E.A.**, La Flair, L., Alvanzo, A.A.H., and Storr, C.L. (2013). A Prospective Assessment of Reports of Drinking to Self-medicate Mood Symptoms with the Incidence and Persistence of Alcohol Dependence. *JAMA Psychiatry* 70(7): 718-726. PMCID: PMC4151472. http://www.ncbi.nlm.nih.gov/pubmed/23636710.

224. Kalb, L.G., **Stuart, E.A.,** Freedman, B., **Zablotsky, B., and Vasa, R. (2012). Psychiatry-related emergency department visits among children with an Autism Spectrum Disorder. *Pediatric Emergency Care* 28(12): 1-8. PMID: 23187983. http://www.ncbi.nlm.nih.gov/pubmed/23187983.

225. **Zablotsky, B., **Stuart, E.A.**, and Bradshaw, C.P. (2013). The Association between Mental Health, Stress, and Coping Supports in Mothers of Children with Autism Spectrum Disorders. *Journal of Autism and Developmental Disorders* 43(6): 1380-1393*.* PMID 23100053. http://www.ncbi.nlm.nih.gov/pubmed/23100053.

226. Liu, W., **Kuramoto, S.K., and **Stuart, E.A.** (2013). An Introduction to Sensitivity Analysis for Unobserved Confounding in Non-Experimental Prevention Research. *Prevention Science* 14(6): 570-580. PMCID: 3800481. http://www.ncbi.nlm.nih.gov/pubmed/ 23408282.

227. Olsen, R., Bell, S., Orr, L., and **Stuart, E.A.** (2013). External Validity in Policy Evaluations that Choose Sites Purposively. *Journal of Policy Analysis and Management* 32(1): 107-121*.* NIHMS 382967. http://onlinelibrary.wiley.com/doi/10.1002/pam.21660/full.

228. Landa, R., **Gross, A., **Stuart, E.A.,** and Faherty, A. (2013). Developmental trajectories in children with and without autism spectrum disorders: The first three years. *Child Development* 84(2): 429-442*.* PMCID: PMC4105265. http://www.ncbi.nlm.nih.gov/ pubmed/23110514.

    * Paper highlighted by the Interagency Autism Coordinating Committee as one of the papers having the greatest impact on the field with regard to questions about "When should I be concerned?" http://iacc.hhs.gov/summary-advances/2013/index.shtml#question5-comparative-efficacy-leap-teacch-non-model-specific-special-education-programs-preschoolers-autism-spectrum-disorders

229. **Kuramoto, S.J., Runeson, B., Lichtenstein, P., **Stuart, E.A.**, and Wilcox, H. (2013). Time to hospitalization for suicide attempt by the timing of parental suicide during offspring early development. *JAMA Psychiatry* 70(2): 149-157. PMCID: PMC3664187. http:// www.ncbi.nlm.nih.gov/pubmed/23229861.

230. Kruse, G., Polsky, D., **Stuart, E.A.**, and Werner, R.M. (2012). The Impact of Hospital Pay-for-Performance on Hospital and Medicare Costs. *Health Services Research* 47(6): 2118-2136*.* PMCID: PMC3523367. http://www.ncbi.nlm.nih.gov/pubmed/23088391.

231. Landa, R., **Gross, A., and **Stuart, E.A.** (2012). Latent class analysis of early developmental trajectory in baby sibs of children with Autism. *Journal of Child Psychiatry & Psychology* 53(9): 986-996. PMCID: PMC3432306. http://www.ncbi.nlm.nih.gov/pubmed/ 22574686.

232. Marcus, S.M., **Stuart, E.A.**, Wang, P., Shadish, W.R., and Steiner, P.M. (2012). Estimating the causal effect of randomization versus treatment preference in a Doubly-Randomized Preference Trial. *Psychological Methods* 17(2): 244-254. PMCID: PMC3772621. http:// www.ncbi.nlm.nih.gov/pubmed/22563844.

233. **Leis, J., Heron, J., **Stuart, E.A.,** and Mendelson, T. (2012). Associations between depressive and anxious symptoms and prenatal alcohol use. *Maternal and Child Health Journal* 16(6): 1304-1311.   PMID: 21971680. http://www.ncbi.nlm.nih.gov/pubmed/ 21971680.

234. **Sahastrabuddhe, S., Gupta, A., **Stuart, E.A.**, Godbole, S., Ghate, M., Sahay, S., Gangakhedkar, R., Rishud, A., Divekar, A., Bollinger, R., and Mehendale, S.M. (2012). Sexually transmitted infections and risk behaviors among transgender (Hijras) of Pune, India. *Journal of Acquired Immune Deficiency Syndromes* 59(1): 72-78. PMID: 21937924. http://www.ncbi.nlm.nih.gov/pubmed/21937924.

235. Wang, Y., Storr, C., Green, K., Zhu, S., **Stuart, E.A**., Lynne-Landsman, S.D., Clemans, K.H., Petras, H., Kellam, S.G., and Ialongo, N.S. (2012). The Effect of Two Elementary School-based Prevention Interventions on Being Offered Tobacco and the Transition to Smoking. *Drug and Alcohol Dependence* 120(1-3): 202-208. PMID: 21868176. http://www.ncbi.nlm.nih.gov/pubmed/21868176.

236. Freedman, B.H., Kalb, L., **Zablotsky, B., and **Stuart, E.A.** (2012). Relationship Status among Parents of Children with Autism Spectrum Disorders: A Population-Based Study. *Journal of Autism and Developmental Disorders* 42(4): 539-548. PMID: 21590433. http://www.ncbi.nlm.nih.gov/pubmed/21590433.

237. Karakus, M.C., Salkever, D.S., Slade, E.P., Ialongo, N., **Stuart, E.A.** (2012). Implications of Middle School Behavior Problems for High School Graduation and Employment Outcomes of Young Adults: Estimation of a Recursive Model. *Education Economics* 20(1): 33-52. http://www.tandfonline.com/doi/abs/10.1080/09645292.2010.511816.

238. **Villanti, A.C., Cullen, J., Vallone, D.M., and **Stuart, E.A.** (2011). Use of propensity score matching to evaluate a national smoking cessation media campaign. *Evaluation Review* 35(6): 571-591. PMID: 22473492. http://www.ncbi.nlm.nih.gov/pubmed/22473492.

