

Jennifer Feder Bobb, PhD
Curriculum Vitae
(Updated February 27, 2026)

Biographical and educational information

Jennifer F. Bobb, PhD
Senior Biostatistics Investigator
Kaiser Permanente Washington Health Research Institute (KPWHRI)
1730 Minor Ave, Suite 1360
Seattle, WA 98101-1448
✉ jennifer.f.bobb@kp.org
<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

Senior Biostatistics Investigator, Kaiser Permanente Washington Health Research Institute, September 2025–present

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

Prior

Associate Biostatistics Investigator, Kaiser Permanente Washington Health Research Institute, September 2020–September 2025

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

Assistant Biostatistics 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

Committee of Presidents of Statistical Societies (COPSS) Emerging Leader Award, 2024
Mentee (Danyang Li) recipient of ENAR Distinguished Student Paper Award, 2024
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

Scientific Advisory Committee (SAC), 2025–present
Biostatistics committee on promoting work culture in the hybrid era, 2022–2024
Committee on Student hiring – Identifying Opportunities for Process Improvement, 2023
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)
COPSS Emerging Leader Award Committee, 2026
Annie T Randall Innovator Award Committee, ASA Biometrics Section, 2024, 2025
Conference Session Organizer, International Conference for Health Policy Statistics, 2025
Byar Award Committee, ASA Biometrics Section, 2023, 2024
Conference Session Organizer, Joint Statistical Meetings, 2023, 2024

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

Local service and involvement, UW

Admissions committee member (PhD students), Department of Biostatistics, 2026
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

Chair-Elect/Chair/Past-Chair, Biometrics Section of the American Statistical Association (ASA), 2023/2024/2025

Chair, Byar Award and Early Career Paper Award Committee, ASA Biometrics Section, 2025

Merit grant reviewer, Improving Mental and Behavioral Health Panel, *Patient-centered Outcomes Research Institute (PCORI)*, 2025

Invited member, Committee on Funded Research, American Statistical Association, 2019–2024

Grant reviewer, Special Emphasis Panel/Scientific Review Group Review of a PPG-P01 grant application, *National Heart Lung and Blood Institute, NIH*, October 2023

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

Merit grant reviewer, Combined Children and Youth and Adolescent Alcohol Merit Review panel, PCORI, 2023

Merit grant reviewer, Assessment of Prevention, Diagnosis, and Treatment Options Merit Review panel, 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–Dec. 2025

Reviewer (Full peer review history available on [Web of Science](#)), selected journals:

American Journal of Epidemiology
Annals of Applied Statistics
Biometrics
Biostatistics
BMJ
Environmental Health Perspectives
Epidemiology
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
Statistics in Medicine
Statistical Methods in Medical Research
The American Statistician

Research funding

Ongoing projects

Co-investigator, *Optimizing Opioid Use Disorder Treatment in Prisons: Strategies for Diagnosis and Shared Decision-Making*; 1R01DA064495 (PI: Jack), NIDA; Direct Costs (KPWHRI subaward): \$250,901; 0.05-0.15 FTE, 2025—2030

Co-investigator, *SUD Care Transitions*; 1R01DA062607 (MPI: Hyun, Glass, Wong), NIDA; Direct Costs: \$2,640,907; 0.05-0.10 FTE, 2025–2030

Co-investigator, *Effectiveness of Teen Suicide Prevention with Confidential Care: An Implementation Study Across 30 Primary Care Clinics*; 1R01MH133566 (PI: Lapham), NIMH; Direct Costs: \$1,194,071; 0.10 FTE, 2024–2027

Co-investigator, *Systematic Implementation of Patient-Centered Care for Alcohol Use Trial: Beyond Referral to Treatment (Options Trial)*. R01AA031231 (MPIs: Bradley, Lapham) NIAAA; Direct Costs: \$2,176,969, 0.15 FTE, 2023–2028.

