

Jennifer Feder Bobb, PhD  
Curriculum Vitae  
(Updated August 11, 2023)

## Biographical and educational information

Jennifer F. Bobb, PhD  
Associate Scientific Investigator  
Biostatistics Division, Kaiser Permanente Washington Health Research Institute (KPWHRI)  
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<https://www.kp.washingtonresearch.org/our-research/our-scientists/bobb-jennifer-f>

Affiliate Associate Professor  
Department of Biostatistics, University of Washington

PhD Biostatistics, Johns Hopkins Bloomberg School of Public Health, 2012  
BA Mathematics, *summa cum laude*, Washington University in St. Louis, 2006

## Professional positions

### Current

*Associate Scientific Investigator*, Biostatistics Division, Kaiser Permanente Washington Health Research Institute, September 2020–present

*Affiliate Associate Professor*, Department of Biostatistics, University of Washington, July 2022–present

### Prior

*Affiliate Assistant Professor*, Department of Biostatistics, University of Washington, April 2017–June 2022

*Assistant Scientific Investigator*, Biostatistics Division, Kaiser Permanente Washington Health Research Institute (formerly Group Health Research Institute), July 2015–September 2020

*Research associate*, Department of Biostatistics, Harvard T.H. Chan School of Public Health (Harvard Chan School), 2013–2015

*Postdoctoral fellow*, Department of Biostatistics, Harvard Chan School, 2012–2013

*Research assistant*, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health, 2008–2011

*Student software developer*, R Project for Statistical Computing, Google Summer of Code, 2011

*Data analyst*, Career Services and Disability Support Office, Johns Hopkins Bloomberg School of Public Health, 2008–2010

## Professional honors

NIEHS Paper of the Year, 2015

Junior Researcher Travel Award, Women in Statistics Conference, 2014

John M. Chambers Statistical Software Award, ASA Section on Statistical Computing, 2012

Statistics in Epidemiology Young Investigator Award, ASA Section on Statistics in Epidemiology, 2011

Louis I. and Thomas D. Dublin Award for the Advancement of Epidemiology and Biostatistics, Johns Hopkins Bloomberg School of Public Health, 2011

First place, Delta Omega Biostatistics Poster Competition, Johns Hopkins Bloomberg School of Public Health, 2011

Sommer Scholar, Johns Hopkins Bloomberg School of Public Health, 2007–2011

NIH Environmental Biostatistics Training Grant, 2007–2011

Washington University Dean's Scholarship, 2002–2006

Sigma Xi, scientific research honorary, 2006

NSF Research Experience for Undergraduates, Summers 2004, 2005

## Memberships

American Statistical Association

Western North American Region, International Biometric Society

## Organizational service, KPWHRI

Biostatistics Committee on promoting work culture in the hybrid era, 2022–present

Biostatistics Journal Club organizer, 2016–2023

Search committee for investigator biostatistician, 2020

Search committee for collaborative biostatistician hire, 2018

Orientation mentor for new faculty, 2018

Evaluation committee member for opportunistic hire, 2016

## Other professional service

National service (see also 'Special national responsibilities' below)

Proposal Reviewer, Walter A. Rosenblith New Investigator Award, Health Effects Institute, 2023

Program Chair for 2022 ENAR Spring Meeting, ASA Biometric Section, Fall 2021

Proposal reviewer, Harvard-NIEHS Center Pilot Project, 2020

Conference Session Organizer, 3rd Seattle Symposium on HealthCare Data Analytics, 2018

Conference Session Chair, Joint Statistical Meetings, 2012

Local service and involvement, UW

Admissions committee member (MS students), Department of Biostatistics, 2022

Grader, PhD applied exam, Department of Biostatistics, 2018–2019

PhD applied exam committee member, Department of Biostatistics, 2018

Local service and involvement, prior institutions

Co-organizer, Complex Mixtures Analysis Working Group, 2012–2014, Harvard Chan School  
Organizer, Student Journal Club, Department of Biostatistics, Johns Hopkins Bloomberg School  
of Public Health, 2009–2010

## Special national responsibilities

Elected to 3-year position as Chair-Elect/Chair/Past-Chair, Biometrics Section of the American  
Statistical Association, 2023/2024/2025

Invited member, Committee on Funded Research, American Statistical Association, 2019–present

Grant reviewer, Combined Children and Youth and Adolescent Alcohol Merit Review panel (Cycle 1,  
2023), *Patient-centered Outcomes Research Institute (PCORI)*, 2023

Grant reviewer, Assessment of Prevention, Diagnosis, and Treatment Options Merit Review panel  
(Cycle 3, 2021), *PCORI*, 2022

Invited member, Regional Advisory Board, West North Atlantic Region of the International Biometric  
Society, 2016–2018

## Editorial responsibilities

Associate Editor, *Biostatistics*, Feb. 2017–present

Reviewer (Peer review history available on [Web of Science](#))

American Journal of Epidemiology  
Annals of Applied Statistics  
Biometrics  
Biostatistics  
BMC Public Health  
BMJ  
Environmental Health  
Environmental Health Perspectives  
Epidemiology  
Generating Evidence & Methods to Improve Patient Outcomes  
International Journal of Biometeorology  
International Journal of Epidemiology  
JAMA  
JASA  
Journal of Agricultural, Biological, and Environmental Statistics  
Journal of the Royal Statistical Society (Series A; Series C)  
Nature Climate Change  
PLOS One  
Science of the Total Environment  
Statistics in Medicine  
Statistical Methods in Medical Research  
The American Statistician

