

Louisa H. Smith

CONTACT INFORMATION	Harvard T.H. Chan School of Public Health Department of Epidemiology Program in Population Health Sciences 677 Huntington Ave Boston, MA 02115	louisa_h_smith@g.harvard.edu www.louisahsmith.com Google Scholar Publons (207) 653 - 4318 (cell)
EDUCATION	Harvard T.H. Chan School of Public Health , Boston, MA PhD Candidate, Population Health Sciences <ul style="list-style-type: none">• Field of Study: Epidemiology• Concentration: Epidemiologic Methods• Completed requirements for concurrent SM in Biostatistics University of California, Berkeley , Berkeley, CA MS, Epidemiology Brown University , Providence, RI AB, Comparative Literature and Community Health	2016 – present 2014 – 2016 2007 – 2011
AWARDS	Bok Center Certificate of Distinction in Teaching (×2) Ralph & June Catalano Award Scholarship Reshetko Scholarship U.C. Berkeley Graduate Division Block Grant Phi Beta Kappa Magna cum laude, Brown University departmental honors C.V. Starr Fellowship for Public Service	2017, 2018 2015 2014 2014 2011 2011 2008
PEER-REVIEWED PUBLICATIONS	[1] Smith L.H. & VanderWeele T.J. (2020). Simple sensitivity analysis for control selection bias. <i>Epidemiology</i> , accepted. [Research letter] [2] Smith L.H. & VanderWeele T.J. (2019). Mediation E-values: Approximate sensitivity analysis for unmeasured mediator-outcome confounding. <i>Epidemiology</i> , 30(6), 835-837. [3] Smith L.H. & VanderWeele T.J. (2019). Bounding bias due to selection. <i>Epidemiology</i> , 30(4), 509-516. [4] Cohen, A.K., Richards, T., Allen, B.L., Ferrier, Y., Lees, J., & Smith, L.H. (2017). Health issues in the industrial port zone of Marseille, France : The Fos EPSEAL community-based cross-sectional survey. <i>Journal of Public Health</i> , 26(2), 235-243. [5] Deardorff, J., Smith, L.H. , Petitto, L., Kim, H., & Abrams, B.F. (2017). Maternal prepregnancy weight and children's behavioral and emotional outcomes. <i>American Journal of Preventive Medicine</i> , 53(4), 432-440.	
IN PROGRESS	[1] Farland L.V., Correia K.F.B., Dodge L.E., Modest A.M., Williams P.L., Smith L.H. , Toth T.L., Hacker M.R., Missmer S.A. Mediation Analyses in Reproductive Health: A Primer. <i>Under review</i> .	