239. Cooley-Strickland, M., Quille, T.J., Griffin, R.S., **Stuart, E.A.**, Bradshaw, C.P., and Furr-Holden, D.M. (2011). Efectos de la Exposición de los Adolescentes a la Violencia en la Comunidad: El Proyecto MORE. (Effects of Youth's Exposure to Community Violence: The More Project). *Psychosocial Intervention* 20(2): 131—148. http://europa.sim.ucm.es/compludoc/AA?articuloId=811188.

240. Rosenberg, R.E., Landa, R.J., Law, J.K., **Stuart, E.A.,** and Law, P.A. (2011). Factors Affecting Age at Initial Autism Spectrum Disorder Diagnosis in a National Survey. *Autism Research and Treatment* Volume 2011, Article ID 874619, 11 pages. PMCID: PMC3420379. http://www.ncbi.nlm.nih.gov/pubmed/22937257. http://www.hindawi.com/journals/aurt/2011/874619/.

241. *Imai, K., Jo, B., and Stuart, E.A. (2011). Commentary: Using potential outcomes to understand causal mediation analysis. *Multivariate Behavioral Research* 46(5): 861-873. PMCID: PMC3685497. http://www.tandfonline.com/doi/abs/10.1080/00273171.2011.606743.

242. Jo, B., **Stuart, E.A.,** MacKinnon, D., and Vinokur, A.D. (2011). The use of propensity scores in mediation analysis. *Multivariate Behavioral Research* 46: 425-452. PMCID: PMC3293166. http://www.ncbi.nlm.nih.gov/pubmed/22399826.

243. **Christensen, A.L., **Stuart, E.A.,** Perry, D.F., and Le, H-N. (2011). Unintended pregnancy and perinatal depression trajectories in low-income, high-risk Hispanic immigrants. *Prevention Science* 12(3): 289-299. PMCID: PMC3742050. http://www.ncbi.nlm.nih.gov/pubmed/21537899.

244. **Lee, B., Lessler, J., and **Stuart, E.A.** (2011). Weight trimming and propensity score weighting. *PLoS ONE* 6(3): e18174. PMCID: PMC3069059. http://www.ncbi.nlm.nih.gov/pubmed/21483818.

245. Le, H-N., Perry, D., and **Stuart, E.A.** (2011). Randomized controlled trial of a preventive intervention for perinatal depression in high-risk Latinas. *Journal of Consulting and Clinical*

E.A. Stuart

Psychology 79(2): 135-141. PMID: 21319897. http://www.ncbi.nlm.nih.gov/pubmed/21319897.

246. Azur, M., **Stuart, E.A.**, Frangakis, C.M., and Leaf, P.J. (2011). Multiple imputation by chained equations: What is it and how does it work? *International Journal of Methods in Psychiatric Research* 20(1): 40-49*.* PMCID: PMC3074241. http://www.ncbi.nlm.nih.gov/pubmed/21499542.

247. Werner, R., Konetzka, T., **Stuart, E.A.**, and Polsky, D. (2011). Changes in patient sorting to nursing homes under public reporting: Improved patient matching or provider gaming? *Health Services Research* 46(2): 555-571*.* PMCID: PMC3074241. http://www.ncbi.nlm.nih.gov/pubmed/21105869.

248. Werner, R., Kolstad, J.T., **Stuart, E.A.**, and Polsky, D. (2011). The effect of pay-for-performance in hospitals: Lessons for quality improvement. *Health Affairs* 30(4): 690-698. PMID: 21471490. http://www.ncbi.nlm.nih.gov/pubmed/21471490.

249. *Ho, D.E., Imai, K., King, G., and **Stuart, E.A.** (2011). MatchIt: Nonparametric preprocessing for parametric causal inference. *Journal of Statistical Software* 42(8): 1-28*.* http://r.iq.harvard.edu/docs/matchit/2.4-19/matchit.pdf.

250. **Stuart, E.A**., Cole, S.R., Bradshaw, C.P., and Leaf, P.J. (2011). The use of propensity scores to assess the generalizability of results from randomized trials. *The Journal of the Royal Statistical Society, Series A* 174(2): 369-386. PMCID: PMC4051511. http://www.ncbi.nlm.nih.gov/pubmed/24926156.

251. Landa, R.J., Holman, K.C., O'Neill, A.H., and **Stuart, E.A.** (2011). Intervention targeting development of socially synchronous engagement in toddlers with Autism Spectrum Disorder: A randomized controlled trial. *The Journal of Child Psychology and Psychiatry* 52(1): 13-21*.* PMCID: PMC3059234. http://www.ncbi.nlm.nih.gov/pubmed/21126245.

252. **Kuramoto, S.J., **Stuart, E.A.**, Runeson, B., Lichtenstein, P., Langstrom, P., and Wilcox, H. (2010). Maternal versus Paternal Suicide and Offspring Risk of Hospitalization for Psychiatric Disorders and Suicide Attempt. *Pediatrics* 126(5): e1026-1032. PMCID: PMC3666044. http://www.ncbi.nlm.nih.gov/pubmed/20956422.

253. Werner, R., Polsky, D., and **Stuart, E.A.** (2010). Public Reporting Drove Quality Gains At Nursing Homes. *Health Affairs* 29(9): 1706-1713. PMID: 20820030. http://www.ncbi.nlm.nih.gov/pubmed/20820030.

254. **Stuart, E.A.** and Ialongo, N.S. (2010). Matching methods for selection of subjects for follow-up. *Multivariate Behavioral Research* 45(4): 746-765. PMCID: PMC3017384. http://www.ncbi.nlm.nih.gov/pubmed/21221424.

255. Green, K.M., Doherty, E.E., **Stuart, E.A.**, and Ensminger, M.E. (2010). Does Heavy Adolescent Marijuana Lead to Criminal Involvement in Adulthood? Evidence from a Multiwave Longitudinal Study of Urban African Americans. *Drug and Alcohol Dependence* 112: 117-125*.* PMCID: PMC2950879. http://www.ncbi.nlm.nih.gov/pubmed/20598815.

256. Cole, S.R. and **Stuart, E.A.** (2010). Generalizing evidence from randomized clinical trials to target populations: the ACTG-320 trial. *American Journal of Epidemiology* 172: 107-115*.* PMCID: PMC2915476. http://www.ncbi.nlm.nih.gov/pubmed/20547574.

E.A. Stuart

257. **Harder, V.S., **Stuart, E.A.**, and Anthony, J. (2010). Propensity Score Techniques and the Assessment of Measured Covariate Balance to Test Causal Associations in Psychological Research. *Psychological Methods* 15(3): 234-249. PMCID: PMC2936698. http://www.ncbi.nlm.nih.gov/pubmed/20822250.