## Research funding

### Ongoing projects

Multiple principal investigator, *SeattleStatSummer for Biomedical Data Science Research Training*, R25LM014210 (mPIs: Othus [Contact PI], Bobb, Chowning), NLM; 0.05 FTE, 9/15/2022–8/31/2027

Co-investigator, *Center for Dissemination and Implementation At Stanford (C-DIAS)*, 1P50DA054072 (PI: McGovern; KPWHRI Project PI: Glass), NIDA; Direct Costs: \$2,270,077; 0.05–0.15 FTE, 8/1/2022–5/31/2027

Co-investigator, *Health Systems Node of the NIDA Clinical Trials Network*, UG1 UG1DA040314 (PI: Campbell, Bradley, Weisner), NIDA; Direct Costs: \$744,593; 0.10 FTE, 6/1/2020–2/28/2025

Co-investigator, *Patient-centered team-based primary care to treat opioid use disorder, depression, and other conditions (PC<sup>2</sup>Too)*, U01 MH121949 (PI: DeBar, Bradley), NIMH; Direct Costs: \$11,457,273, 0.10–0.15 FTE, 2019–2024

Co-investigator, *Understanding practical alcohol measures in primary care to prepare for measurement-based care: scaled EHR Measures of alcohol use and DSM-5 alcohol use disorder (AUD) symptoms*, R21AA028073/R33 (PI: Hallgren), NIAAA; Direct Costs: \$745,144, 0.10 FTE, 2019–2024

Co-investigator, *Digital treatments for opioids and other substance use disorders (DIGITS) in primary care: A hybrid type-III implementation trial*, R01DA047954 (PI: Glass), NIDA; Direct Costs: \$2,504,751, 0.10 FTE, 2019–2024

Co-investigator, *PRimary care Opioid Use Disorders Treatment (PROUD) Trial (CTN-0074)*. UG1 DA040314 (PI: Bradley), NIDA; Direct Costs: \$11,885,123, 0.10 FTE, 2017–2023

### Completed projects

Co-investigator, *Moving to Health: How changing built environments impact weight and glycemic control*, R01 DK114196 (PI: Arterburn), NIDDK; Direct Costs: \$2,157,999; 0.20 FTE, 9/1/2017–6/30/2023.

Co-investigator (PI, KPWHRI subcontract), *New causal inference methods for cluster randomized trials with post-randomization selection-bias*, (PI: Li), PCORI; Direct Costs: \$115,333, 0.10 FTE, 2020–2022

Co-investigator, *Psychological benefits and potential pathogen transmission in hospitalized pediatric oncology patients receiving therapy dog visits: a randomized controlled trial*, R21 HD091877-01 (PI: Chubak), NICHD; Direct Costs: \$342,090; 0.05–0.10 FTE, 5/1/2017–4/30/2019 Key Personnel: HIPPO. R21 HD091877.

Co-investigator, *Integration of firearm suicide prevention tools in health care settings: patient-reported access to firearms and decision aid for securing firearms*, Kaiser Permanente Firearm Injury Prevention Taskforce Award (PI: Richards); Direct Costs: \$113,939, 0.05 FTE, 2019–2021

Co-investigator, *Integrating Addiction Research in Health Systems: the Addiction Research Network*, UG1 DA040314 (PI: Campbell, Bradley, Weisner), NIDA; Direct Costs: \$713,143; 0.10 FTE, 9/1/2015–5/31/2020

Co-investigator, *Evaluation of the Risk of Neural Tube Defects Among Live Births Exposed to Maternal Prescription Opioids During Early Pregnancy using MEPREP*, Food and Drug Administration, Direct Costs: \$470,212; 0.20 FTE, 2016–2019

Co-investigator (PI, KPWHRI subcontract), *Cardiovascular Health and Air Pollution: A National Study*, R01 ES024332-01A1 (PI: Zanobetti), NIEHS; Direct Costs: \$59,084; 0.08 FTE, 8/1/2015–2/28/2019

Co-investigator, *Alzheimer's Disease patient registry (ADPR/ACT)*, U01 AG006781 (PI: Larson, Crane), NIA; Direct Costs: \$10,329,826; 0.10 FTE, 5/15/2015-1/30/2018

Co-investigator, *Integrating Addiction Research in Health Systems: the Addiction Research Network (ARN) - Supplement*, UG1 DA040314 (PI: Campbell, Bradley, Weisner), NIDA; Direct Costs: \$299,007; 0.15 FTE, 9/1/2015–5/31/2017

Co-investigator, *Alcohol-related care and outcomes for outpatients with HIV in a national VA cohort*, R21 AA022866 (PI: Bradley, Williams), NIAAA; Direct Costs: \$274,168; 0.10 FTE, 2/15/2015–1/31/2017

Co-investigator, *Elective Induction of Labor and Pregnancy Outcomes*, R01 HD071986 (PI: Dublin, Getahun), NICHD; 0.15 FTE, 9/1/2013–5/31/2017

Principal investigator, *Developing statistical software for estimating the joint effects of multiple risk factors*, GHRI Directors Project Resource Fund; Direct Costs: \$2,970; 0.00 FTE, 9/1/2015–3/1/2016

Principal investigator, *A statistical approach for estimating the health effects of air pollution mixtures on multiple outcomes simultaneously*, HSPH-NIEHS Center Pilot Project P30ES000002; Direct Costs: \$22,000; 4/1/15–3/31/16

Co-investigator, *Vulnerability and Adaptation to Heat and Air Pollution in a Changing Climate*, R21 ES022585 (PI: Dominici), NIEHS, 12/18/13–8/31/15