Co-investigator, *Comparative Effectiveness and Safety of Metabolic/Bariatric Surgery, GLP-1, and SGLT-2 Medications for Patients with Obesity and Type 2 Diabetes*, R01DK135515 (MPIs: Arterburn, McCoy), NIDDK; Direct Costs: \$2,148,824, 0.10 FTE, 2024–2027

Co-investigator, *Adult Changes in Thought (ACT) Research Program*, 1U19AG066567-01A1 (PI: McEvoy), NIA; Direct costs: \$46,398,494, 0.02 FTE, 2021–2026

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, 2022–2027

Co-investigator, *Health Systems Node of the NIDA Clinical Trials Network Renewal*, UG1 UG1DA040314-11 (PI: Campbell, Bradley, Binswanger), NIDA; Direct Costs: \$718,296 per year; 0.10 FTE, 2025–2032

Co-investigator, *Patient-Centered Team-Based Primary Care to Treat Opioid Use Disorder, Depression, and Other Conditions (MI-CARE Trial)*, U01 MH121949 (PI: DeBar, Bradley), NIMH; Direct Costs: \$11,457,273, 0.10–0.15 FTE, 2019–02/2026

Co-investigator, *CTN Secondary Papers - Health Systems Node of the NIDA Clinical Trials Network*, UG1 DA040314 (MPIs: Campbell, Bradley), NIDA; Direct Costs: \$171,008, 0.10 FTE, 2024–2/2027.

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, 2017-2/2026

Completed projects

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, 2019–2025

Multiple principal investigator, *SeattleStatSummer for Biomedical Data Science Research Training*, R25LM014210 (mPIs: Othus [Contact PI], Bobb, Chowning), NLM; 0.05 FTE, 2022–2025

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, 2020–2025

Co-investigator, *Digital treatments for opioids and other substance use disorders (DIGITS) in primary care: Observational Analysis of Adaptions to the Intervention*, R01DA047954 (PI: Glass), NIDA; Direct Costs: \$2,504,751, 0.10–0.20 FTE, 2019–2024

Co-investigator, *Digital treatments for opioids and other substance use disorders (DIGITS) in primary care: trial supplement*, 3R01DA047954-05S1 (PI: Glass), NIDA; Direct Costs: \$235,962, 0.10 FTE, 3/1/23–2/28/25

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, 2015–2020

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, 2025–2019

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

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, 2015–2017

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, 2015–2017

Co-investigator, *Elective induction of labor and pregnancy outcomes*, R01 HD071986 (PI: Dublin, Getahun), NICHD; 0.15 FTE, 2013–2017

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, 2015–2016

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; 2015–2016

Co-investigator, *Vulnerability and Adaptation to Heat and Air Pollution in a Changing Climate*, R21 ES022585 (PI: Dominici), NIEHS, 2013–2015

Postdoctoral fellow, *Air Pollution and Pregnancy Outcome in New York City*, R01 ES019955 (PI: Savitz), NIEHS, 2011–2015

Teaching and mentoring responsibilities

Teaching

Short courses

Bobb JF, Coley RY. “Statistical Methods for Harnessing Electronic Health Record Data in Scientific Research,” International Conference on Health Policy Statistics (ICHPS), San Diego, CA, 2025

Bobb JF, Shortreed SM, Coley RY. “Statistical methods for electronic health record data,” American Causal Inference Conference, Seattle, WA, 2024

Bobb JF, Coley RY. “Statistical methods for electronic health record data,” International Conference on Health Policy Statistics (ICHPS), 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

“Statistical methods for pragmatic trials,” Methods Seminar, Mental Health Research Network T32 fellowship program, 2021, 2023, 2025

“Use of propensity scores in (pharmaco)epidemiology research,” Pharmacoepidemiology, University of Washington School of Public Health, 2018, 2020, 2022, 2024

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

“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
Mentoring committee for Noorie Hyun, Biostatistics Division, KPWHRI, 2023–present
Mentoring committee for Nicole Gato, Collaborative Sciences Division, KPWHRI, 2026–present