258. **Stuart, E.A.** (2010). Matching Methods for Causal Inference: A review and a look forward. *Statistical Science* 25(1): 1-21. PMCID: PMC2943670. http://www.ncbi.nlm.nih.gov/pubmed/20871802.

259. **Lee, B., Lessler, J., and **Stuart, E.A.** (2009). Improving propensity score weighting using machine learning. *Statistics in Medicine* 29(3): 337-346. PMCID: PMC2807890. http://www.ncbi.nlm.nih.gov/pubmed/19960510.

260. Jo, B., and **Stuart, E.A.** (2009). On the use of propensity scores in principal causal effect estimation. *Statistics in Medicine* 28: 2857-2875. PMCID: PMC2757143. http://www.ncbi.nlm.nih.gov/pubmed/19610131.

261. **Stuart, E.A.**, Marcus, S.M., Horvitz-Lennon, M.V., Gibbons, R.D., and Normand, S-L.T. (2009). Using non-experimental data to estimate treatment effects. *Psychiatric Annals* 39(7): 719-728. PMCID: PMC2886294. http://www.ncbi.nlm.nih.gov/pubmed/20563313.

262. Cooley-Strickland, M., Quille, T.J., Griffin, R.S., **Stuart, E.A.**, Bradshaw, C.P., and Furr-Holden, D.M. (2009). Community violence and youth: Affect, behavior, substance use, and academics. *Clinical Child and Family Psychology Review* 12: 127-156. PMCID: PMC2700237. http://www.ncbi.nlm.nih.gov/pubmed/19472053.

263. **Stuart, E.A.**, Azur, M., Frangakis, C.E., & Leaf, P. (2009). Multiple imputation with large datasets: A case study of the Children's Mental Health Initiative. *American Journal of Epidemiology* 169(9): 1133-1139. PMCID: PMC2727238. http://www.ncbi.nlm.nih.gov/pubmed/19318618.

264. Werner, R.M., Konetzka, R.T., **Stuart, E.A.**, Norton, E.C., Polsky, D., and Park, J. (2009). The impact of public reporting on quality of postacute care. *Health Services Research* 44(4): 1169-1187. PMCID: PMC2739023. http://www.ncbi.nlm.nih.gov/pubmed/19490160.

265. **Wang, Y., Browne, D.C., Petras, H., **Stuart, E.A.**, Wagner, F.A., Lambert, S.F., Kellam, S.G., & Ialongo, N.S. (2009). Depressed Mood and the Effect of Two Universal First Grade Preventive Interventions on Survival to the First Tobacco Cigarette Smoked Among Urban Youth. *Drug and Alcohol Dependence* 100: 194-203. PMCID: PMC3425943. http://www.ncbi.nlm.nih.gov/pubmed/19059736.

266. Marcus, S.M., Siddique, J., Ten Have, T.R., Gibbons, R.D., **Stuart, E.A.**, and Normand, S-L.T. (2008). Balancing treatment comparisons in longitudinal studies. *Psychiatric Annals* 38(12): 805-811. PMCID: PMC2722117. http://www.ncbi.nlm.nih.gov/pubmed/19668351.

267. **Stuart, E.A.** and Rubin, D.B. (2008). Matching with multiple control groups and adjusting for group differences. *Journal of Educational and Behavioral Statistics* 33(3): 279-306. doi: 10.3102/1076998607306078. http://jeb.sagepub.com/content/33/3/279.short.

268. **Stuart, E.A.**, Perry, D.F., Le, H-N., & Ialongo, N.S. (2008). Estimating intervention effects of prevention programs: Accounting for noncompliance. *Prevention Science* 9(4): 288-298. PMCID: PMC2921838. http://www.ncbi.nlm.nih.gov/pubmed/18843535.

269. **Harder, V.S., **Stuart, E.A.**, & Anthony, J. (2008). Adolescent cannabis problems and young adult depression: Male-female stratified propensity score analyses. *American Journal of Epidemiology* 168: 592-601. PMCID: PMC2727198. http://www.ncbi.nlm.nih.gov/pubmed/18687663.

270. Miech, R., Azur, M., **Patterson, T., **Jowers, K., Goldstein, A.B., **Stuart, E.A.**, Walrath, C., and Leaf, P.J. (2008). The potential to reduce mental health disparities through the Comprehensive Community Mental Health Services for Children and Their Families Program. *The Journal of Behavioral Health Services & Research* 35(3): 253-264. PMCID: PMC2770375. http://www.ncbi.nlm.nih.gov/pubmed/18543110.

271. Crum, R.M., Green, K.M., Storr, C.L., Chan, Y-F., Ialongo, N., **Stuart, E.A.**, and Anthony, J.C. (2008). Depressed mood in childhood and subsequent alcohol use through adolescence and young adulthood. *Archives of General Psychiatry* 65(6): 702-712. PMCID: PMC4151267. http://www.ncbi.nlm.nih.gov/pubmed/18519828.

272. Salkever, D.S., Johnston, S., Karakus, M.C., Ialongo, N.S., Slade, E.P., and **Stuart, E.A.** (2008). Enhancing the Net Benefits of Disseminating Efficacious Prevention Programs: A Note on Target Efficiency with Illustrative Examples. *Administration and Policy in Mental Health and Mental Health Services Research.* DOI 10.1007/s10488-008-0168-9. PMCID: PMC4880029. http://www.ncbi.nlm.nih.gov/pubmed/18343990.

273. Slade, E.P., **Stuart, E.A.**, Salkever, D.S., Karakus, M., Green, K.M., and Ialongo, N. (2008). Impacts of age of onset of substance use disorders on risk of adult incarceration among disadvantaged urban youth: A propensity score matching approach. *Drug and Alcohol Dependence* 95: 1-13. PMCID: PMC2387099. http://www.ncbi.nlm.nih.gov/pubmed/18242006.

274. **Stuart, E.A.** and Green, K.M. (2008). Using full matching to estimate causal effects in non-experimental studies: Examining the relationship between adolescent marijuana use and adult outcomes. *Developmental Psychology* 44(2): 395-406*.* PMID: 18331131. http://www.ncbi.nlm.nih.gov/pubmed/18331131.