Postdoctoral fellow, *Air Pollution and Pregnancy Outcome in New York City*, R01 ES019955 (PI: Savitz), NIEHS, 7/01/11–3/31/15

## Teaching and mentoring responsibilities

### Teaching

#### Short courses

**Bobb JF**, Coley RY. "Statistical methods for electronic health record data," International Conference for Health Policy Statistics, Scottsdale, AZ, 2023

**Bobb JF**, Shortreed SM, Coley RY. "Statistical methods for electronic health record data," 6th Seattle Symposium in Biostatistics, Seattle, WA, 2020

#### Guest lecturer

"Pragmatic clinical trials," Advanced Health Services Methods III (HSERV 525), University of Washington School of Public Health, 2022

"Use of propensity scores in (pharmaco)epidemiology research," Pharmacoepidemiology, University of Washington School of Public Health, 2018, 2020, 2022

"Statistical methods for pragmatic trials," Methods Seminar, Mental Health Research Network T32 fellowship program, 2021

"Quantifying future mortality attributable to extreme heat under global climate change: A case study of Bayesian methodology in environmental health," Bayesian Methodology in Biostatistics, Harvard Chan School, 2012, 2013

"Bayesian methods for estimating health risks of environmental exposures," Advanced Methods in Biostatistics IV, Johns Hopkins Bloomberg School of Public Health, 2011

Advanced Methods in Biostatistics II, Johns Hopkins Bloomberg School of Public Health, 2010  
Design of Clinical Experiments, Johns Hopkins Bloomberg School of Public Health, 2010  
Methods in Biostatistics IV, Johns Hopkins Bloomberg School of Public Health, 2009

Teaching assistant, Johns Hopkins Bloomberg School of Public Health

Advanced Methods in Biostatistics II–IV (Doctoral level), 2010–2011  
Design of Clinical Experiments, 2010  
Data Analysis Workshop I–II, Summers 2009, 2010  
Multilevel Statistical Models in Public Health, 2009  
Analysis of Longitudinal Data, 2009  
Essentials of Probability and Statistical Inference I–II (Masters level), 2009  
Methods in Biostatistics I–IV (Masters level), 2008–2009

## Mentoring

Mentored Junior Faculty

Primary Mentor for Yu-Ru Su, 2023–present, Biostatistics Division, KPWHRI

PhD committees in non-chair roles

Phuong T. Vu, 2018–2019, Biostatistics, University of Washington  
Stacy Pettigrew, 2016–2018, Environmental Health Sciences, University of Albany  
Shelley Liu, 2013–2016, Biostatistics, Harvard Chan School

Mentored students

Danyang Li, Fall 2021–Spring 2022, MS student, Statistics, University of Washington  
Isabelle Bassler, Summer 2021, undergraduate student, Fred Hutch Pathway Undergraduate Researchers program  
Stephanie Hopp, 2014–2018, Post-Baccalaureate Certificate in Pre-Medical Studies, Boston University (2014–2015); medical student, Alabama College of Osteopathic Medicine (2016–2018)  
Ernesto Ulloa, Fall 2015, PhD student, Biostatistics, University of Washington  
Yan Wang, 2014–2016, PhD student, Biostatistics, Environmental Health Sciences, Harvard Chan School  
Elizabeth Smoot, 2014–2015, PhD, Biostatistics, Harvard Chan School  
Bianca Papi, 2013–2015, MA, Biostatistics, Sapienza University of Rome

Research associates

Sungtaek Son, PhD student, Biostatistics, University of Washington, Winter 2022–present  
Hongxiang Qiu, PhD student, Biostatistics, University of Washington, 2016–2021  
Yunhua Xiang, PhD student, Biostatistics, University of Washington, Fall 2017–Spring 2018

## Publications (\* Indicates mentored work of student; † Indicates joint first author)

### Published papers in peer-reviewed journals

1. Hallgren KA, Jack HE, Oliver M, Berger D, **Bobb JF**, Kivlahan DR, Bradley KA. Changes in alcohol consumption reported on routine healthcare screenings are associated with changes in depression symptoms (2023). *Alcohol: Clinical and Experimental Research*. <https://doi.org/10.1111/acer.15075>

