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- [5] *Wu TT, Steiger G, **Smith L**, Devlin JW, Slooter AJC. Research letter: Clonidine is associated with faster first resolution of incident ICU delirium than antipsychotics. *Journal of Critical Care*. 2024; 79:154433. doi:[10.1016/j.jcrc.2023.154433](https://doi.org/10.1016/j.jcrc.2023.154433).
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- [9] *Wong CN, Wilczek MP, **Smith LH**, Bosse JD, Richard EL, Cavanaugh R, Manjourides J, Orkaby AR, Olivieri-Mui B. Frailty among sexual and gender minority older adults: The All of Us database. *The Journals of Gerontology: Series A*. 2023; 78(11):2111–2118. doi:[10.1093/gerona/glad149](https://doi.org/10.1093/gerona/glad149).
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[28] **Smith LH.** Selection mechanisms and their consequences: Understanding and addressing selection bias. *Current Epidemiology Reports*. 2020; 7(4):179–189. doi:[10.1007/s40471-020-00241-6](#).

[29] **Smith LH,** VanderWeele TJ. Bounding bias due to selection. *Epidemiology*. 2019; 30(4):509–516. doi:[10.1097/ede.0000000000001032](#).

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PRE-PRINTS

[1] Sun S, Lomachinsky V, **Smith LH,** Newhouse JP, Westover MB, Blacker D, Schwamm L, Haneuse S, Moura LMVR. [Benzodiazepine initiation and the risk of falls or fall-related injuries in older adults following acute ischemic stroke](#). 2024.

[2] *Williams MP, Manjourides J, **Smith L,** Rainer CB, Hightow-Weidman LB, Haley DF. [Digital intervention engagement mediates the relationship between intrapersonal measures and pre-exposure prophylaxis adherence: A secondary analysis of a randomized controlled trial of sexual orientation and gender minority youth on pre-exposure prophylaxis](#). 2024.

* indicates mentee first author

AWARDS

Harvard Biostatistics Certificate of Distinction in Teaching	2020
Harvard Epidemiology Teaching Assistant Award	2020
Winner, Harvard Epidemiology Student Podcast Competition	2020
Bok Center Certificate of Distinction in Teaching (×3)	2017, 2018, 2019
Runner-up, Harvard T.H. Chan School Poster Day	2019
Ralph & June Catalano Award Scholarship	2015
Reshetko Scholarship	2014
U.C. Berkeley Graduate Division Block Grant	2014
Phi Beta Kappa	2011
Magna cum laude; Brown University departmental honors	2011
C.V. Starr Fellowship for Public Service	2008

FUNDING

Evaluating the Impact of Maine’s Paid Family and Medical Leave Law on Postpartum Individuals
Role: PI
C2C Impact Engine (Northeastern University)
05/2024-04/2025
May 2024 – April 2024; \$5,000

Rural Maternity and Obstetrics Management Strategies (RMOMS): Workforce Needs Assessment of Rural Labor and Delivery Units in Maine
Role: Co-I (Subaward PI: Simmonds)

Prime sponsor HRSA (PI: Mills; MaineHealth)
September 2023 – December 2023; \$73,434