275. *Imai, K., King, G., and **Stuart, E.A.** (2008). Misunderstandings between experimentalists and observationalists about causal inference. *Journal of the Royal Statistical Society, Series A* 171: 481-502*.* http://onlinelibrary.wiley.com/doi/10.1111/j.1467-985X.2007.00527.x/full.

   On All-Time Top 10 list of downloads, Social Science Research Network, Quantitative Methods: Econometrics, Polimetrics, and Statistics Section (as of April 15, 2008). Recognized as a "New Hot Paper in Economics and Business" by Thomson Reuters for being among the most cited in those fields. http://sciencewatch.com/dr/nhp/2009/09julnhp/09julnhpImaiET/.
   * As of June 26, 2010, most cited paper published in JRSS-A in 2007-2008.

276. McConnell, S., **Stuart, E.A.**, and Devaney, B. (2008). The truncation-by-death problem: What to do in an experimental evaluation when the outcome is not always defined. *Evaluation Review* 32(2): 157-186*.* PMID: 18319423. http://www.ncbi.nlm.nih.gov/pubmed/18319423.

277. **Stuart, E.A.** (2007). Estimating causal effects using school-level data sets. *Educational Researcher* 36(4): 187-198. http://edr.sagepub.com/content/36/4/187.short.

278. *Ho, D.E., Imai, K., King, G., and **Stuart, E.A.** (2007). Matching as nonparametric preprocessing for reducing model dependence in parametric causal inference. *Political Analysis* 15(3): 199-236. http://pan.oxfordjournals.org/content/15/3/199.short.

279. Winner of Warren Miller Prize for best paper published in Volume 15 of *Political Analysis.*

280. 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/).

281. *Rubin, D.B. and **Stuart, E.A.** (2006). Affinely invariant matching methods with discriminant mixtures of proportional ellipsoidally symmetric distributions. *The Annals of Statistics* 34(4): 1814-1826. http://projecteuclid.org/euclid.aos/1162567634.

282. *Rubin, D.B., **Stuart, E.A.**, and Zanutto, E.L. (2004) A potential outcomes view of value-added assessment in education. *Journal of Educational and Behavioral Statistics* 29 (1): 103-116. http://www.jstor.org/stable/10.2307/3701308.

283. ***Stuart, E.A.** and Zaslavsky, A.M. (2002) Using administrative records to predict census day residency. In *Case Studies in Bayesian Statistics, Volume VI,* Edited by Gatsonis, C., Kass, R.E., Carriquiry, A., Gelman, A., Higdon, D., Pauler, D.K., Verdinelli, I. New York: Springer, pp. 335-349. http://www.biostat.jhsph.edu/~estuart/adrecjsm.pdf.

284. Devaney, B. and **Stuart, E.A.** (1998) Eating breakfast: Effects of the School Breakfast Program. *Family Economics and Nutrition Review* 11 (4). https://www.cnpp.usda.gov/sites/default/files/archived_projects/fenrv11n4.pdf.

Articles, Editorials, and Other Publications not peer reviewed

1. **Stuart, E.A.** and Dowdy, D. (in press). Evidence-based COVID-19 policymaking in schools. *Nature Medicine News & Views*.

2. **Stuart, E.A.,** and Lesko, K. (2020). The promise and challenges of methods to enhance the external validity of randomized trial results. *Clinical Pharmacology & Therapeutics* 108: 817-825. https://doi.org/10.1002/cpt.1992

3. Fox, M., Arah, O., and **Stuart, E.A.** (2020). The value of e-values and why they are not enough. Commentary on "Use of E-values for Addressing Confounding in Observational Studies". *International Journal of Epidemiology* 49(5): 1505-1506. https://academic.oup.com/ije/article-abstract/49/5/1505/5867248

4. Feder, K., Mojtabai, R.M., and **Stuart, E.A**. (2020). The Association between Florida's Opioid Crackdown and Opioid-Related Mortality: The Role of Economic Factors and Mortality Misclassification—Response. *American Journal of Epidemiology* 189(9): 989-899. https://academic.oup.com/aje/article-abstract/189/9/898/5741086?redirectedFrom=fulltext.

5. Reardon, S., and **Stuart, E.A.** (2019). Editors' Introduction: Education research in a new data environment: Special issue introduction. *Journal of Research on Educational Effectiveness.* Published online 06 December 2019. https://www.tandfonline.com/doi/full/10.1080/19345747.2019.1685339

6. Ackerman, B., and **Stuart, E.A.** (2020). Commentary on Yu et al.: Opportunities and challenges for matching methods in larger databases. *Statistical Science* 35(3): 367-370.

E.A. Stuart

7. Musci, R.J, and **Stuart, E.A.** (2019). Ensuring causal, not casual, inference. Invited Commentary. *Prevention Science* 20(3): 452-456. https://pubmed.ncbi.nlm.nih.gov/ 30613853/

8. 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.

9. 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.

10. 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.

11. **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

12. Kennedy-Hendricks A, Richey M, McGinty EE, **Stuart EA**, Barry CL, Webster DW. (2016). Response to Delcher et al Letter on Florida's Prescription Opioid Policy Interventions. *American Journal of Public Health* 106(6): e11-2. PMID: 27153026. http:// www.ncbi.nlm.nih.gov/pubmed/27153026.

13. **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.

    14.

15. *Sobel, M.E., and **Stuart, E.A.** (2012). Commentary on "Weighting methods for assessing policy effects mediated by policy change" by Guanglei Hong and Takako Nomi. *Journal of Research on Educational Effectiveness* 5: 290-292. http://www.tandfonline.com/doi/full/ 10.1080/19345747.2012.688461.

16. *Jo, B., and **Stuart, E. A.** (2012). Causal interpretations of mediation effects: Comment on "Principal stratification as a framework for investigating mediational processes in experimental settings" by Lindsay C. Page. *Journal of Research on Educational Effectiveness* 5: 250-253. http://www.tandfonline.com/doi/full/ 10.1080/19345747.2012.688414.

17. Parakh, K., Win, S., and **Stuart, E.A.** (2011). Mortality in women with new-onset atrial fibrillation. Letter to the Editor, *Journal of the American Medical Association* 306(11): 1200-1201. PMID: 21934050. http://www.ncbi.nlm.nih.gov/pubmed/21934050.

18. **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.

19. **Stuart, E.A.** (2008). Developing practical recommendations for the use of propensity scores: Discussion of "A critical appraisal of propensity score matching in the medical

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literature between 1996 and 2003" by Peter Austin, *Statistics in Medicine. Statistics in Medicine* 27(12): 2062-2065*.* DOI: 10.1002/sim.3207. PMID: 18286673. http://www.ncbi.nlm.nih.gov/pubmed/18286673.