2. Jack HE, Oliver MM, Berger DB, **Bobb JF**, Bradley KA, Hallgren KA (2023). Association between clinical measures of unhealthy alcohol use and subsequent year hospital admissions in a primary care population. *Drug and Alcohol Dependence*. Volume 245, 1 April 2023, 109821. <https://doi.org/10.1016/j.drugalcdep.2023.109821>
3. †Lee AK, †**Bobb JF**, Richards JE, Achtmeyer CE, Ludman E, Oliver M, Caldeiro RM, Parrish R, Lozano PM, Lapham GT, Williams EC, Glass JE, Bradley KA (2023). Integrating alcohol-related care into primary care as part of behavioral health integration: A cluster-randomized implementation trial. *JAMA Internal Medicine*. 183(4):319-28. <https://doi.org/10.1001/jamainternmed.2022.7083>
4. DeBar LL, Bushey MA, Kroenke K, **Bobb JF**, Schoenbaum M, Thompson EE, Justice M, Zatzick D, Hamilton LK, McMullen CK, Hallgren KA, Benes LL, Forman DP, Caldeiro RM, Brown RP, Campbell NL, Anderson ML, Son S, Haggstrom DA, Whiteside L, Schleyer TKL, Bradley KA (2023). A Patient-Centered Nurse-Supported Primary care-based Collaborative Care Program to Treat Opioid Use Disorder and Depression; Design and Protocol for the MI-CARE Randomized Controlled Trial. *Contemporary Clinical Trials*. 127: 107124 <https://doi.org/10.1016/j.cct.2023.107124>
5. Glass JE, Dorsey CN, Beatty T, **Bobb JF**, Wong ES, Palazzo L, King D, Mogk J, Stefanik-Guizlo K, Idu A, Key D, Fortney, JC, Thomas R, Garza McWethy A, Caldeiro RM, Bradley KA (2023). Study protocol for a factorial-randomized controlled trial evaluating the implementation, costs, effectiveness, and sustainment of digital therapeutics for substance use disorder in primary care (DIGITS Trial). *Implementation Science*. <https://doi.org/10.1186/s13012-022-01258-9>
6. Wartko PD, Qiu H, Idu AE, Yu O, McCormack J, Matthews AG, **Bobb JF**, Saxon AJ, Campbell CI, Liu D, Braciszewski JM. Baseline representativeness of patients in clinics enrolled in the PRimary care Opioid Use Disorders treatment (PROUD) trial: comparison of trial and non-trial clinics in the same health systems (2022). *BMC Health Services Research*. 22(1):1593.
7. Chubak J, Pocobelli G, Ziebell RA, Hawkes BS, Adler A, **Bobb JF**, Zerr DM (2022). Effects of the COVID-19 pandemic on animal-assisted activities in pediatric hospitals. *Journal of Pediatric Health Care*. <https://doi.org/10.1016/j.pedhc.2022.09.011>
8. Matson TE, Lapham GL, **Bobb JF**, Oliver M, Hallgren KA, Williams EC, Bradley KA (2022). Validity of the Single-Item Screen – Cannabis (SIS-C) for cannabis use disorder screening in routine care. *JAMA Network Open*. 5(11):e2239772. <https://doi.org/10.1001/jamanetworkopen.2022.39772>
9. Braciszewski JM, Idu AE, Yarborough BH, Stumbo S, **Bobb JF**, Bradley KA, Rossom RC, Murphy MT, Binswanger IA, Campbell CI, Glass JE, Matson TE, Lapham GT, Loree AM, Barbosa-Leiker C, Hatch MA, Tsui JI, Arnsten J, Stotts A, Horigian V, Hutcheson R, Bart G, Saxon AJ, Thakral M, Grant DL, Pflugeisen BM, Usaga I, Madziwa L, Silva A, Boudreau DM (2022). Sex differences in comorbid mental and substance use disorders among primary care patients with opioid use disorder. *Psychiatric Services*. <https://doi.org/10.1176/appi.ps.202100665>
10. Lapham GT, Matson TE, Carrell DS, **Bobb JF**, Luce C, Oliver MM, Ghitza UE, Hsu C, Browne KC, Binswanger IA, Campbell CI, Saxon AJ, Vandrey R, Schauer GL, Liccardo Pacula R, Horberg MA, Bailey SR, McClure EA, Bradley KA (2022). Comparison of medical cannabis use reported on a confidential survey vs documented in the electronic health record among primary care patients. *JAMA Network Open*. 5(5), pp.e2211677–e2211677.

11. Cruz M, Drewnowski A, **Bobb JF**, Hurvitz PM, Moudon AV, Cook AJ, Mooney SJ, Buszkiewicz JH, Lozano P, Rosenberg DE, Kapos F, Theis MK, Anau J, Arterburn D (2022). Residential relocation, changes in the built environment, and changes in weight gain in the Moving to Health study. *Epidemiology*. 33(5):747-755. doi:10.1097/EDE.0000000000001505.
12. Carrell DS, Cronkite DJ, Shea M, Oliver M, Luce C, Matson TE, **Bobb JF**, Hsu C, Binswanger IA, Browne KC, Saxon AJ, McCormack J, Jelstrom E, Ghitza UE, Campbell, CI, Bradley KA, Lapham GT (2022). Clinical documentation of patient-reported medical cannabis use in primary care: Toward scalable extraction using natural language processing methods. *Substance Use*
13. **Bobb JF**, Cruz MF, Mooney SJ, Drewnowski A, Arterburn D, Cook AJ (2022). Accounting for spatial confounding in epidemiological studies of individual-level exposures: an exposure penalized spline approach. *Journal of the Royal Statistical Society, Series A*. 185(3):1271–1293. [urlhttps://doi.org/10.1111/rssa.12831](https://doi.org/10.1111/rssa.12831)
14. Richards JE, Boggs JM, Rowhani-Rahbar A, Kuo E, Betz ME, **Bobb JF**, Simon GE (2022). Patient-reported firearm access prior to suicide death. *JAMA Network Open*. 5(1):e2142204. doi:10.1001/jamanetworkopen.2021.42204
15. Devick KL, **Bobb JF**, Mazumdar MM, Henn BC, Bellinger DC, Christiani DC, Wright RO, Williams PL, Coull BA, Valeri L (2022). Bayesian kernel machine causal mediation analysis. *Statistics in Medicine*. 41(5):860–876. doi:10.1002/sim.9255.
16. Li F, Zizhong T, **Bobb JF**, Papadogeorgou G, Li F (2022). Clarifying selection bias in cluster randomized trials: estimands and estimation. *Clinical Trials*. 19(1):33–41. doi:10.1177/17407745211056875
17. Buszkiewicz J, **Bobb JF**, Kapos F, Hurvitz P, Arterburn D, Moudon AV, Cook AJ, Mooney SJ, Cruz M, Gupta S, Lozano P, Rosenberg DE, Theis MK, Anau J, Drewnowski A (2021). Differential associations of the built environment on weight gain by sex and race/ethnicity but not age. *International Journal of Obesity*. 45(12):2648–2656.
18. Hallgren KA, Matson TE, Oliver M, Witkiewitz K, **Bobb JF**, Lee AK, Caldeiro RM, Kivlahan DR, Bradley KA (2022). Practical assessment of alcohol use disorder in routine primary care: Performance of an Alcohol Symptom Checklist. *Journal of General Internal Medicine*. 37(8):1885–1893.
19. Chen C, Warrington JA, Dominici F, Peng RD, Esty DC, Wang Y, **Bobb JF**, Bell ML (2021). Long-term temporal trend in the association between short-term exposure to fine particulate matter and hospitalizations in older adults. *The Lancet Planetary Health*. 5(8):e534–e541.
20. Richards JE, Kuo E, Stewart C, **Bobb JF**, Mettert KD, Rowhani-Rahbar A, Betz ME, Parrish R, Whiteside U, Boggs JM, Simon GE (2021). Self-reported access to firearms among patients receiving care for mental health and substance use. *JAMA Health Forum*. Vol. 2, No. 8, e211973–e211973
21. Matson TE, Carrell DS, **Bobb JF**, Cronkite DC, Oliver MM, Luce C, Ghitza UE, Hsu CW, Campbell CI, Browne KC, Binswanger IA, Saxon AJ, Bradley KA, Lapham GT (In press). Prevalence of medical cannabis use and associated health conditions documented in electronic health records among primary care patients in Washington State. *JAMA Network Open*.
22. Buszkiewicz JH, **Bobb JF**, Hurvitz PM, Arterburn D, Moudon AV, Cook AJ, Mooney SJ, Cruz M, Gupta S, Lozano P, Rosenberg DE, Theis MK, Anau J, Drewnowski A (2021). Does the built environment have independent obesogenic power? Urban form and trajectories of weight gain. *International Journal of Obesity*. 45(9):1914–1924.