- INVITED TALKS
- “Second-guessing selection bias.” Society for Epidemiologic Research (SER). June 20, 2024. (Austin, TX)
 - “Introduction to causal inference.” MaineHealth Institute for Research. June 26 & July 17, 2023. (Portland, ME)
 - “Closing remarks.” Annual Symposium on Risks and Opportunities of AI in Pharmaceutical Medicine (AIPM). June 5, 2023. (Portland, ME)
 - “Intro to {targets}.” Maine R User Group. May 31, 2023. (Portland, ME)
 - “Challenges in estimating effects of time-varying exposures during pregnancy.” Advanced Methods Workshop, Society for Pediatric and Perinatal Epidemiologic Research (SPER). June 16, 2022. (Chicago, IL)
 - “Causal inference in epidemiology using target trial principles: Applications in pregnancy and prostate cancer.” Statistics seminar, École Polytechnique Fédérale de Lausanne. September 17, 2021. (Lausanne, Switzerland)
 - “Multiple-bias sensitivity analysis using bounds.” Joint Statistical Meetings (JSM). August 9, 2021. (Virtual)
 - “Simple sensitivity analysis for selection bias using bounds.” 13th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics). December 19, 2020. (Virtual)
 - “Discussion of ‘Selection bias in 2020.’” Online Causal Inference Seminar. December 8, 2020. (Virtual)
 - “The magic of R.” Master of Food and Resource Economics Program, University of British Columbia. August 20, 2020. (Virtual)
 - “Data gets personal.” Maine Medical Center R User Group. July 16, 2020. (Virtual)
 - “Data manipulation in R.” Maine Medical Center R Group. July 14, 2020. (Virtual)
 - “Data gets personal.” RLadies Boston, January 29, 2020. (Boston, MA)
 - “Simple sensitivity analysis for selection bias.” Koenen trauma epidemiology research group, Harvard T.H. Chan School of Public Health. December 4, 2019. (Boston, MA)
 - “Simple sensitivity analysis for selection bias.” Department of Medical Epidemiology and Biostatistics student seminar, Karolinska Institute. November 12, 2019. (Stockholm, Sweden)
 - “Simple sensitivity analysis for selection bias.” Monthly methods call, Vaccine Safety Datalink. September 12, 2019. (Virtual)
- CONTRIBUTED PRESENTATIONS & WORKSHOPS
- “Evaluating missingness assumptions for items in a frailty index.” Society for Epidemiologic Research (SER). June 14, 2023 (Portland, OR). *Oral Abstract Session*.
 - “Reproducible epidemiology in R.” Society for Epidemiologic Research (SER). June 13, 2023 (Portland, OR). *Pre-Conference Workshop*.
 - “COVID-19 and preterm birth: Understanding the relationship.” Society for Pediatric and Perinatal Epidemiologic Research (SPER). June 16, 2021 (Virtual). *Speed Talk Session*.

“Challenges in estimating effects of COVID-19 on preterm birth.” Society for Epidemiologic Research (SER). June 23, 2021 (Virtual). *Oral Abstract Session*.

“E-values, unmeasured confounding, measurement error, and selection bias.” Society for Epidemiologic Research (SER). June 18, 2019 (Minneapolis, MN); December 11, 2020 (Virtual); May 21, 2021 (Virtual). *Pre-Conference Workshop, with Tyler VanderWeele / Maya Mathur*.

“Simple sensitivity analysis for selection bias. Society for Epidemiologic Research (SER). June 20, 2019 (Minneapolis, MN). *Concurrent Contributed Session Oral Presentation*.

POSTERS
(FIRST OR
SENIOR AUTHOR
ONLY)

Bennett CR, Cavanaugh R, **Smith LH**. Using a target trial to estimate the causal effect of health technology on racial disparities. Society for Epidemiologic Research (SER). Austin, TX, June 2024.

Bennett CR, Cavanaugh R, **Smith LH**. Social and structural determinants of diabetes technology use: A descriptive analysis. Society for Epidemiologic Research (SER). Austin, TX, June 2024.

Gorsky KG, Keefe-Oates B, Lakshmanan A, Rogers EE, **Smith LH**. Leave practices and association with breastfeeding and postpartum depression among mothers of infants with prolonged postnatal hospitalization. Pediatric Academic Societies Meeting (PAS). Toronto, Canada, May 2024.

Gorsky KG, Keefe-Oates B, Lakshmanan A, Rogers EE, **Smith LH**. Leave practices and postpartum return-to-work plans among mothers of infants with prolonged postnatal hospitalization. Pediatric Academic Societies Meeting (PAS). Toronto, Canada, May 2024.

Smith LH, Bu F, Nishimura A, Kostka K, McLeggon J, Ryan PB, Hripcsak G, Madigan D, Suchard MA. Bayesian evidence synthesis with bias correction. Observational Health Data Sciences and Informatics (OHDSI) Global Symposium. East Brunswick, NJ, October 20, 2023. *Finalist: Best Community Contribution*.