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

Baihui (Helinda) He, Fall 2025–present, MS student, Biostatistics, University of Washington
Judith (Jingxiu) Zhao, Winter 2025–present, MS student, Biostatistics, University of Washington
Yucheng Zhao, Winter 2025–present, MS student, Statistics, University of Washington (Co-mentoring with Noorie Hyun)
Casey Logan, Summer 2025, undergraduate student, SeattleStatGROWS summer internship program in statistics and data science
Danyang Li, 2021–2025, MS student, Statistics, University of Washington (Fall 2021–Spring 2022); PhD student, Biostatistics, University of Pittsburgh (Fall 2023–2025)
Niyah Thurman, Summer 2024, undergraduate student, SeattleStatGROWS summer internship program in statistics and data science (Co-mentored with Noorie Hyun)
Isabelle Bassler, Summer 2021, undergraduate student, Fred Hutch Pathway Undergraduate Researchers program (Co-mentored with Maricela Cruz)
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–Spring 2024
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

104. Binswanger IA, Yu O, Wartko PD, Addis M, **Bobb JF**, Lee AK, Yarborough BJ, Arnsten J, Glass JE, Northrup TF, Murphy M, Braciszewski JM, Horigian V, Shoup JA, Potter A, Bradley KA

- (2026). Variability in medication treatment of opioid use disorder (OUD) in primary care: comparison of PROUD trial intervention practices and other exemplar practices. *Journal of Substance Use and Addiction Treatment*. <https://doi.org/10.1016/j.josat.2026.209896>
103. Hyun N, Idu AE, Cook AJ, **Bobb AJ** (2026). Increased risk of type I errors for detecting heterogeneity of treatment effects in cluster-randomized trials using mixed-effect models. *BMC Medical Research Methodology*. <https://doi.org/10.1186/s12874-025-02744-6>
 102. Wong ES, Dorsey CN, Beatty TC, **Bobb JF**, Stefanik-Guizlo K, Key DL, Ramaprasan A, Idu AE, Fortney JC, Mogk J, Palazzo L, Caldeiro RM, King D, Garza McWethy A, Glass JE (2026). Economic cost of strategic implementation approaches to increase uptake of digital therapeutics for substance use disorders in a large integrated health system. *PLOS Digital Health*. 8;5(1):e0001145. <https://doi.org/10.1371/journal.pdig.0001145>
 101. *Danyang Li, Cruz MF, Mooney SJ, Cook AJ, **Bobb JF** (2025). Mitigating the risk of bias exacerbation when controlling for unmeasured spatial confounding for binary exposures. *American Journal of Epidemiology*. <https://doi.org/10.1093/aje/kwaf248>
*Received 2024 ENAR Distinguished Student Paper Award
 100. Matson TE, **Bobb JF**, Oliver M, Berger DB, Jack HE, Steel TL, Bradley KA, Hallgren KA (2025). Alcohol consumption reported on routine healthcare screenings is associated with all-cause mortality in primary care patients: a retrospective cohort study. *Alcohol: Clinical and Experimental Research*. <https://doi.org/10.1111/acer.70192>
 99. Bradley KA, Hyun N, Idu A, Yu O, **Bobb JF**, Wartko PD, Weinstein Z, Matthews AG, McCormack J, Lee AK, Samet JH, and PROUD Trial Collaborators on Sex, Race, and Ethnicity: Campbell ANC, Horigian V, Szapocznik J, Zare-Mahrjerdi M, Glass JE, Murphy MT, Arnsten JH, Liu D, Campbell CI, Ellis RL, Simon CB, Beers D, Saxon AJ (2025). Differences in benefits of office based addiction treatment: Secondary analyses across sub-groups in the PROUD randomized controlled implementation trial. *Addictions*. <https://doi.org/10.1111/add.70221>
 98. Matson TE, Johnson E, **Bobb JF**, Graham V, Kiel L, Lee AK, Lapham GT, Caldeiro RM, Bradley KA, Angerhofer JE (2026). Implementing care for cannabis and other drug use in adult primary care: outcomes of a cluster-randomized implementation trial. *American Journal of Preventive Medicine*. Volume 70, Issue 1, Article 108112. <https://doi.org/10.1016/j.amepre.2025.108112>
 97. Matson TE, Navarro MA, Idu A, **Bobb JF**, Patrick BM, Phillips R, Barrett T, Rossi FS, Krawczyk N, Doud R, Rogers K, Davis C, Caldeiro R, Glass JE (2025). Design of a cluster-randomized, hybrid type 1 effectiveness-implementation trial of a care navigation intervention to increase substance use disorder treatment engagement. *Addiction Science & Clinical Practice*. 20(78). <https://doi.org/10.1186/s13722-025-00605-7>
 96. Steel TL, Shaw PA, Bradley KA, Johnson NJ, Hallgren KA, Matson TE, **Bobb JF**, Bosch NA, Afshar M, Burnham EL, Hough CL, Tolles J (In press). Opening the door to more informative hospital trials by ranking treatment experiences. *Annals of the American Thoracic Society*
 95. Lee ML, Jack H, Matson TE, Oliver M, **Bobb JF**, Berger D, Bradley K, Hallgren K (2025). The association between changes in AUDIT-C scores and acute mental health care utilization over the next year in a primary care population. *Alcohol: Clinical and Experimental Research*. <https://doi.org/10.1111/acer.70125>