23. Pocobelli G, Dublin S, **Bobb JB**, Albertson-Junkans L, Andrade S, Cheetham TC, Salgado G, Griffin MR, Raebel MA, Smith S, Li D, Pawloski PA, Toh S, Taylor L, Hua W, Horn P, Trinidad JP, and Boudreau DM (2021). Prevalence of prescription opioid use during pregnancy in 8 U.S. health plans during 2001–2014. *Pharmacoepidemiology and Drug Safety*. 30(11):1541-50.
24. Campbell CI, Saxon AJ, Boudreau D, Wartko P, **Bobb JF**, Lee AK, Matthews AG, McCormack J, Liu DS, Addis M, Altschuler A, Samet JH, Labelle C, Arnsten J, Caldeiro RM, Borst DT, Stotts AL, Braciszewski, Szapocznik J, Bart G, Schwartz RP, McNeely J, Liebschutz JM, Tsui JI, Merrill JO, Bradley K (2021). PRimary Care Opioid Use Disorders treatment (PROUD) trial protocol: a pragmatic, cluster-randomized implementation trial. *Addiction Science & Clinical Practice*. 16(1):1-5.
25. Tsui JI, Akosile MA, Lapham GT, Boudreau DM, Johnson EA, **Bobb JF**, et al. (2021). Prevalence and medication treatment of opioid use disorder among primary care patients with Hepatitis C and HIV. *Journal of General Internal Medicine*. 36(4):930–937.
26. Zanobetti A, Coull BA, Luttmann-Gibson H, van Rossem L, Rifas-Shiman SL, Kloog I, Schwartz JD, Oken E, **Bobb JF**, Koutrakis P, Gold DR (2021). Ambient lead and vanadium concentrations are associated with newborn blood pressure in Project Viva. *JAHA: Journal of the American Heart Association*. 10:e016935.
27. Zhao Y, Naumova EN, **Bobb JF**, Claus Henn B, Singh GM (2021). Joint association of multiple dietary components on cardiovascular disease risk: a machine learning approach. *American Journal of Epidemiology*. 190(7):1353–1365.
28. Cheetham C, Dublin S, Pocobelli G, **Bobb JF**, Andrade S, Portugal C, Munis M, Albertson-Junkans L, Salgado G, Griffin M, Raebel M, Smith D, Li D, Pawloski P, Toh D, Taylor L, Hua W, Graham D, Dinatale M, Ceresa C, Trinidad J, Boudreau DM (2020). Validity of diagnosis and procedure codes for identifying neural tube defects. *Pharmacoepidemiology and Drug Safety*. 29(11):1489–1493.
29. Bauer JA, Devick K, **Bobb JF**, Coull BA, Bellinger D, Benedetti C, Cagna G, Fedrighi C, Guazzetti S, Oppini M, Placidi D (2020). Associations of a metal mixture measured in multiple biomarkers with IQ: Evidence from Italian adolescents living near ferroalloy industry. *Environmental Health Perspectives*. 128(9):097002.
30. Matson TE, Lapham GT, **Bobb JF**, Johnson EJ, Richards JE, Lee AK, Bradley KA, Glass JE (2020). Cannabis use, other drug use, and risk of subsequent acute care in primary care patients. *Drug and Alcohol Dependence*. 216:108227.
31. Williams EC, McGinnis KA, Rubinsky AD, Matson TE, **Bobb JF**, Lapham GT, Edelman EJ, Satre DD, Catz SL, Richards JE, Bryant KJ, Marshall BDL, Kraemer KL, Crystal S, Gordon AJ, Skanderson M, Fiellin DA, Justice AC, Bradley KA (2021). Alcohol use and antiretroviral adherence among patients living with HIV: Is change in alcohol use associated with change in adherence? *AIDS and Behavior*. 25(1):203–214.
32. Boudreau DM, Lapham GT, Johnson E, **Bobb JF**, Matthews A, McCormack J, Liu D, Campbell C, Rossom R, Binswanger IA, Yarborough B, Arnsten JH, Cunningham CO, Glass JE, Murphy M, Zare M, Hechter R, Ahmedani B, Braciszewski J, Horigian V, Szapocznik J, Samet J, Saxon A, Schwartz R, Bradley KA (2020). Documented opioid use disorder and its treatment in primary care across six US health systems. *Journal of Substance Abuse Treatment*. 112:41–8.