20. *Cook, S.R. and **Stuart, E.A.** (2007). Discussion of Dominici et al. "Does the effect of micronutrient supplementation on neonatal survival vary with respect to the percentiles of the birth weight distribution?" *Bayesian Analysis* 1(5): 33-38. http://projecteuclid.org/DPubS/Repository/1.0/Disseminate?handle=euclid.ba/1340390059&view=body&content-type=pdf_1.

21. *Rubin, D.B. and **Stuart, E.A.** (2005). Matching with multiple control groups and adjusting for group differences. *2005 Proceedings of the American Statistical Association, Section on Health Policy Statistics* [CD-ROM]. Alexandria, VA: American Statistical Association. http://biostat.jhsph.edu/~estuart/RubinStuartJSM2005.pdf.

22. **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.

23. *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.

24. ***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. (2021). Accounting for differences in population: Predicting intervention impact at scale. In *The Scale up Effect in Early Childhood and Public Policy: Why Interventions Lose Impact at Scale and What we can do about it.* Edited by John A. List, Dana Suskind, and Lauren Supplee. New York, NY: Routledge/Taylor & Francis. Chapter 14; pp. 265-279.

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

3. 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.

4. **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.

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

E.A. Stuart

6. 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.

7. **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.

8. 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.

9. **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.

10. **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 ACTIVITIES

Practice-Related Reports

1. Global trends of mask usage in 19 million adults. October 2020. Chang, T-H., Goicoechea, E.B., Stuart, E.A., Kim, E., Morris, K., LaRocca, S., Cobb, C., Deng, X., Chiu, S., Bradford, A., and Kreuter, F. Blog posting on Social Data Science Center, University of Maryland. https://socialdatascience.umd.edu/global-trends-of-mask-usage-in-19-million-adults/

2. 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.

3. 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.

4. Student course and teacher evaluations: A report by the course and teacher evaluation working group of the Scholarship of Teaching and Learning Task Force. Association of Schools and Programs of Public Health. April 20202. https://s3.amazonaws.com/aspph-wp-production/wp-content/uploads/2020/04/2020-04-02_SoTL-CourseTeacherEvalWG_Final.pdf

5. 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.

6. 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

7. 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

8. 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

9. 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.

10. 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.

11. **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.

12. 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.

13. 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.

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

Media Dissemination

1. **Stuart, E.A.,** Darcy-Mahoney, A., Exum, N., and Raskin, S.E. (2021). A four-point plan to vaccinate America's elementary-school-age children. The Hill. November 10, 2021. https://thehill.com/opinion/healthcare/580905-a-four-point-plan-to-vaccinate-americas-elementary-school-age-children?rl=1

E.A. Stuart

2. Schenk, K., and **Stuart, E.A.** (2021). Don't let children under 12 slip through the cracks in the fight against COVID. STAT First Opinion. https://www.statnews.com/2021/08/10/dont-let-children-under-12-slip-through-the-cracks-in-the-fight-against-covid/

3. Althoff, K., and **Stuart, E.A.** (2021). Should I ask my friends if they are vaccinated? COVID-19 vaccine etiquette and considerations for all the people in your life. Published 22 June 2021. https://www.jhsph.edu/covid-19/articles/should-i-ask-my-friends-if-they-are-vaccinated.html/

4. Ranney, M., and **Stuart, E.A.** (2021). Can I give you a hug? Published 11 June 2021. CNN Opinion. https://www.cnn.com/2021/06/11/opinions/how-to-touch-after-covid-ranney-stuart/index.html

5. Limaye, R., Kirk Sell, T., and **Stuart, E.A.** (2021). How can I talk to my friends and family about getting vaccinated for COVID-19? Published 6 May 2021. https://www.jhsph.edu/covid-19/articles/how-can-i-talk-to-my-friends-and-family-about-getting-vaccinated-for-covid19.html

6. Veldhuis, C., **Stuart, E.A.,** and Fallin, M.D. (2021). Five Urgent Public Health Policies to Combat the Mental Health Effects of COVID-19. *Health Affairs Blog.* https://www.healthaffairs.org/do/10.1377/hblog20210122.959001/full/

7. Murray, L., Althoff, K., and **Stuart, E.A**. (2020). How to "reach in" to meaningfully connect with loved ones from afar. Published 16 November 2020. https://www.jhsph.edu/covid-19/articles/how-to-reach-in-to-meaningfully-connect-with-loved-ones-from-afar.html

8. **Stuart, E.A.,** and Althoff, K. (2020). How to make decisions about winter holiday gatherings amid COVID-19. Published 10 November 2020. https://www.jhsph.edu/covid-19/articles/decisions-about-winter-holiday-gatherings.html

9. Althoff, K., and **Stuart, E.A.** (2020). Innovating holiday and winter gatherings in the time of COVID-19. Published 15 October 2020. https://www.jhsph.edu/covid-19/articles/innovative-holiday-and-winter-gatherings-in-the-time-of-covid-19.html

10. 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

11. **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

12. **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/

E.A. Stuart

Podcasts

1.   Can you ask someone if they're vaccinated? The Quicky: Mamamia Podcasts. September 28, 2021. https://www.mamamia.com.au/podcasts/the-quicky/how-to-ask-if-someone-is-vaccinated/

2.   The back-to-school episode. (with Keri Althoff). Public Health On Call. August 16, 2021. https://johnshopkinssph.libsyn.com/359-the-back-to-school-episode

3.   Does in-person schooling put families at risk of COVID-19? (with Justin Lessler). Public Health on Call. May 19, 2021. https://johnshopkinssph.libsyn.com/320-does-in-person-schooling-put-families-at-risk-of-covid-19

4.   Making safe decisions during the race of "infections vs. injections." (with Keri Althoff). Public Health on Call. April 15, 2021. https://johnshopkinssph.libsyn.com/296-making-safe-decisions-during-the-race-of-infections-vs-injections

5.   Considering holiday travel during COVID-19. (with Keri Althoff). Public Health on Call. December 7, 2020. https://johnshopkinssph.libsyn.com/215-considering-holiday-travel-during-covid-19