94. Boudreau DM, **Bobb JF**, Pocobelli G, Cheetham C, Dublin S, Andrade S, Albertson-Junkans L, Griffin M, Lee DK, Raebel M, Hechter R, Smith D, Pawloski P, Toh D, Taylor L, Hua W, Graham D, Ouellet-Hellstrom R, Horn P, Dinatale M, Ceresa C, Soukup M, Ma Y, Trinidad JP (2025). Neural tube defect risk in relation to opioid exposure during early pregnancy. *American Journal of Epidemiology*. <https://doi.org/10.1093/aje/kwaf079>
93. Berger D, Matson TE, Oliver M, Jack H, **Bobb JF**, Bradley K, Hallgren K (2025). Associations between clinical AUDIT-C screens and HDL cholesterol are observed across primary care patient subgroups. *Alcohol: Clinical and Experimental Research*. 49(5):1106—1116. <https://doi.org/10.1111/acer.70038>
92. Jack HE, Berger DB, **Bobb JF**, Oliver MM, Bradley KA, Hallgren KA (2025). Association between change in alcohol use reported during routine healthcare screening and change in subsequent hospitalization: A retrospective cohort study. *Addiction*. 120(5):884—894. <https://doi.org/10.1111/add.16771>
91. **Bobb JF**, Mooney SJ, Cruz MF, Moudon AV, Drewnowski A, Arterburn D, Cook AJ (2025). Distributed lag models for retrospective cohort data with application to a study of built environment and body weight. *Biometrics*. 81(1):ujae166. <https://doi.org/10.1093/biomtc/ujae166>
90. Weinstein ZM, Yu O, Wartko PD, Samet JH, **Bobb JF**, Braciszewski JM, Arnsten JH, Murphy MT, Horigian VE, Stotts AL, Beers D, Bradley K (2024). Does Implementation of Office Based Addiction Treatment by a Nurse Care Manager Increase the Duration of OUD Treatment in Primary Care? A Secondary Analysis of the PROUD Randomized Control Trial 265:112497. *Drug and Alcohol Dependence*. <https://doi.org/10.1016/j.drugalcdep.2024.112497>
89. Lapham GT, Hyun N, **Bobb JF**, Wartko PD, Matthews AG, Yu O, McCormack J, Lee AK, Liu DS, Samet JH, Zare-Mherjerdi M, Braciszewski JM, Murphy MT, Arnsten JH, Horigian V, Caldeiro RM, Addis M, Bradley KA (2024). Impact of nurse care management on office-based opioid use disorder treatment: Three-year outcomes from the PROUD cluster-randomized trial. *JAMA Network Open*. 7(11):e2447447. <https://doi.org/10.1001/jamanetworkopen.2024.47447>
88. Lapham G, **Bobb JF**, Luce C, Oliver MM, Hamilton LK, Hyun N, Hallgren KA, Matson TE (2024). Prevalence of cannabis use disorder among primary care patients with varying frequency of past-year cannabis use. *Journal of General Internal Medicine*. 40:1039–1047. <https://doi.org/10.1007/s11606-024-09061-6>
87. Mogk J, Idu AE, **Bobb JF**, Key D, Wong ES, Palazzo L, Stefanik-Guizlo K, King D, Beatty T, Dorsey CN, Caldeiro RM, Garza Mcwethy A, Glass JE (2024). Prescription digital therapeutics for substance use disorder in primary care: a mixed methods evaluation of a pilot implementation study. *JMIR Formative Research* 2:8:e59088. <https://doi.org/10.2196/59088>
86. **Bobb JF**, Idu AE, Qiu H, Yu O, Boudreau DM, Wartko PD, Matthews AG, McCormack J, Lee AK, Campbell CI, Saxon AJ, Liu DS, Altschuler A, Samet JH, Northrup TF, Braciszewski JM, Murphy MT, Arnsten JH, Cunningham CO, Horigian VE, Szapocznik J, Glass JE, Caldeiro RM, Tsui JI, Burganowski RP, Weinstein ZM, Murphy SM, Nyun N, Bradley KA (2024). Offering nurse care management for opioid use disorder in primary care: impact on emergency and hospital utilization in a cluster-randomized implementation trial. *Drug and Alcohol Dependence*. 261:111350. <https://doi.org/10.1016/j.drugalcdep.2024.111350>
85. Lozano PM, **Bobb JF**, Kapos FP, Cruz M, Mooney SJ, Hurvitz PM, Anau J, Theis K, Cook AJ, Moudon AV, Arterburn D, Drewnowsky A (2024). Residential density is associated with

