

# CURRICULUM VITAE

Andrea Jean Cook

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## 1. BIOGRAPHICAL INFORMATION:

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Affiliate Professor  
Dept. of Biostatistics, University of Washington

## 2. EDUCATION:

### University of Washington, Seattle, WA

B.S. in Applied Computational Mathematical Sciences *Graduation: June 2001*  
· Minor: Mathematics  
· Cum Laude

### Harvard University, Boston, MA

M.S. in Biostatistics *Graduation: June 2003*  
Ph.D. in Biostatistics *Graduation: June 2005*  
· Dissertation Topic:  
Spatial Cluster Detection for discrete, survival, and longitudinal outcomes  
· Advisor: Dr. Yi Li

## 3. LICENSURE:

Not applicable

## 4. PROFESSIONAL POSITIONS:

Exchange Research Assistant Karolinska Institute, Stockholm, Sweden	Jun 2003 to Aug 2003
Research Assistant Dept of Biostatistics, Harvard School of Public Health, Boston, MA	Sep 2003 to Jun 2005
Research Scientist III Department of Biostatistics, University of Washington, Seattle, WA	Jul 2005 to May 2006
Assistant Investigator Division of Biostatistics, Kaiser Permanente Washington Health Research Institute,* Seattle, WA	May 2006 to Apr 2012
Affiliate Assistant Professor Department of Biostatistics, University of Washington, Seattle, WA	Jan 2007 to Jun 2013
Associate Investigator Division of Biostatistics, Kaiser Permanente Washington Health Research Institute,* Seattle, WA	May 2012 to Sep 2016
Affiliate Associate Professor Department of Biostatistics, University of Washington, Seattle, WA	Jul 2013 to Jul 2018
Senior Biostatistics Investigator Division of Biostatistics, Kaiser Permanente Washington Health Research Institute,* Seattle, WA	Oct 2016 to Present
Affiliate Professor Department of Biostatistics, University of Washington, Seattle, WA	Jul 2018 to Present
Manager Biostatistics Investigator Division of Biostatistics, Kaiser Permanente Washington Health Research Institute,* Seattle, WA	Jul 2022 to Present

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\*Kaiser Permanente acquired Group Health in February 2017, at which point Group Health Research Institute became Kaiser Permanente Washington Health Research Institute.

**5. HONORS, AWARDS, and SCHOLARSHIPS:**

Deans List, Every quarter attended at Univ. of Wash., 1998-2001  
 Annual Deans List, Every year attended at Univ. of Wash., 1999-2001  
 VIGRE Grant Recipient, Univ. of Wash., 2000  
 Golden Key National Honor Society, 2000 and 2001  
 Cum Laude, Univ. of Wash., 2001  
 NIH Traineeship in Environmental Health, Harvard Univ., 2001-2003  
 Distinction in Teaching Award, Harvard Univ., 2002 and 2003  
 ENAR Student Paper Award 2005  
 JSM Environmental Student Paper Award runner-up 2005  
 NIH Travel Award, ENAR Young Investigators Meeting, Washington DC, 2007  
 Faculty Mentoring Award, GHRI 2013

**6. OTHER PROFESSIONAL ACTIVITIES**

National Committee Member:

- Member, Protocol Review Committee, Resuscitation Outcomes Consortium, 2006-2008
- Representative at Large, WNAR, 2010-2012
- Conference Co-Organizer, First Seattle Symposium on Health Care Data Analytics, 2014
- Conference Co-Organizer, Second Seattle Symposium on Health Care Data Analytics, 2016
- Member/Grader, WNAR Student Paper Competition, 2016
- Conference Co-Organizer, Third Seattle Symposium on Health Care Data Analytics, 2018
- Member, Educational Advisory Committee, ENAR, 2020
- Member/Grader, ASA Biometrics Section Early Career Paper Award, 2023
- Publications Officer, ASA Biometrics Section, 2025-2027
- Vice-Chair, ASA Council of Sections Governing Board (COSGB), 2025-2027

Advisory and Data Safety Monitoring Boards:

- Member, Data Safety Monitoring Board, Clinical Trial, Improving sleep for teens taking antidepressant medications through counseling (SleepWell), PI: Clarke (Kaiser Permanente Center for Health Research in Portland), 2015-2018.
- Member, Data Safety Monitoring Board, Clinical Trial, The Hospice Advance Dementia Symptom Management and Quality of Life Trial (HAS-QOL) PI: Brody (New York University), 2019 to 2023.
- Member, Data Safety Monitoring Board, Pragmatic Clinical Trial Network, VA-DOD-NIH Pain Management Collaboratory, 2019 to present.
- Member, Data Safety Monitoring Board, Clinical Trial, Effectiveness of an mHealth psychosocial intervention to prevent transition from acute to chronic postsurgical pain in adolescents (SurgeryPal) PIs: Rabbitts and Palermo (Seattle Children's Research Institute), 2020 to present.
- Member, Data Safety Monitoring Board, Clinical Trial, Effectiveness of Wellness Intervention for Smokers with HIV (WISH) PIs: Catz, McClure, and Crothers (UC Davis), 2020 to present.