- CONFERENCE PRESENTATIONS & WORKSHOPS
- [1] E-values, unmeasured confounding, measurement error, and selection bias. Society for Epidemiologic Research (SER). Boston, MA, June 16, 2020 (planned). *Pre-Conference Workshop, with Maya Mathur.*
 - [2] Simple sensitivity analysis for selection bias. Society for Epidemiologic Research (SER). Minneapolis, MN, June 20, 2019. *Concurrent Contributed Session Oral Presentation.*
 - [3] E-values, unmeasured confounding, measurement error, and selection bias. Society for Epidemiologic Research (SER). Minneapolis, MN, June 18, 2019. *Pre-Conference Workshop, with Tyler VanderWeele.*
- INVITED TALKS & LECTURES
- [1] MPH 677: Regression Models in the Health Sciences, University of Southern Maine. April 14, 2020 (planned).
 - [2] “Data Gets Personal.” RLadies Boston, January 29, 2020.
 - [3] “Simple Sensitivity Analysis for Selection Bias.” Koenen trauma epidemiology research group, Harvard T.H. Chan School of Public Health. December 4, 2019.
 - [4] “Simple Sensitivity Analysis for Selection Bias.” Department of Medical Epidemiology and Biostatistics student seminar, Karolinska Institute. November 12, 2019.
 - [5] “Simple Sensitivity Analysis for Selection Bias.” Monthly methods call, Vaccine Safety Datalink. September 12, 2019.
 - [6] PHTH 5202: Epidemiology, Northeastern University. September 26 & October 10, 2017.
- POSTERS
- [1] **Smith L.H.** & Zaidi J. Identifying direct effects of in vitro fertilization on placental disease. Harvard T.H. Chan School of Public Health Poster Day. Boston, MA, April 25, 2019. **Runner-up: Best graduate student poster.**
 - [2] **Smith L.H.**, Deardorff J., Petito L., Kim H., & Abrams B.F. Maternal prepregnancy weight and children’s behavioral and emotional outcomes. Society For Research in Child Development (SCRD). Austin, TX, April 8, 2017.
 - [3] **Smith L.H.**, Petito L., Cohen A., Deardorff J., & Abrams B. Gestational weight gain and math and reading achievement among U.S. children. Society for Pediatric and Perinatal Epidemiologic Research (SPER). Miami, FL, June 20, 2016.
- SOFTWARE/ ONLINE TOOLS
- [1] **Smith L.H.** (2019). Simple sensitivity analysis for selection bias. *Online tool available at <http://selection-bias.louisahsmith.com>.*
 - [2] Mathur M.B., Ding P., **Smith L.H.**, & VanderWeele T.J. (2019). EValue: Sensitivity Analyses for Unmeasured Confounding or Selection Bias in Observational Studies and Meta-Analyses. *R Package.*
 - [3] **Smith L.H.** (2018). PHS Summer Prep. *Online introduction to R, probability, and statistics for incoming PhD students available at bit.ly/phs-prep.*

TEACHING
EXPERIENCE**Harvard T. H. Chan School of Public Health, Boston, MA**

- Introduction to R (instructor) Fall 2019
- Quarter-long course to help epidemiology graduate students develop data management and analysis skills in R
 - Developed course materials to scaffold new R concepts (bit.ly/intro-to-R-HSPH)
 - Graphics, manipulating data, writing functions
- Introduction to Epidemiology (co-instructor) Summer 2019
- Three-week course for undergraduate students in the Summer Program in Biostatistics & Computational Biology
 - Epidemiologic thinking and causal inference, study design, biases
- EPI 207: Advanced Epidemiologic Methods (head teaching fellow) Fall 2018, 2019
- Required course for epidemiology PhD students
 - Held office hours, graded exams and problem sets, managed course logistics
 - Causal inference for time-varying exposures: g-formula, marginal structural models, g-estimation of structural nested models; static and dynamic treatment regimes
- PHS 2000: Quantitative Research Methods (teaching fellow) Fall 2017, 2019;
Spring 2018
- Year-long required course for first-year PhD students
 - Taught lab sections, held office hours, wrote exams and problem sets
 - Created supplementary materials for summer preparation (bit.ly/phs-prep) and learning R programming (bit.ly/R-OH)
 - Regression models, sampling, longitudinal and multilevel analysis, time-varying confounding, mediation and interaction, econometric methods, missing data

University of California, Berkeley, Berkeley, CA

Graduate Student Instructor

- PH 150A: Introduction to Epidemiology and Human Disease Spring 2016
- Advanced undergraduate course
 - Taught 3 weekly 1-hour sections
 - Basic epidemiologic methods, overview of epidemiology of diseases/conditions of public health importance
- PH 250A: Epidemiologic Methods Fall 2015
- Introductory graduate-level course
 - Taught weekly 2-hour section
 - Study design, sampling, data collection, analysis, inference

OTHER

Ad-hoc reviewer: *Epidemiology, Paediatric and Perinatal Epidemiology*
 Member, Society for Epidemiologic Research
 Tutor, Harvard Bureau of Study Counsel Peer Tutoring Department of Epidemiology
 Co-chair, Harvard T.H. Chan Student Epidemiologic Methods Forum
 Magistrate, John Graunt Society (Harvard epidemiology doctoral student group)

OTHER **Little Wound School, Kyle, SD**

PROFESSIONAL Elementary school teacher 2011 – 2014

EXPERIENCE

- 3rd grade teacher of 10-20 students
- Taught reading, writing, math, science, social studies
- Lesson planning, curriculum mapping, analysis of student progress