6.   Thinking through the fall and winter holidays during COVID-19: Innovative ways to gather and celebrate. (with Keri Althoff). Public Health on Call. October 15, 2020. Contributed to Public Health on Call receiving a Council for Advancement and Support of Education (CASE) Circle of Excellence Award. https://johnshopkinssph.libsyn.com/180-thinking-through-the-fall-and-winter-holidays-during-covid-19-innovative-ways-to-gather-and-celebrate

7.   How families can make decisions around summer activities during COVID-19. (with Keri Althoff). Public Health On Call. June 24, 2020. https://johnshopkinssph.libsyn.com/101-how-families-can-make-decisions-around-summer-activities-during-covid-19

8.   How the experts are dealing with COVID-19 in their personal lives. (with Keri Althoff). Public Health On Call. March 31, 2020. https://johnshopkinssph.libsyn.com/how-the-experts-are-dealing-with-covid-19-in-their-personal-lives

9.   Evening the (propensity) score. The Podcast @ DC. January 10, 2020. https://soundcloud.com/user-768286365/evening-the-propensity-score

10.   Special co-host Liz Stuart. The Effort Report. November 20, 2017. https://effortreport.libsyn.com/60-special-co-host-liz-stuart

11.   Ignore the job description (A case study). The Effort Report. July 17, 2017. https://effortreport.libsyn.com/47-ignore-the-job-description-a-case-study

Presentations to policy-makers, communities, and other stakeholders

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

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

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

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

5. "Recent advances in missing data methods: Imputation and Weighting". U.S. Department of Health and Human Services, Maternal and Child Health Bureau, Epidemiology Training Program Webinar, September 2012 (20 attendees).

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

7. "Analysis methods for enhancing external validity." Invited speaker at two-day meeting on external validity, Office of Planning, Research, and Evaluation, Administration for Children and Families, Department of Health and Human Services, Washington, DC, 2014.

8. "Using propensity scores in difference-in-difference models to estimate causal effects." Invited speaker at Center for Medicare & Medicaid Innovation, Centers for Medicare & Medicaid Services, Baltimore, MD, 2015

9. "Propensity score methods: The why, what and how." One-day short course at Center for Medicare & Medicaid Innovation, Centers for Medicare & Medicaid Services, Baltimore, MD, 2015.

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

11. "Overview of Panel Report: Research methodologies and statistical approaches to understanding driver fatigue factors in motor carrier safety and driver health." Briefing to the Federal Motor Carrier Safety Administration, U.S. Department of Transportation, Washington, DC, 2016.

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

13. "Tutorial on propensity score methods." Invited tutorial at the Office of Biometrics, Center for Drug Evaluation and Research (CDER), Food and Drug Administration (FDA), July 2016.

14. "Methods for assessing the generalizability of randomized trials to target populations." One-day short course at Institute of Education Sciences, US Department of Education, December 2017.

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

16. Moderator, Panel on Exploring whether a synthetic control arm can be derived from historical clinical trials that match baseline characteristics and overall survival outcome of a randomized control arm: Case study in non-small cell lung cancer. Friends of Cancer Research Annual Meeting. November 2018.

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

E.A. Stuart

18. "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)]

Media Appearances or Quotations

ABC News (print)

Australian Broadcasting Company (ABC; TV)

The Associated Press

Bloomberg News (radio and TV)

CBS News (print)

Gizmodo

Huffington Post

Kaiser Health News

The New York Times

The Philadelphia Inquirer

Politico

ProPublica

Reuters

Tech and Learning

USA Today

US News and World Report

The Wall Street Journal

WebMD

Wired

WTOP news (radio)

E.A. Stuart

CURRICULUM VITAE

Elizabeth A. Stuart

PART II

TEACHING

Academic Advisees

Valerie Harder	PhD, Mental Health	2008

Cannabis use and depression: Demystifying propensity score techniques
Current Position: 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

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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, Health Policy and Management 2020

Ting-Hsuan Chang   ScM, Biostatistics   2021

Lucy Qiao   MHS, Biostatistics   2021
                             (Concurrent with PhD in Epidemiology)

Natalya Kostandova   MHS, Biostatistics
                             (Concurrent with PhD in Epidemiology)

Elizabeth Sarker   PhD, Biostatistics

Leon DiStefano (joint advisor)   PhD, Biostatistics

Ian Schmid   PhD, Mental Health

Carly Lupton-Smith   PhD, Biostatistics

Post-doctoral fellows

E.A. Stuart

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

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

Esita Patel (co-advisor, Brendan Saloner)   2019-

Keisha Solomon (co-advisor, Brendan Saloner)   2019-

Noah Greifer   2020-2021

Joseph Kush (co-advisor, Rashelle Musci)   2021-

Jason Gibbons (co-advisor, Brendan Saloner)   2021 -

Samantha Harris (co-advisor, Brendan Saloner)   2021-

Yongqi Zhong (co-advisor, Bryan Lau)   2021-

Nick Seewald (co-advisor, Beth McGinty)   2021-

MPH Advisees
Sushant Sahastrabuddhe   2009-2010
Pamela Trangenstein   2012-2014

Noor Qaragholi   2021-

MPH Capstone Advisee
    Sushant Sahastrabuddhe   2010
    Haley Gibbs   2015
    Ahmed Hassan   2016
    Siva Mulpuru   2020
    Michael Yan   2020

Master's Thesis Reader
    Keri Calkins, Epidemiology   2014
    Lu Shen, Biostatistics   2014
    Katherine Freeland, Biostatistics   2015

Preliminary Oral Exam 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
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

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Jeffrey Duong	Mental Health	2013
Barbara Condliffe	Sociology	2013
Kari Weber	Epidemiology	2013
Parichoy Pal Choudhury	Biostatistics	2013
Eric Roberts	Health Policy and Management	2013
Siri Warkentian	Sociology	2013
Julia Baller	Health Policy and Management	2013
Claudia Salzberg	Health Policy and Management	2014
Alene Kennedy Hendricks	Health Policy and Management	2014
Samira Soleimanpour	Population, Family, and Reproductive Health	2014
Katharine Shelley	International Health	2015
Luke Kalb	Mental Health	2016
Ryan Andrews	Mental Health	2016
Hillary Samples	Health Policy and Management	2016
Taruja Kamarker	Health Policy and Management	2016
Sachini Bandara	Health Policy and Management	2016
Lyndsey Ferris	Health Policy and Management	2017
Alex McCourt	Health Policy and Management	2017
Alex Secora	Epidemiology	2017
Prosenjit Kundu	Biostatistics	2018
Margaret (Jean) Flores	Health Policy and Management	2018
Bingkai Wang	Biostatistics	2018
Rheanna Platt	Graduate Training Program in Clinical Investigation	2018
Amelie Hecht	Health Policy and Management	2018
Molly Francis	Health Policy and Management	2018
Julia Burgdorf	Health Policy and Management	2018
Kayla Tormohlen	Mental Health	2019
Geoff Kahn	Mental Health	2019
Curtis Leung	Health Policy and Management	2019
Bonnie Smith	Biostatistics	2019
Daniel Antiporta	Epidemiology	2019
Sherri-Chanelle Breighthaupf	Mental Health	2019
Debra Bozzi	Health Policy and Management	2019
Trang Nguyen	Biostatistics	2020
Kayte Andersen	Epidemiology	2020
Brendan Rabideau	Health Policy and Management	2020
Natalya Kostandova	Epidemiology	2021
Courtney Nordeck	Mental Health	2021
Leeya Correll	Population Familiy and Reproductive Health	2021