NIH Grant Review Panels

- REsearching COVID to Enhance Recovery (RECOVER) Initiative Coordinating Center, NIH, 2021

Referee for:

- Biometrics, Biostatistics, Communication in Statistics, Statistics in Medicine, Critical Care, International Journal of Health Geographics, Preventing Chronic Disease, Prevention Science, Journal of the National Cancer Institute (JNCI), and Vaccine

Memberships:

- American Statistical Association (ASA)
- International Biometric Society WNAR

Conference Organizer:

- Seattle Symposium Health Care Data Analytics 2014, 2016, 2018

Conference Session Organizer:

- WNAR 2010: Statistical Methods for Vaccine Safety
- MSPW 2010: Postmarketing drug surveillance
- Seattle Symposium Health Care Data Analytics 2014, 2016, 2018

Conference Session Chairs:

- ENAR 2009 and 2010
- WNAR/IBC 2015
- Seattle Symposium Health Care Data Analytics 2014, 2016, 2018

**7. BIBLIOGRAPHY:****a) Peer-reviewed research articles**

1. **Cook AJ**, Gold DR, and Li Y (2007) Spatial Cluster Detection for Censored Outcome Data *Biometrics* 63(2): 540-549
2. Brasel KJ, Bulger E, **Cook AJ**, Morrison LJ, Newgard CD, Tisherman SA, Kerby JD, Coimbra R, Hata JS, Hoyt DB and the ROC Investigators (2008) Hypertonic resuscitation: Design and implementation of a prehospital intervention trial *J Am Coll Surg* 206(2): 220-232
3. Rea TD, **Cook AJ**, and Hallstrom A (2008) CPR during ischemia and reperfusion: a model for survival benefits *Resuscitation* 77(1): 6-9
4. Green BB, Ralston JD, Fishman PA, Catz SL, **Cook A**, Carlson J, Tyll L, Carrell D, and Thompson RS (2008) Electronic Communications and Home Blood Pressure Monitoring (e-BP) study: Design, delivery, and evaluation framework *Contemp Clin Trials* 29(3): 376-395
5. Green BB, **Cook AJ**, Ralston JD, Fishman PA, Catz SL, Carlson J, Tyll L, Carrell D, Larson EB, and Thompson RS (2008) Effectiveness of home blood pressure monitoring, Web communication, and pharmacist care on hypertension control: a randomized controlled trial *JAMA* 299(24): 2857-2867
6. Stiell IG, Callaway C, Davis D, Terndrup T, Powell J, **Cook A**, Kudenchuk PJ, Daya M, Kerber R, Idris A, Morrison LJ, Aufderheide T, and the ROC investigators (2008) Resuscitation Outcomes Consortium (ROC) PRIMED Cardiac Arrest Trial Methods Part 2: Rationale and Methodology for "Analyze Later vs Analyze Early" protocol *Resuscitation* 28(2): 186-195
7. Bulger EM, Schmidt TA, **Cook AJ**, Brasel KJ, Griffiths DE, Kudenchuk P, Davis D, Bardarson B, Idris AH, Aufderheide TP, and the ROC Investigators (2009) The Random Digit Dialing Survey as a Tool for Community Consultation for Research involving the Emergency Medicine Exception from Informed Consent *Ann Emerg Med* 53(3): 341-350
8. Carney PA, Kettler M, **Cook AJ**, Geller BM, Karliner L, Miglioretti DL, Aiello Bowles E, Buist DS, Gallagher T, and Elmore JG (2009) An assessment of the likelihood, frequency, and content of communication between radiologists and women receiving screening and diagnostic mammography *Acad Radiol* 16(9):1056-1063
9. **Cook AJ**, Gold DR, and Li Yi (2009) Spatial Cluster Detection for Repeatedly Measured Outcomes while Accounting for Residential History *Biom J* 51(5):801-818
10. Cherkin DC, Sherman KJ, Kahn J, Erro JH, Deyo RA, Haneuse SJ, and **Cook AJ** (2009) Effectiveness of focused structural massage and relaxation massage for chronic low back pain: Protocol for a randomized clinical trial *Trials* 10(1):96
11. Gallagher TH, **Cook AJ**, Brenner J, Carney PA, Miglioretti DL, Geller B, Kerlikowske K, Onega T, Rosenburg RD, Yankaskas B, Lehman CD, and Elmore JG (2009) Disclosing harmful mammography errors to patients *Radiology* 253(2):443-452
12. Rea TD, **Cook AJ**, Stiell IG, Powell J, Bigham B, Callaway CW, Aufderheide TP, Morrison L, Terndrup TE, Beaudoin T, Wittwer L, Davis D, Idris A, Nichol G and Resuscitation Outcomes Consortium Investigators (2010) Predicting Survival following Out-of-hospital Cardiac Arrest: Role of the Utstein Data Elements *Ann Emerg Med* 55(3): 249-257
13. Sherman KJ, Cherkin DC, **Cook AJ**, Hawkes RJ, Deyo RA, Wellman R, and Khalsa PS (2010) Comparison of yoga versus stretching for chronic low back pain: protocol for the Yoga Exercise Self-care (YES) trial *Trials* 11(1): 36
14. **Cook AJ**, Elmore JG, Miglioretti DL, Sickles EA, Aiello Bowles EJ, Cutter GR, and Carney PA (2010) Decreased accuracy in interpretation of community-based screening mammography for women with multiple clinical risk factors *J Clin Epidemiol* 63(4): 441-451
15. Sherman KJ, Ludman EJ, **Cook AJ**, Hawkes RJ, Roy-Byrne PP, Bentley S, Brooks MZ and Cherkin DC (2010) Effectiveness of therapeutic massage for generalized anxiety disorder: a randomized controlled trial *Depress Anxiety* 27(5):441-450
16. Grow HM, **Cook AJ**, Arterburn DE, Saelens BE, Drewnowski A, and Lozano P (2010) Child Obesity associated with social disadvantage of children's neighborhoods *Soc Sci Med* 71(3):584-591