BMI trajectories in children and adolescents: Findings from the M2H Study. *AJPM Focus*. 3(3):100225. <https://doi.org/10.1016/j.focus.2024.100225>

84. Rosenberg DE, Cruz MF, Mooney SJ, **Bobb JF**, Drewnowski A, Moudon AV, Cook AJ, Hurvitz PM, Lozano P, Anau J, Theis MK, Arterburn DE (2024). Neighborhood built and food environment in relation to glycemic control in people with type 2 diabetes in the Moving to Health Study. *Health & Place*. 86:103216. <https://doi.org/10.1016/j.healthplace.2024.103216>
83. *Qiu H, Cook AJ, **Bobb JF** (2023). Evaluating tests for cluster-randomized trials with few clusters under generalized linear mixed models with covariate adjustment: a simulation study. *Statistics in Medicine*. <http://doi.org/10.1002/sim.9950>
82. Wartko PD, **Bobb JF**, Boudreau DM, Matthews AG, McCormack J, Lee AK, Qiu H, Yu O, Hyun N, Idu AE, Campbell CI, Saxon AJ, Liu DS, Altschuler A, Samet JH, Labelle CT, Zare-Mehrjerdi M, Stotts AL, Braciszewski JM, Murphy MT, Dryden D, Arnsten JA, Cunningham CO, Horigian VE, Szapocznik J, Glass JE, Caldeiro RM, Philips RC, Shea M, Bart G, Schwartz RP, McNeely J, Liebschutz JM, Tsui JI, Merrill JO, Lapham GT, Addis M, PROUD Trial Collaborators, Bradley KA, et al. (2023). The PRimary Care Opioid Use Disorders treatment (PROUD) trial: a cluster-randomized implementation trial of nurse care management for opioid use disorder treatment. *JAMA Internal Medicine*. <https://doi.org/10.1001/jamainternmed.2023.5701>
81. Chubak J, Adler A, **Bobb JF**, Hawkes RJ, Ziebell RA, Pocobelli G, Zerr DM (2023). A randomized controlled trial of animal-assisted activities for pediatric oncology patients: psychosocial and microbial outcomes. *Journal of Pediatric Health Care*. <https://doi.org/10.1016/j.pedhc.2023.09.010>
80. Lapham GT, Matson TE, **Bobb JF**, Luce C, Oliver MM, Hamilton LK, Bradley KA (2023). Prevalence of cannabis use disorder and reasons for use among adults in a US state where recreational cannabis use is legal. *JAMA Network Open*. 6(8):e2328934. <https://doi.org/10.1001/jamanetworkopen.2023.28934>
79. 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>
78. 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>
77. †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>
76. 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>