33. Sayre M, Lapham GT, Lee AK, Oliver M, **Bobb JF**, Bradley KA (2020). Symptoms of DSM 5 Substance use disorders reported by primary care patients with high risk substance Use. *Journal of General Internal Medicine*. 35, 1111—1119
34. Mooney SJ, **Bobb JF**, Hurvitz PM, Anau J, Theis MK, Drewnowski A, Aggarwal A, Gupta S, Rosenberg DE, Cook AJ, Shi X, Lozano P, Moudon AV, Arterburn D (2020). Impact of built environments on body weight (the Moving to Health Study): Protocol for a retrospective longitudinal observational study. *JMIR Research Protocols*.9(5):e16787.
35. **Bobb JF**, Qiu H, Matthews AG, McCormack J, Bradley KA (2020). Addressing identification bias in the design and analysis of cluster-randomized pragmatic trials: a case study. *Trials*. 21(1):289. \*Included in collection on [The future of pragmatic trials](#)
36. Lapham GT, Boudreau DM, Johnson EA, **Bobb JF**, Matthews AG, McCormack JF, Liu D, Samet JH, Saxon AJ, Campbell CI, Glass JE, Rossom RC, Murphy MT, Binswanger IA, Yarborough BH, PROUD Collaborative Authors, Bradley KA (2020). Prevalence and treatment of opioid use disorder among primary care patients in six health systems. *Drug and Alcohol Dependence*. 207:107732.
37. Williams EC, **Bobb JF**, Lee AK, Ludman EJ, Richards JE, Hawkins EJ, Merrill JO, Saxon AJ, Lapham GT, Matson TE, Chavez LJ, Caldeiro R, Greenberg DM, Kivlahan DR, Bradley KA (2019). Effect of a care management intervention on 12-month drinking outcomes among patients with and without DSM-IV alcohol dependence at baseline. *Journal of General Internal Medicine*. 1–10.
38. Richards JE, **Bobb JF**, Lee AK, Lapham GT, Williams EC, Glass JE, Ludman E, Achtmeyer C, Caldeiro RM, Oliver M, Bradley KA (2019). Integration of screening, assessment, and treatment for cannabis and other drug use disorders in primary care: an evaluation in three pilot sites. *Drug and Alcohol Dependence*. 201:134–141
39. Domingo-Relloso A, Grau-Perez M, Briongos-Figuero L, Gomez-Ariza JL, Garcia-Barrera T, **Bobb JF**, Martin-Escudero JC, Chaves FJ, Kioumourtzoglou M, Navas-Acien A, Redon-Mas J, Tellez-Plaza M (2019). The association of urine metals and metal mixtures with cardiovascular incidence in an adult population from Spain: the Hortega Follow-Up Study. *International Journal of Epidemiology*. 1–11
40. Nelson JC, Ulloa E, **Bobb JF**, Maro JC (2019). Leveraging the entire cohort in drug safety monitoring: A review of sequential surveillance methods that use regression or weighting to control confounding in a rare event setting. *Journal of Clinical Epidemiology*. 112:77–86
41. Pettigrew S, Pan W, Berky A, Harrington J, **Bobb JF**, Feingold B (2019). In urban, but not rural, areas of Madre de Dios, Peru, adoption of a Western diet is inversely associated with selenium intake. *Science of the Total Environment*. 687:1046–1054
42. Williams EC, McGinnis KA, Tate JP, Matson TE, Rubinsky AD, **Bobb JF**, Lapham GT, Edelman EJ, Catz SL, Satre DD, Bryant KJ (2019). HIV disease severity is sensitive to temporal changes in alcohol use: a national study of VA patients with HIV. *Journal of Acquired Immune Deficiency Syndromes*. 81 (4):448–455
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\*Featured in a Researcher Spotlight by the Harvard T.H. Chan School of Public Health Superfund Program
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\*Recognized as one of the Papers of the Year by the National Institute of Environmental Health Sciences
69. **Bobb JF**, Peng RD, Bell ML, Dominici F (2014). Heat-related mortality and adaptation to heat in the United States. *Environmental Health Perspectives*. 122:811–816.  
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74. James BD, Glass TA, Caffo B, **Bobb JF**, Davatzikos C, Yousem D, Schwartz BS (2012). Association of social engagement with brain volumes assessed by structural MRI. *Journal of Aging Research*. vol. 2012, Article ID 512714, 9 pages.
75. **Bobb JF**, Dominici F, Peng RD (2011). A Bayesian model averaging approach for estimating the relative risk of mortality associated with heat waves in 105 U.S. cities. *Biometrics*. 67(4):1605–1616.  
\*Received Statistics in Epidemiology Young Investigator Award
76. **Bobb JF**, Scharfstein DO, Daniels MJ, Collins FS, Kelada SN (2011). Multiple imputation of missing phenotype data for QTL mapping. *Statistical Applications in Genetics and Molecular Biology*. Vol. 10: Iss. 1, Article 29.
77. Peng RD, **Bobb JF**, Tebaldi C, McDaniel L, Bell ML, Dominici F (2011). Toward a quantitative estimate of future heat wave mortality under global climate change. *Environmental Health Perspectives*. 119(5):701–706.
78. Goldsmith J, **Bobb J**, Crainiceanu C, Caffo B, Reich D (2011). Penalized functional regression. *Journal of Computational and Graphical Statistics*. 20(4):830–851.
79. Eisenstat D, **Feder (Bobb) J**, Francos G, Gordon G, Redlich A (2008). Expected rank and randomness in rooted graphs. *Discrete Applied Mathematics*. 156(5):746–756.