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18. **Cook AJ**, Li Yi, Arterburn D, and Tiwari RC (2010) Spatial cluster detection for weighted outcomes using cumulative geographic residuals *Biometrics* 66(3):783–792
19. Green BB, Anderson ML, Ralston JD, Catz S, Fishman PA, and **Cook AJ** (2011) Patient Ability and Willingness to Participate in a Web-Based Intervention to Improve Hypertension Control *J Med Internet Res* 13(1):e1
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22. Li L, Kulldorff M, Nelson JC, and **Cook AJ** (2011) A propensity score-enhanced sequential analytic method for comparative drug safety surveillance *Stat Biosci* 3:45
23. Moudon AV, **Cook AJ**, Ulmer J, Hurvitz PM, Drewnowski A (2011) A neighborhood wealth metric for use in health studies *Am J Prev Med* 41(1):88-97
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59. Nelson JC, Wellman R, Yu O, **Cook AJ**, Maro J, Oullet-Hellstrom R, Boudreau D, Floyd J, Heckbert S, Pinheiro S, Reichman M, and Shoaibi A (2016) A synthesis of current surveillance planning methods for the sequential monitoring of drug and vaccine adverse effects using electronic health care data *eGEMs* 4(1):1219
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  77. **Cook AJ**, Wellman RD, Marsh T, Shoaibi A, Tiwari, R, Nguyen, M, Boudreau D, Weintraub ES, Jackson L, and Nelson JC (2019) Applying sequential surveillance methods that use regression adjustment or weighting to control confounding in a multisite, rare-event, distributed setting: Part 2 in-depth example of a re-analysis of the measles-mumps-rubella-varicella combination vaccine and seizure risk. *J Clin Epidemiol* 113:114-122.
  78. Green BB, Anderson ML, **Cook AJ**, Chubak J, Fuller S, Kimbel KJ, Kullgren JT, Meenan RT, Vernon SW (2019) Financial Incentives to Increase Colorectal Cancer Screening Uptake and Decrease Disparities: A Randomized Clinical Trial. *JAMA Netw Open* 2(7):e196570.
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89. Buszkiewicz JH, Bobb JF, Hurvitz PM, Arterburn D, Moudon AV, **Cook A**, Mooney SJ, Cruz M, Gupta S, Lozano P, Rosenberg DE, Theis MK, Anau J, and Drewnowski (2021) Does the built environment have independent obesogenic power? Urban form and trajectories of weight gain *Int J Obes* 45(9): 1914-1924.
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112. Qiu H, **Cook AJ**, and Bobb JF (2024) Evaluating tests for cluster-randomized trials with few clusters under generalized linear mixed models with covariate adjustment: a simulation study *Stat Med* 43(2):201-215.
113. Hsu C, Williamson BD, Becker M, Berry B, **Cook AJ**, Derus A, Estrada C, Gacuiri M, Kone A, McCracken C, McDonald B, Piccorelli AV, Senturia K, Volney J, Wilson KB, and Green BB (2024) Engaging staff to improve COVID-19 vaccination response at long-term care facilities (ENSPIRE): A cluster randomized trial of co-designed, tailored vaccine promotion materials *Contemp Clin Trials* 136:107403.
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119. Li K, Emerman I, **Cook AJ**, Fireman BH, Sundaram M, Tseng HX, Weintraub ES, Yu O, Nelson JL, Shi X (2024) Using Double Negative Controls to Adjust for Healthy User Bias in a Recombinant Zoster Vaccine Safety Study *Am J Epidemiol* epub: doi: 10.1093/aje/kwae439.
120. Bobb J, Mooney S, Cruz M, Vernez Moudon A, Drewnowski A, Arterburn D, and **Cook A** (2024) Distributed lag models for retrospective cohort data with application to a study of built environment and body weight *Biometrics* In Press

\* indicates student supervised by Cook

#### b) Other Peer-reviewed Scholarly Publications:

1. **Cook, A.J.** and Li, Y. (2008) Rejoinder to: Spatial Cluster Detection for Censored Outcome Data, *Biometrics* 64(4): 1289-1292.
2. Drewnowski, A., Aggarwal, A., **Cook, A.J.**, Stewart, O., and Moudon, A.V. (2016) Rejoinder to: Geographic disparities in Healthy Eating Index scores (HEI-2005 and 2010) by residential property values: Findings from Seattle Obesity Study (SOS) *Prev Med* 85:117-118.