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Other peer-reviewed scholarly publications

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1. 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, >65K downloads.
2. **Bobb JF**, Zhao H, Varadhan R. `turboEM`: A suite of convergence acceleration schemes for EM and MM algorithms. R package, >65K downloads.
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Submitted manuscripts

1. Glass JE, Wong ES, Beatty T, **Bobb JF**, Brown R, Fishman P, Idu A, Lin JYL, Matson TE, Palazzo L, Ramaprasan A, Zabinsky ZB, Hyun N. Substance use disorder care transitions: study protocol for a mixed-methods study applying multi-state models and qualitative interviews to comprehensively characterize care in a US healthcare system. doi:10.2196/preprints.93043
2. Wartko PD, Idu A, Lee AK, **Bobb JF**, Liu D, McCormack J, Matthews AG, Campbell CI, Horigian VE, Stotts A, Braciszewski JM, Bradley KA. Comparison of two approaches to measuring reach of OUD treatment in primary care across racial and ethnic groups.
3. Binswanger IA, Yu O, Wartko PD, Addis M, **Bobb JF**, Lee AK, Yarborough BJ, Arnsten J, Glass JE, Northrup TF, Murphy M, Braciszewski JM, Horigian V, Shoup JA, Potter A, Bradley KA. Variability in medication treatment of opioid use disorder in primary care: comparison of PROUD trial intervention practices and other exemplar practices.
4. Kasinathan B, Matson T, Oliver M, **Bobb JF**, Berger D, Hallgren K, Jack H. Association of unhealthy alcohol use reported in routine outpatient screening with 30-day hospital readmission risk.
5. **Bobb JF**, Son S, Anderson M, DeBar L, Bradley KA. Using electronic health record data in pragmatic trials: selecting an estimand and avoiding bias when the outcome assessment process is uncontrolled
6. Lee M, Berger D, Jack HE, Oliver M, Matson TE, Frost MC, **Bobb JF**, Bradley KA, Hallgren KA. Changes in AUDIT-C scores in a primary care population correspond with changes in HDL cholesterol.

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

“Methods to utilize longitudinal EHR and address data connected to the built environment to assess if moving to a different environment affects health.” Joint Statistical Meetings, Vancouver, Canada, 2018

“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

“Advancing evidence for opioid use disorder treatments through real-world data and novel statistical methods,” Joint Statistical Meetings, Nashville, 2025

“Improving statistical practice for pragmatic trials that leverage real-world data to evaluate health system interventions addressing substance use disorders”

Center for Biostatistics, Icahn School of Medicine at Mount Sinai, 2025

Clinical Trials Network Health Systems Node Monthly Seminar, 2025

“Bayesian kernel machine regression for estimating the health effects of environmental mixtures: Methods, software, and practical considerations,” CDC Workshop on Applied Epidemiology and Environmental Health, Atlanta, GA, 2024

“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.” Invited Speed Poster, ENAR Spring Meeting, Philadelphia, PA, 2019

“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)

“Statistical challenges of pragmatic randomized trials with intervention-dependent outcome assessment processes.” International Conference on Health Policy Statistics, San Diego, CA, 2025

“Distributed lag models for retrospective cohort data with application to an EHR data study of built environment and body weight.” Topic contributed session: *Novel Statistical Methods for Analyzing Complex Environmental Data and Health Impacts*. Joint Statistical Meetings, Portland, OR, 2024

“Statistical challenges of pragmatic randomized trials with intervention-dependent outcome assessment processes.” American Causal Inference Conference, Seattle, WA, 2024

“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