Smith LH, 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*.

Smith LH, Deardorff J, Petito L, Kim H, & Abrams BF. Maternal prepregnancy weight and children’s behavioral and emotional outcomes. Society For Research in Child Development (SCRD). Austin, TX, April 8, 2017.

Smith LH, 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

Cavanaugh R, **Smith LH**. *allofus*: R package to streamline use of the All of Us Researcher Workbench. [R Package on CRAN](#).

Smith LH. Simple sensitivity analysis for selection bias. *Online tool available at selection-bias.louisahsmith.com*.

Mathur MB, **Smith LH**, Ding P, VanderWeele TJ. *EValue*: Sensitivity analyses for unmeasured confounding or selection bias in observational studies and meta-analyses. [R Package on CRAN](#).

Smith LH. PHS Summer Prep. *Online introduction to R, probability, and statistics for*

incoming PhD students available at bit.ly/phs-prep.

TEACHING: PRIMARY INSTRUCTOR	Northeastern University, Boston, MA	
	PHTH 2210: Foundations of Biostatistics	Fall 2024
	4 Credits; ~180 students	
	PHTH 6800: Causal Inference in Public Health Research	Spring 2023, 2024
	3 Credits; ~10 students	
	Emory University Rollins School of Public Health, Atlanta, GA	
	EPI590R: R Bootcamp	Summer 2023, 2024
	1 Credit; ~50 students	
	Harvard T. H. Chan School of Public Health, Boston, MA	
	ID 543: Introduction to R	Summer 2023, 2024
	1.25 Credits; ~20 students	
TEACHING: STUDENT INSTRUCTOR	Harvard T. H. Chan School of Public Health, Boston, MA	
	EPI 207: Advanced Epidemiologic Methods	2018 – 2020
	Head teaching fellow <i>Instructor:</i> James Robins	
	BST 256: Theory and Methods for Causality I	2020
	Teaching fellow <i>Instructor:</i> Andrea Rotnitzky	
	Introduction to R	2019 – 2020
	Instructor and course developer	
	Introduction to Epidemiology	2019 – 2020
	Co-instructor <i>Co-instructor:</i> David Cote	
	PHS 2000: Quantitative Research Methods	2017 – 2019
	Teaching fellow <i>Instructors:</i> Tyler VanderWeele, Jarvis Chen, Michael Hughes, Jessica Cohen	
	University of California, Berkeley, Berkeley, CA	
	PH 150A: Introduction to Epidemiology and Human Disease	2016
Graduate student instructor <i>Instructor:</i> Lisa Barcellos and Mahasin Mujahid		
PH 250A: Epidemiologic Methods	2015	
Graduate student instructor <i>Instructor:</i> Sandra McCoy		
Guest lectures		
PHS 2000B: Quantitative Research Methods, Harvard T.H. Chan School of Public Health.		
SBS 245: Social and Behavioral Research Methods, Harvard T.H. Chan School of Public Health.		

MPH 677: Regression Models in the Health Sciences, University of Southern Maine.
PHTH 5202: Epidemiology, Northeastern University.

OTHER	Member, Society for Epidemiologic Research (SER) Member, Society for Pediatric and Perinatal Epidemiologic Research (SPER) Planning Committee, Annual Symposium on Risks and Opportunities of AI in Pharmaceutical Medicine (AIPM) Ad-hoc reviewer: <i>American Journal of Epidemiology, Biometrika, BMJ Open, Epidemiologic Methods, Epidemiologic Reviews, Epidemiology, International Journal of Epidemiology, JAMA Network Open, JAMA Psychiatry, Journal of Causal Inference, Journal of Epidemiology, Patient Preference and Adherence, Paediatric and Perinatal Epidemiology, Scientific Reports, Sociological Methods and Research</i>
OTHER PROFESSIONAL EXPERIENCE	Little Wound School , Kyle, SD Elementary school teacher 3rd grade teacher of 10-20 students Taught reading, writing, math, science, social studies

2011 – 2014