#### c) Books and book chapters:

Not applicable

#### d) Other Non-peer-reviewed scholarly publications:

1. **Cook, A.J.**, Wellman, R.D., Tiwari, R.C., Li, L., Heckbert, S., Marsh, T., Heagerty, P., and Nelson, J.C. (2011) Mini-Sentinel Methods Development: Statistical approaches for group sequential monitoring of postmarketing safety surveillance data: Overview and simulation evaluation of methods applicable to the Mini-Sentinel surveillance project, *FDA's Sentinel Initiative: Project Report*.

2. **Cook, A.J.**, Wellman, R.D., Marsh, T., Tiwari, R.C., Nguyen, M.D., Russek-Cohen, E., Jiang, Z., and Nelson, J.C. (2012) Mini-Sentinel Methods Development: Statistical Methods for Estimating Causal Risk Differences in the Distributed Data Setting for Postmarket Safety Outcomes, *FDA's Sentinel Initiative: Project Report*.
3. **Cook, A.J.**, Wellman, R.D., Shoaibi, A., Tiwari, R.C., Boudreau, D., Goonesekera, S., Marsh, T.L., and Nelson, J.C. (2013) Mini-Sentinel Methods Development: Feasibility of New Mini-Sentinel Group Sequential Monitoring Methods in a Distributed Setting - Implementation in Practice, *FDA's Sentinel Initiative: Project Report*.
4. DeLong, E., **Cook, A.**, NIH Biostatistics/Design Core. (2014) Unequal Cluster Sizes in Cluster-Randomized Clinical Trials. *NIH Collaboratory Living Textbook*; Available from: [https://www.nihcollaboratory.org/Products/Varying-cluster-sizes\\_V1.0.pdf](https://www.nihcollaboratory.org/Products/Varying-cluster-sizes_V1.0.pdf).
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7. Xu, S., Shetterly, S., **Cook, A.J.**, Raebel, M.A., Goonesekera, S., Shoaibi, A., Frimpong, E. Roy, J., Fireman, B., and McEvoy, B. (2014) Mini-Sentinel Methods Development: Statistical Methods for Improving Confounder Adjustment for Emergent Treatment Comparison, *FDA's Sentinel Initiative: Project Report*.
8. **Cook, A.**, NIH Biostatistics/Design Core. (2015) Small-Sample Robust Variance Correction for Generalized Estimating Equations for Use in Cluster Randomized Clinical Trials. *NIH Collaboratory Living Textbook*; Available from: [https://www.nihcollaboratory.org/Products/Variance-correction-for-GEE\\_V1.R0.pdf](https://www.nihcollaboratory.org/Products/Variance-correction-for-GEE_V1.R0.pdf).
9. **Cook, A.J.**, Wellman, R.D., Shoaibi, A., Tiwari, R.C., Heckbert, S.R., Li, L., Izem, R., Zhang, R., and Nelson, J.C. (2015) Mini-Sentinel Methods Development: Safety Signaling Methods for Survival Outcomes to Control for Confounding in the MSDD, *FDA's Sentinel Initiative: Project Report*.
10. **Cook, A.J.**, Wellman, R.D., Xu, S., Izem, R., Zhang, R., Nguyen, M., Tiwari, R.C., Heckbert, S.R., Gruber, S., and Nelson, J.C. (2016) Mini-Sentinel Methods Development: Comparing Different Cox PH confounder adjustment methods including direct adjustment, propensity score adjustment (directly or through splines), and propensity score stratification in the setting of multiple sites, *FDA's Sentinel Initiative: Project Report*.
11. **Cook, A.J.**, Li, F., Murray, D.M., DeLong, E.R. (2018) Alternative Cluster Randomized Designs. *NIH Collaboratory Living Textbook*; Available from: <http://rethinkingclinicaltrials.org/chapters/design/analysis-plan-top/alternative-cluster-randomized-designs/>.
12. Green BB, Anderson ML, **Cook AJ**, et al. (2021) Comparing the Effectiveness of Home, Clinic, and Kiosk Blood Pressure Checks for Diagnosing High Blood Pressure – The BP-CHECK Study [Internet]. Washington (DC): Patient-Centered Outcomes Research Institute (PCORI); 2021 Aug. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK605480/> doi: 10.25302/08.2021.CER.151132979

#### e) Submitted Manuscripts:

1. **Cook AJ**, Wellman RD, Marsh T, Tiwari RC, Nguyen MD, Russek-Cohen E, Peng Y, and Nelson JC Estimating risk differences using large healthcare data networks for medical product postmarket safety outcomes in a distributed data setting and allowing for active postmarket surveillance
2. Danyang L, Cruz MF, Mooney SJ, **Cook AJ**, and Bobb JF Comparison of Spatial Spline Models and Matching Methods to Adjust for Unmeasured Spatial Confounding for Binary Exposures
3. Hyun NE, Idu A, **Cook A**, and Bobb J Increased risk of type I errors for detecting heterogeneity of treatment effects in cluster-randomized trials using mixed-effect models