## Other peer-reviewed scholarly publications

Coull BA, **Bobb JF**, Wellenius GA, Kioumourtzoglou M, Mittleman MA, Koutrakis P, Godleski JJ. (2015). New statistical methods for analyzing multiple pollutants, sources, and health outcomes. Part I: Statistical learning methods for the effects of multiple air pollution constituents. Research report. *Health Effects Institute*. Report 183

## Other non-peer reviewed scholarly publications

1. **Bobb JF**, Cook AJ, Shortreed SM, Glass JE, Vollmer WM (2019). Experimental designs and randomization schemes: designing to avoid identification bias. In: *Rethinking Clinical Trials: A Living Textbook of Pragmatic Clinical Trials*. Bethesda, MD: NIH Health Care Systems Research Collaboratory.
2. Marcum ZA, Walker R, **Bobb JF**, Sin MK, Gray SL, Bowen JD, McCormick W, McCurry SM, Crane PK, Larson EB (2019). Reply to: Comment on: Serum cholesterol and incident Alzheimer's disease: findings from the Adult Changes in Thought Study. *Journal of the American Geriatrics Society*. 67(6):1303–1305.
3. Celik S, Russell JC, Pestana CR, Lee TI, Mukherjee S, Crane PK, Keene D, **Bobb JF**, Kaeberlein M, Lee SI. DECODER: A probabilistic approach to using big data reveals Complex I as a potential Alzheimer's disease therapeutic target. *bioRxiv*. 2018 Jan 1:302737.

## Software

1. **Bobb JF**. `bkmr`: An implementation of Bayesian kernel machine regression for estimating the joint health effects of multiple concurrent exposures. R package, >50K downloads.
2. **Bobb JF**, Zhao H, Varadhan R. `turboEM`: A suite of convergence acceleration schemes for EM and MM algorithms. R package, >50K downloads.  
\*Winner of the 2012 John M. Chambers Statistical Software Award

## Submitted manuscripts

1. Lozano PM, **Bobb JF**, Kapos FP, Cruz M, Mooney SJ, Hurvitz PM, Anau J, Theis K, Cook AJ, Moudon AV, Arterburn D, Drewnowsky A, Residential density is associated with BMI trajectories in children and adolescents: Findings from the M2H Study
2. Chubak J, Adler A, **Bobb JF**, Hawkes RJ, Ziebell RA, Pocobelli G, Zerr DM. A randomized controlled trial of animal-assisted activities for pediatric oncology patients: psychosocial and microbial outcomes
3. Dublin S, Walker RL, **Bobb JF**, Caughey AB, Hold VL, Wing DA, Shi JM, Duchovny D, Getahun D. Outcomes after non-indicated induction of labor compared to expectant management: a retrospective cohort study.
4. \*Qiu H, Cook AJ, **Bobb JF**. Investigating tests for cluster-randomized trials with few clusters under generalized linear mixed models with covariate adjustment. <https://doi.org/10.48550/arXiv.2209.04364>
5. Wartko P, **Bobb JF**, Boudreau DM, McCormack J, Matthews A, Qiu H, Yu O, Hyun N, Lee AK, et al. The PRimary Care Opioid Use Disorders treatment (PROUD) trial: a cluster-randomized implementation trial of nurse care management for opioid use disorder treatment.

6. **Bobb JF**, Idu AE, Qiu H, Yu O, Boudreau DM, Wartko P, et al. Offering nurse care management for opioid use disorder in primary care: impact on acute care utilization in a cluster-randomized implementation trial

### Manuscripts in preparation

1. Boudreau DM, **Bobb JF**, et al. Evaluation of the risk of neural tube defects among live births exposed to maternal prescription opioids during early pregnancy
2. \*Danyang Li, **Bobb JF**. Comparison of spatial spline models and matching methods to adjust for unmeasured spatial confounding for binary exposures
3. **Bobb JF**, Mooney SJ, Cruz MF, Arterburn D, Cook AJ. Distributed lag models for retrospective cohort data with application to a study of built environment and body weight

### Conferences and symposiums (Like presentations grouped)

#### Invited presentations

##### *International*

“Advances in Bayesian kernel machine regression for estimating the health effects of complex environmental mixtures.” Symposium, *Informing environmental health policy on complex mixtures: What we need vs. what we (currently) get from machine learning methods*, International Society of Exposure Science, virtual meeting, 2021

“Bayesian kernel machine regression for estimating the health effects of multi-pollutant mixtures.” International Society for Environmental Epidemiology, Basel, Switzerland, 2013

“Accounting for model uncertainty in estimating the relative risk of mortality associated with heat waves.” Symposium, *Heat or heat waves? Does it matter which epidemiologists study?* International Society for Environmental Epidemiology, Barcelona, Spain, 2011

##### *National*

“Data science challenges of using electronic health record data for public health research,” Department of Biostatistics and Data Science Seminar, Wake Forest University, 2022