Final Oral Exam Participation (PhD or DrPH)

Erin McDonald	Health, Behavior, and Society	2007
Xianbin Li	Biostatistics	2008
Chanelle Howe	Epidemiology	2009
Suzanne Goodwin	Health, Policy and Management	2009
Brian Lee	Epidemiology	2009

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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

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Amelie Hecht	Health Policy and Management	2020
Kayla Tormohlen	Mental Health	2020
Molly Francis	Health Policy and Management	2020
Imke Mayer	EHESS, Ecole Polytechnique	2021
Debra Bozzi	Health Policy and Management	2021
Geoff Kahn	Mental Health	2021
Trang Nguyen	Biostatistics	2021

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

Year	Course/Description	Enrollment
2008 -	Estimating causal effects in medicine and public health Dept. of Biostatistics 140.664	50 - 120

E.A. Stuart

(Onsite and online)

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 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

E.A. Stuart

"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

Title	Agency	Level	Budget Amount
Data integration for causal inference In behavioral health (7/1/2020-6/30/2025) T32MH122357	NIMH	NA	$1,217,290
RAPID: Evaluating the impact of COVID-19 on labor market, social, and mental health outcomes (2028683)	NSF	1%	$200,000

E.A. Stuart

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

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

Co-investigator

Title	Grant Number	PI	Agency
Studying how state and local health Services delivery policies can mitigate	R01DA049789	McGinty	NIDA

The effects of disasters on drug addiction
Treatment and overdose: A mixed methods
Study of COVID-19
8/1/2021-5/20/2025; $1,727,672 (directs)

State Medical Cannabis Laws, Chronic Pain, and Opioids: A Mixed-Methods Approach	R01DA049789	McGinty	NIDA
Using licensure authority to increase access to medications for opioid use disorder in specialty treatment		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

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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 Classroom Management Techniques		Bradshaw	IES

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(JHSPH PI: Ialongo)

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

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Johns Hopkins University
>Vivien Thomas Scholars Initiative Working Group, 2021 -
>JHU Student Services Excellence Initiative Governing Council, 2020 - 2021
>JHU Teaching Academy Advisory Council, 2019 -
>Biomedical Workforce Taskforce, 2018 - 2019
>Johns Hopkins University inHealth Methodology Working Group, 2013-2015
>PhD Innovation Initiative Review Committee, 2013

PRESENTATIONS
Invited talks at scientific meetings

Using administrative records to predict Census day residency.
- Joint Statistical Meetings, Atlanta, GA, 2001.

Choosing well matched historical patients to supplement a randomized clinical trial.
- New England Statistics Symposium, Harvard University, Cambridge, MA, 2004.

Matching with multiple control groups and adjusting for differences between the groups.
- Joint Statistical Meetings, Minneapolis, MN, 2005.
- Mid-Atlantic causal inference workshop, Columbia University, New York, NY, 2005.

Estimating causal effects using school-level datasets.
- National Academy of Sciences Board on Testing and Assessment's Symposium on the Use of School-level Data, Washington, DC, 2005.

Dealing with control group dropout: Using historical patient information to supplement a randomized trial.
- Joint Statistical Meetings, Salt Lake City, UT, 2007.

Causal inference in education research.
- American Educational Research Association Dissertation Grants Conference, 2007.

Practical issues in implementing multiple imputation.
- Association for Public Policy Analysis and Management Annual Research Meeting, Washington, DC, 2007.

Discussion of "Is regression adjustment supported by the Neyman model for causal inference?" (P. Schochet).
- Association for Public Policy Analysis and Management Annual Research Meeting, Washington, DC, 2007.

Defining baseline using propensity score matching: Application to a clinical trial.
- International Conference of Health Policy Statistics, Philadelphia, PA, 2008.
- Sixth annual American Statistical Association Connecticut Chapter Mini-Conference on Applied Causal Inference, 2008.

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

E.A. Stuart

- 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.

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Advances and challenges in propensity score matching. (Invited discussant)
- Society for Research on Educational Effectiveness Spring 2013 Conference, Washington, DC, 2013.

Strategies for dealing with covariate measurement error in propensity scores.
- Society for Research on Educational Effectiveness Spring 2013 Conference, Washington, DC, 2013.
- Joint Statistical Meetings, Boston, MA, 2014

Statistical methods for assessing and enhancing external validity of randomized experiments.
- AcademyHealth Annual Research Meeting, Baltimore, MD, 2013.
- Association for Psychological Science Annual Meeting, Washington, DC, 2013.
- Health Services Research Network, The Health Foundation, London, UK, 2014

Methods for assessing sensitivity to unobserved confounding in non-experimental studies.
- AcademyHealth Annual Research Meeting, Baltimore, MD, 2013.

Identifying Elements of Your Intervention that Generate Positive Impacts: Methodological Progress for Experimental Research. (Invited discussant)
- Office of Planning, Research, and Evaluation, Administrative for Children & Families, U.S. Department of Health and Human Service, Welfare Research and Evaluation Conference, Washington, DC, 2013.

Innovations in Propensity Score Methods for Addressing New Causal Questions in Observational Studies. (Invited discussant)
- Joint Statistical Meetings, Montreal, Canada, 2013.

Model Selection and Uncertainty in Causal Effect Estimation. (Invited discussant)
- Joint Statistical Meetings, Montreal, Canada, 2013.

Using propensity scores and difference-in-differences methods to estimate the effects of mental health parity.
- International Conference on Health Policy Statistics, Chicago, IL, 2013.