#### 8. PATENTS AND OTHER INTELLECTUAL PROPERTY:

Not Applicable

**9. FUNDING HISTORY:****a) Funded Projects**

1. Resuscitation Outcomes Consortium (ROC) Data Coordinating Center (5U01HL077863-04), PI: Emerson, NHLBI, Co-I, 0.20 - 1.00 FTE, 07/01/2005-04/30/2009.
2. Understanding Variability in Community Mammography (5R01CA107623-06), PI: Elmore, NCI, Co-I, 0.10 - 0.20 FTE, 05/01/2006-04/30/2010.
3. Electronic Communications and Home B.P. Monitoring (5R01HL075263-04), PI: Green, NHLBI, Co-I, 0.20 FTE, 05/1/2006-05/31/2008.
4. Effect of Massage on Chronic Low Back Pain (5R01AT001927-04), PI: Cherkin, NCCAM, Co-I, 0.10 - 0.15 FTE, 09/30/2005-08/31/2010.
5. A Partly Conditional Survival Approach for Modeling the Time-Varying Association Between Breast Density and Breast Cancer Risk (263-MQ-612311), PI: Miglioretti, NCI, Co-I, 0.20 FTE, 09/20/2006-09/19/2007.
6. Therapeutic Massage for Generalized Anxiety Disorder (5R21AT002560-03), PI: Sherman, NCCAM, Co-I, 0.05 FTE, 09/30/2006-08/31/2009.
7. Effect of Yoga Versus Stretching on Chronic Back Pain (5U01AT003208-03), PI: Sherman, NCCAM, Co-I, 0.05-0.20 FTE, 09/30/2006-08/31/2010.
8. Food Environment, Diet Quality, and Disparities in Obesity (1R01DK076608-01A1), PI: Drewnowski, NIDDK, Co-I, 0.20 FTE, 03/01/2008-02/28/2010.
9. Development of a Versatile Geospatial Database within the CRN - CRN Pilot: Cancer Research Network Across Health Care Systems (5U19CA079689-10), PI: Wagner, NCI, Project PI, 0.10 FTE, 05/01/2008-04/30/2009.
10. Review of Statistical Methods for Post-Marketing Medical Product Safety (HHSF223200S31324P), PI: Nelson, FDA, Co-I, 0.10 FTE, 09/19/2008-03/18/2009.
11. Training doctors to disclose unanticipated outcomes to patients: Randomized Trial (R01HS16506-01), PI: Gallagher, AHRQ, Co-I, 0.05-0.15 FTE, 09/30/2008-09/29/2013.
12. Dosing Study of Massage for Neck Pain (1R01AT004411-01A2), PI: Sherman, NCCAM, Co-I, 0.10-0.30 FTE, 6/1/2009-2/28/2013.
13. Prospective Drug Safety Surveillance using Sequential Analytic Methods: Two Approaches for Confounding Adjustment (LI09OMOP1), PI: Li, Foundation for NIH, Site PI, 0.20 FTE, 09/01/2009-08/31/2010.
14. e-COMPARE: Comparing Pharmacist and Health Educator Web-based Care for Metabolic Syndrome (1RC1HL100590-01), PI: Green, NHLBI, Co-I, 0.05 FTE, 09/30/2009-07/31/2011.
15. Long-Term Outcomes and Costs of Web-Based Hypertension Care (2R01HL075263-05), PI: Green, NHLBI, Co-I, 0.05 FTE, 12/01/2009-11/30/2013.
16. Efforts to Develop the Sentinel Initiative: Sequential Testing Methods Development (Mini-Sentinel Task Order), PI: Platt, FDA, Task Order PI, 0.30 FTE, 02/01/2010-02/28/2011.
17. Enhancing current sequential analytic techniques to improve causal inference (Mini-Sentinel Task Order), PI: Platt, FDA, Task Order PI, 0.30 FTE, 03/01/2011-01/31/2012.
18. Food Environment, Diet Quality, and Disparities in Obesity II (R210086001), PI: Drewnowski, NIDDK, Co-I, 0.10-0.30 FTE, 04/15/2011-02/29/2016.
19. Comparison of CAM and Conventional Mind-Body Therapies for Chronic Back Pain (R01AT006226), PI: Cherkin, NCCAM, Co-I, 0.05-0.15 FTE, 08/01/2011-05/31/2015.
20. New Sequential Methods in the Distributed Data Setting, PI: Platt, FDA (Mini-Sentinel Task Order), Task Order PI, 0.30 FTE, 06/01/2012-05/31/2013.
21. FDA Sentinel Emergent Treatment Task Order (Mini-Sentinel Task Order), PI: Platt, FDA (Mini-Sentinel Task Order), Co-I, 0.10 FTE, 09/01/2012-12/31/2013.
22. Vaccine Safety Datalink(VSD) Project: VSD Project Infrastructure Activities (200-2012-53421), PI: Jackson, CDC, Co-I, 0.10-0.20 FTE, 09/28/2012-09/27/2017.
23. Health Care Systems Research Collaboratory - Coordinating Center (U54 AT007748), PI: Hernandez, NCCAM, Co-I, 0.15 FTE, 09/30/2012-08/31/2017.