“Bayesian kernel machine regression and causal mediation analysis for estimating the health effects of environmental mixtures.” **Bobb JF**, Devick K. Environmental Mixtures Interest Group, NIEHS/NIH, 2022

“Using real-world data to inform the statistical design of the MICARE pragmatic trial,” **Bobb JF**, Sungtaek Son. Mental Health Research Network, Methods Special Interest Group, 2022

“Data science challenges of using electronic health record data for public health research,” Michigan Institute for Data Science (MIDAS), University of Michigan, 2022

“Accounting for spatial confounding in epidemiological studies with individual-level exposures,” University of Michigan Biostatistics Series, 2021

“Pragmatic trials to improve treatment of OUD in primary care using real-world data: PROUD and MI-CARE – unique approaches and lessons learned,” Bradley KE, **Bobb JF**, Wartko P, Bushey M. NIDA Clinical Trials Network Webinar Series: *Using Real World Data in Substance Use Disorder Clinical Research*, 2021

“Accounting for spatial confounding in epidemiological studies with individual-level exposures.”

New York University Biostatistics Series. Webinar, 2021

University of Southern California Biostatistics Series. Webinar, 2021

“Methods to utilize longitudinal EHR and address data connected to the built environment to assess if moving to a different environment affects health.” **Bobb JF**, Cook AJ.

Invited Speed Poster, ENAR Spring Meeting, Philadelphia, PA, 2019

Joint Statistical Meetings, Vancouver, Canada, 2018

“Statistical innovations in pragmatic trials of health-system implementation interventions,” Glass JE, **Bobb JF**, 11th Annual Conference Science Dissemination and Implementation Health, Washington, D.C., 2018

“Statistical challenges in the design of a pragmatic trial of primary care-based treatment for opioid use disorders.” 3rd Seattle Symposium on Health Care Data Analytics, Seattle, WA, 2018

“Bayesian kernel machine regression for estimating the health effects of multi-pollutant mixtures.” Biostatistics Seminar, University of Rochester, 2016

“Bayesian kernel machine regression for estimating the health effects of multi-pollutant mixtures.” Claus Henn B, **Bobb JF**, Valeri L, Coull BA. *Workshop: Statistical Approaches for Assessing Health Effects of Environmental Chemical Mixtures in Epidemiology Studies*, National Institute of Environmental Health Sciences, Research Triangle Park, NC, 2015

“Beyond the one-exposure, one-outcome paradigm for scientific discovery in environmental epidemiology”

Department of Biostatistics, Brown University, Providence, RI, 2015

Department of Biostatistics, University of Pennsylvania, Philadelphia, PA, 2015

Department of Biostatistics, University of Minnesota, Minneapolis, MN, 2015

Department of Statistics, North Carolina State University, Raleigh, NC, 2015

Department of Statistics and Applied Probability, University of California, Santa Barbara, 2015

Department of Biostatistics, University of Massachusetts, Amherst, MA, 2014

Group Health Research Institute, Seattle, WA, 2014

Department of Biostatistics, Columbia University, New York, NY, 2014

Department of Biostatistics, Yale University, New Haven, CT, 2014

“Statistical methods for estimating health effects of simultaneous exposure to multiple pollutants.” Work-in-Progress Webinar, Clean Air Research Center, Environmental Protection Agency, 2013

### *Local*

“Bayesian kernel machine regression for estimating the health effects of multi-pollutant mixtures”

Biostatistics Seminar Series, Fred Hutchinson Cancer Research Center, 2016

Biostatistics Seminar, University of Washington, 2016

“Accounting for uncertainty in estimating the health effects of climate change” Department of Biostatistics, Harvard Chan School, 2013



## Other presentations (selected)

“Accounting for unmeasured spatial confounding via exposure-penalized splines.” Topic contributed session: *Addressing complex inferential challenges with electronic health records data*. Joint Statistical Meetings, Toronto, Canada, 2023

“Incorporating statistical methods to address spatial confounding in large EHR data studies.” ENAR Spring Meeting, 2020

“Statistical challenges in the design of a pragmatic trial of primary care-based treatment for opioid use disorders.” 12th International Conference on Health Policy Statistics, Charleston, SC, 2018

“Identification of acute health conditions during extreme heat events.” Poster, Women in Statistics Conference, Cary, NC, 2014

“Identifying the constellation of emergency health conditions most sensitive to extreme heat.” Poster, ENAR Spring Meeting, Baltimore, MD, 2014

“Bayesian kernel machine regression for estimating the health effects of multi-pollutant mixtures.” Joint Statistical Meetings, Montreal, Canada, 2013

“Integration and benchmarking of state-of-art convergence accelerators of the EM algorithm.” Topic contributed session: *Enhancing the EM Algorithm by Leveraging Modern Advances in Computing*. Joint Statistical Meetings, San Diego, CA, 2012

“Reduced Bayesian hierarchical models: Estimating health effects of simultaneous exposure to multiple pollutants.” Topic contributed session: *Statistical Challenges of Spatial Multi-Pollutant Data in Environmental Epidemiology*. ENAR Spring Meeting, Washington, DC, 2012

“Reduced Bayesian hierarchical models for high-dimensional, clustered data.” Poster, Statistical Methods for Very Large Datasets Conference, Baltimore, MD, 2011

“A Bayesian model averaging approach for estimating the relative risk of mortality associated with heat waves in 105 U.S. cities.”

Joint Statistical Meetings, Miami Beach, FL, 2011, recipient of Statistics in Epidemiology Young Investigator Award

ENAR Spring Meeting, Miami, FL, 2011