Statistical methods for data synthesis. (Invited discussant)
- International Conference on Health Policy Statistics, Chicago, IL, 2013.

Assessing external validity: A discussion of setting standards. (Roundtable leader)
- American Evaluation Association Annual Meeting, Washington, DC, 2013.

Reweighting methods for generalizing results from RCTs.
Propensity score methods for estimating causal effects
- National Academy of Sciences Meeting on Observational Studies, for the National Institute of Aging, 2014.
- Society for Epidemiologic Research Annual Meeting, Seattle, WA, 2014.

Assessing methods for generalizing experimental impact estimates to target samples
- Atlantic Causal Inference Conference, Brown University, 2014

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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.

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Discussion, Collecting comprehensive and representative input
- US Food and Drug Administration Stakeholder Meeting, December 2017.

Invited moderator, Session on use of historical patient data in single arm trials
- Friends of Cancer Research Annual Meeting, Washington, DC, October 2018.

Consequences of effect heterogeneity when predicting site-level impacts
- US Department of Education PI's meeting, Washington, DC, January 2019.

Confounding? Assumptions? Huh? Mediation analysis in the psychology and psychiatry literature.
- University of Florida Department of Statistics meeting on Causality and Mediation, Gainesville, FL, January 2019.

Propensity score methods for estimating policy effects
- Society for Epidemiologic Research webinar (> 150 attendees); March 2019

Opportunities for, and complexities of, using real world data
- NISS/Merck Webinar meet-up (> 320 attendees); April 2019

Data and methods for estimating the effects of state opioid policies
- National Academies of Science Engineering and Medicine; Committee on Applied and Theoretical Statistics; June 2019

Discussion: Evaluating strategies to reduce gun violence
- National Institute of Statistical Sciences Ingram Olkin Statistics Serving Society (S3) Forum; June 2019

Keynote Speaker, Assessing and enhancing the external validity of randomized trials
- Australasia Epidemiologic Association Annual Meeting, Brisbane, Australia; October 2019

The landscape for evaluation of programs and policies to reduce the consequences of the opioid epidemic
- International Conference on Health Policy Statistics, San Diego, January 2020

Invited discussant, "Leveraging existing data on the opioid epidemic to quantify risk and inform policy"
- International Conference on Health Policy Statistics, San Diego, January 2020

Statistical questions, and challenges, for estimating the effects of opioid-related policies and programs
- International Conference on Health Policy Statistics, San Diego, January 2020

The use of synthetic control and other covariate adjustment strategies for policy evaluation
- International Conference on Health Policy Statistics, San Diego, January 2020

Accounting for differences in population: Predicting intervention impact at scale

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- Society for Prevention Research, virtual conference, June 2021

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

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.
- 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.

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Combining experimental and population data: Moving towards external validity.
* Banff International Research Station Workshop on Causal Inference, Banff, Canada, 2009.

Estimating mediation using propensity score matching.
* Society for Prevention Research Annual Meeting, Washington, DC, 2009.

Balance metrics for propensity score methods.
* Joint Statistical Meetings, Miami Beach, FL, 2011.

Using multiple imputation – external calibration for propensity score estimation in the presence of covariate measurement error
* Society for Research in Educational Effectiveness Annual Meeting, March 2013
* National Council on Measurement in Education Annual Meeting, April 2014
* Society for Prevention Research Annual Meeting, May 2015

Bayesian approaches for handling differential covariate measurement error in propensity score methods
* International Biometrics Society Conference, Florence, Italy, July 2014

Invited Discussant, Session on Integrative Data Analysis
* Gerontological Society of America, Washington, DC, November 2014

Keynote speaker, Causal inference
* University of Umea Winter Conference in Statistics, Borgafjall, Sweden, March 2015

Combining Propensity Score Methods and Complex Survey Data to Estimate Population Treatment Effects.
* Society for Research on Educational Effectiveness Annual Meeting, Washington, DC, March 2016

Invited Discussant, Recent advances in matching methods for non-experimental studies
* Joint Statistical Meetings, Chicago, IL, July 2016

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

Keynote speaker, Moving towards external validity: Methods for assessing the generalizability of randomized trial results to target populations
* ActStat Annual Meeting, Chicago, IL, August 2016

Using historical patient data to estimate population treatment effects
* ENAR Spring Meeting, International Biometric Society, Washington, DC, March 2017

Mediation analyses to examine behavioral interventions
* Association for Behavioral and Cognitive Therapies, online, November 2020

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Using stacked comparative interrupted time series methods for opioid policy evaluation
- ENAR Spring Meeting, International Biometric Society, virtual, March 2021

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.

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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 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://

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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

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- Department of Statistics, University of Pennsylvania Wharton School of Business, December 2016

Using propensity scores with complex survey data
- National Center for Health Statistics, Hyattsville, MD, 2015
- Westat, Rockville, MD, 2015

Confronting unobserved confounding by using sensitivity analyses in non-experimental studies in education and health policy
- Mathematica Policy Research, Inc., Washington, DC, 2015

Using administrative data to estimate causal effects
- The Health Foundation, London, England, 2015

Using synthetic control groups to estimate the effects of policy changes
- Mathematica Policy Research, Inc., Washington, DC, 2015

Why should we care about who enrolls in a randomized trial? Assessing and enhancing the generalizability of trials to target populations
- Johns Hopkins Medicine Department of Psychiatry Research Conference, October, 2016

Assessing and enhancing the generalizability of randomized trials to target populations
- Dartmouth College, Hanover, NH, October 2016
- Harvard University Institute for Quantitative Social Science, Cambridge, MA, March 2017
- Melbourne School of Population and Global Health, Melbourne, Australia, November 2017

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

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

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Introduction to propensity score methods
- National Cancer Institute, April 2018

The opportunities, and challenges, in policy evaluation during the COVID-19 pandemic
- Brown University Data Science Institute Decoding Pandemic Data seminar, virtual, October 2020
- London School of Economics Department of Statistics, virtual, February 2021

Measuring population-level mental health during the COVID-19 pandemic
- Oxford University Center for Evidence-Based Intervention, Department of Social Policy and Intervention, Effects of COVID-19 on social and behavioral outcomes seminar series, virtual, October 2020

The role of data science in policy evaluation during the COVID-19 pandemic
- International Program in Survey and Data Science, CONNECT Annual Meeting, virtual, June 2021

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

E.A. Stuart