24. Evaluation of a Patient-Centered Risk Stratification Method for Improving Primary Care for Back Pain (PCORI Pragmatic Trial), PI: Cherkin, PCORI, Co-I, 0.05-0.10 FTE, 03/01/2013-11/30/2016.
25. Systems of Support (SOS) to Increase Colon Cancer Screening and Follow-up (R01 CA121125), PI Green, NCI, Co-I 0.05-0.10 FTE, 09/01/2013-06/30/2019.
26. Safety Signaling Methods for Survival Outcomes to Control for Confounding (Mini-Sentinel Task Order), PI: Platt, FDA, Task Order PI, 0.30 FTE, 09/01/2013-01/31/2015.
27. Oral Health 4 Life: Promoting Oral Health among Tobacco Quitline Callers (U01 DE024462), PI: McClure, NIDCR, Co-I, 0.05 FTE, 08/01/2014-06/30/2017.
28. Comparison of safety signaling methods for survival outcomes to control for confounding in the MSDD (Mini-Sentinel Task Order), PI: Platt, FDA, Task Order PI, 0.30 FTE, 05/01/2015-10/31/2016.
29. Food Environment, Diet Quality and Disparities in Obesity II (2R01 DK076608-08A1), PI: Drewnowski, NIDDK, Co-I, 0.05-0.15 FTE, 12/1/2015-7/31/2020.
30. Ensuring Pragmatic and Appropriate Learning within Health Care Delivery Systems: Design, Analysis, and Interpretation of Longitudinal Cluster Randomized Trials (ME-1507-31750), PI: Heagerty, PCORI, Co-I, 0.15 FTE, 08/01/2016-05/31/2019.
31. Blood Pressure Checks for Diagnosing Hypertension (BP-CHECK) (CER-1511-32979), PI: Green, PCORI, Co-I, 0.05-0.10 FTE, 11/1/2016-11/1/2019.
32. Moving to Health: How Changing Built Environments Impact Weight and Glycemic Control (R01 DF114196), PI: Arterburn, NIDDK, Co-I, 0.15 FTE, 09/15/2017-06/30/2022.
33. NIH Health Care Systems Research Collaboratory Coordinating Center (U24 AT009676), PI: Hernandez, NCCIH, Co-I, 0.10 FTE, 09/15/2017-08/31/2022.
34. Vaccine Safety Datalink (VSD) Project: Infrastructure Activities (200-2012-53421), PI: Jackson, CDC, Co-I, 0.10 FTE, 09/28/2017-09/27/2022.
35. Randomized Trial on Pain Self-Management Training to Support Prescription Opioid Taper (R01 DA044970), PI: Sullivan, NIDA, Site PI, 0.05-0.15 FTE, 03/15/2018-12/31/2022.
36. Randomized Trial to Reduce Sitting Time and Improve Cardiometabolic Health in Obese Older Adults (R01 HL132880), PI: Rosenburg, NHLBI, Co-I, 0.05-0.10 FTE, 06/01/2018-12/31/2023.
37. Reducing CNS-active Medications to Prevent Falls and Injuries in Older Adults (U01 CE002967), PI: Phelan, CDC, Co-I, 0.10-0.20 FTE, 09/30/2018-12/31/2023.
38. NIH HEAL Coordinating Center (U24 AT009676), PI: Hernandez, NCCIH, Co-I, 0.10 FTE, 09/28/2019-08/31/2024.
39. Pragmatic Trial of Acupuncture for Chronic Low Back Pain in Older Adults (UH3 AT010739), PIs: DeBar and Cook, NCCIH, MPI, 0.10-0.30 FTE, 9/28/2019-8/31/2025.
40. Tailored Non-Pharmacotherapy Services for Chronic Pain: Testing Scalable and Pragmatic Approaches (UH3 AG067493), PI: DeBar, NIA, Site PI, 0.10-0.30 FTE, 9/30/2019-8/31/2025.
41. Engaging Staff to Improve COVID-19 Vaccination Rates at Long Term Care Facilities (ENSPIRE), PIs: Hsu and McCracken, PCORI, Co-I, 0.10-0.15, 8/1/2021 - 1/31/2023.
42. NIH Health Care Systems Research Collaboratory Coordinating Center (U24 AT009676), PI: Hernandez, NCCIH, Co-I, 0.10 FTE, 09/1/2022-08/31/2028.
43. Vaccine Safety Datalink (VSD) Project: Infrastructure Activities (200-2012-53421), PI: Jackson, CDC, Co-I, 0.10 FTE, 09/28/2022-09/27/2027.
44. De Pie y a Movernos Study: Promoting Physical Activity in Older Latinx Adults, PI: Rosenberg, NIA, Co-I, 0.05 FTE, 9/1/2023-8/31/2027.

## b) Pending Applications

### 10. CONFERENCES and SYMPOSIUMS:

1. "Detecting Spatial Clustering in Matched Case-Control Studies", Harvard Environmental Statistics Symposium, Sheffield, MA (Nov 2004)
2. \* "Detecting Spatial Clustering for Binary and Failure Time Outcomes", Group Health Research Institute Seminar, Seattle, WA (Feb 2005)
3. \* "Detecting Spatial Clustering for Binary and Failure Time Outcomes", University of Washington, Department of Biostatistics Seminar, Seattle, WA (Feb 2005)

4. \* “Detecting Spatial Clustering for Binary and Failure Time Outcomes”, Oregon State University, Department of Public Health Seminar, Corvallis, OR (Mar 2005)
5. “Detecting Spatial Clustering in Matched Case-Control Studies”, ENAR Student Awards Session, Austin, TX (Mar 2005)
6. “Detecting Spatial Clustering for Matched Case-Control Studies”, JSM Environmental Student Awards Session, Minneapolis, MN (Aug 2005)
7. \* “Spatial Cluster Detection for Repeated Measures Outcomes”, University of Washington, Department of Biostatistics Seminar, Seattle, WA (Nov 2006)
8. “Spatial Cluster Detection for Repeated Measures Outcomes”, JSM, Salt Lake City, UT (Aug 2007)
9. “Spatial Cluster Detection for Repeated Measures Outcomes”, ENAR, Crystal City, VA (Mar 2008)
10. “Spatial Cluster Detection for Weighted Outcomes using Cumulative Geographic Residuals”, ENAR, San Antonio, TX (Mar 2009)
11. \* “Spatial Cluster detection for Censored Outcomes”, International Conference on Financial Statistics and Financial Econometrics - Nonparametric Modeling and Its Application, Session: Censored Data Analysis with High Dimensional Covariates, Chengdu, China (Jul 2009)
12. “Methods for Post-marketing vaccine safety surveillance: The Vaccine Datalink experience”, Group Health Research Institute Seminar, Seattle, WA (Oct 2008)
13. \* “Incorporating confounder adjustment into methods for monitoring post-licensure vaccine safety”, Pediatric Academic Society Meeting, Session: Statistical Advances for the Evaluation of Childhood Vaccines, Baltimore, MD (May 2009)
14. “Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations with application in Post-Marketing Vaccine/Drug Surveillance”, University of Washington, Department of Biostatistics Seminar, Seattle, WA (Mar 2010)
15. “Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations with application in Post-Marketing Vaccine/Drug Surveillance”, ENAR, New Orleans, LA (Mar 2010)
16. \* “Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations with application in Post-Marketing Vaccine/Drug Surveillance”, MSPW, Session: Post-marketing drug safety, Ball State University, Muncie, IN (May 2010)
17. \* “Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations with application in Post-Marketing Vaccine/Drug Surveillance”, WNAR, Session: Statistical Methods for Vaccine Safety, Seattle, WA (Jun 2010)
18. \* “Sequential Monitoring Task Order: Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations”, FDA Mini-sentinel webinar (Jun 2010)
19. “Comparison of statistical approaches for Group Sequential Monitoring: simulation results and recommendations”, VSD Annual Meeting, Portland, OR (Apr 2011)
20. \* “Comparison of statistical approaches for Group Sequential Monitoring: simulation results and recommendations”, FDA Mini-Sentinel Webinar (May 2011)
21. “Challenges in Conducting Sequentially Monitored Medical Product Safety Studies Using Electronic Health Care Utilization Data”, ISPE, Chicago, IL (Aug 2011)
22. \* “Group Sequential Methods for Observational data Incorporating Confounding through Estimating Equations with application in Post-Marketing Vaccine/Drug Surveillance”, ISCB, Ottawa, ON, Canada (Aug 2011)
23. “Group Sequential Methods: Phase II”, VSD Annual Meeting, Denver, CO (Mar 2012)
24. \* “Summary of Mini-Sentinel PRISM task order for Estimating Risk Differences in the Distributed Data Setting for Postmarket Safety Outcomes”, FDA Mini-Sentinel Webinar (May 2012)
25. \* “Method for Estimating Risk Differences in the Distributed Data Setting for Postmarket Safety Outcomes”, FDA Mini-Sentinel Annual Meeting (Feb 2013)
26. \* “Methodological Challenges for Sequential Medical Product Safety Surveillance using Observational Healthcare Data”, ENAR, Baltimore, MD (Mar 2014)

27. \*"New Sequential Methods in a Distributed Data Setting applied to Mini-Sentinel Data", FDA Mini-Sentinel Webinar (Apr 2014)
28. \*"Adapting Sequential Methods for Active Medical Product Safety Surveillance in a Distributed Health Care Database Setting", Seattle Symposium on Health Care Data Analytics, Seattle, WA (Sep 2014)
29. \*"Methods for using EHR data to conduct Active Safety Surveillance Studies of New Medical Products", Duke Clinical Research Institute Seminar Series, Durham, NC (Oct 2014)
30. "Comparison of Different Sequential Methods Using the MMRV Example", VSD Annual Meeting, Atlanta, GA (Nov 2014)
31. \*"Safety Signaling Methods for Survival Outcomes to Control for Confounding", FDA Mini-Sentinel Webinar (Feb 2015)
32. "Risk Difference versus Odds Ratio for Surveillance: Application MMRV", VSD Annual Meeting (Nov 2015)
33. \*"Survival Methods for Postmarketing Medical Product Surveillance in a Distributed Network", ENAR, Austin, TX (Mar 2016)
34. \*"Group Sequential Monitoring for Drug and Vaccine Safety using Inverse Probability of Treatment Weighting", WNAR/IBC, Victoria, BC Canada (Jul 2016)
35. \*"Comparing Propensity Score Stratification and Adjustment for the Cox PH Regression in the Setting of Multiple Sites", FDA Sentinel Webinar (Aug 2017)
36. \*"Methods for using EHR data to Conduct Active Safety Surveillance Studies of New Medical Products", Emory University, Dept. of Biostatistics and Bioinformatics (Sep 2018)
37. "Potential Efficiency of Cluster Randomization with Crossover", WNAR, Flagstaff, AZ (Jun 2006)
38. \*"Statistical issues in designing unblinded randomized controlled studies for non-pharmaceutical therapy focusing on massage and yoga interventions for neck and back pain", JSM, Miami, FL (Aug 2011)
39. "Web-based Team Care to Improve Hypertension Control the e-BP\* study and BEYOND: Long-term Results", GHRI Seminar Series, Seattle, WA (Oct 2013)
40. \*"Improving Pragmatic Clinical Trials: Lessons Learned from the NIH Collaboratory Biostatistics Core", University of Penn 8th Annual Conference on Statistical Issues in Clinical Trials, Philadelphia, PA (Apr 2015)
41. "Improving Pragmatic Clinical Trials: Lessons Learned from the NIH Collaboratory Biostatistics Core", NIH Collaboratory Grand Rounds Webinar (Jun 2015)
42. "Pragmatic Clinical Trial Challenges: Lessons Learned from the NIH Collaboratory Biostatistics Core", GHRI Seminar Series (Oct 2015)
43. \*"Pragmatic Clinical Trial Challenges: Lessons Learned from the NIH Collaboratory Biostatistics Core", Seattle Symposium on Health Care Data Analytics, Seattle, WA (Oct 2016)
44. "Lessons Learned from the NIH Collaboratory Biostatistics Core up to 2016", NIH Collaboratory Grand Rounds Webinar (Dec 2016)
45. \*"Pragmatic Clinical Trial Challenges: Lessons Learned from the NIH Collaboratory Biostatistics and Design Core", Georgia CTSA BERD Research Forum, Advances & Challenges in Pragmatic Trials, Morehouse School of Medicine, Atlanta, GA (Sep 2018)
46. \*"Assessing Bias when Evaluating Data Completeness when using EHR data", Pragmatic Clinical Trial Think Tank, Washington DC (Jan 2019)
47. "Design and Analysis of Embedded Pragmatic Clinical Trials within Health Care Systems: Lessons Learned from the NIH Collaboratory", Dept. of Biostatistics, University of Washington, Seattle, WA (May 2019)
48. \*"Protecting Patient Privacy: Distributed Analyses for Multi-site Observational Studies", JSM, Baltimore, MD (Jul 2017)

49. \*"The Role of Health Care Data analytics in Health Policy Decision-making", JSM Speaker Lunch Session, Seattle, WA (Aug 2015)
50. \*"Design and Analysis to Address Potential Calendar Time Bias in Subgroup Analyses of RCTs: BIA and COVID", WNAR, Fort Collins, CO (Jun 2024)

Like presentations grouped; \* indicates invited presentation

### 11. PROFESSIONALLY-RELATED COMMUNITY SERVICE:

- Science Club for Girls, Cambridge MA, Spring 2004, Mentor-Scientist for K-1st Graders.
- Community for Youth, Seattle WA, Sept 2017-June 2020, Mentor for underserved high school teens.

### 12. TEACHING HISTORY:

Formal Courses Dept. of Biostatistics, University of Washington

- BIO/STAT 533: Linear Regression, Spring 2016
- BIO 582: Student Seminar, Winter 2019

Guest Lecturer Courses Dept. of Health Services, University of Washington

- Advanced Health Services Research Methods I, Special Topic: Spatial Statistics, Nov. 2007
- Advanced Health Services Research Methods I, Special Topic: Causal Inference, Feb. 2016

Teaching Assistant Courses Dept. of Biostatistics, Harvard University

- Spatial Statistics (R and ArcGIS), Fall 2004
- Applied Longitudinal Analysis (SAS), Fall 2003 and 2004
- Regression and ANOVA (STATA), Spring 2003 and 2004
- Basics in Statistical Inference, Fall 2001 and 2002

### 13. ADVISING and FORMAL MENTORING:

- a) PhD Dissertation, chair
  - Xu Shi, Dept. of Biostatistics, Univ. of Washington, Grad.: Jun 2017.
- b) Masters Theses, chair
  - Kelly Stratton, Dept. of Biostatistics, Univ. of Washington, Grad.: Aug 2012.
- c) Mentored Scientists and Postdocs
  - H. Molly Grow MD, Fellow, Seattle Childrens Hospital, Fall 2006 to Fall 2008
  - Anju Aggarwal PhD, Research Associate, Dept. of Nutrition, Univ of Washington, Fall 2007 to Summer 2010
  - Rebecca Seguin PhD, Postdoc, Women's Health post-doctoral fellow, Fall 2009 to Spring 2011
  - Rebecca Seguin PhD, K01 Award Recipient, Advisory board member, Fall 2012 to Summer 2014
  - Dori Rosenberg PhD, K01 Award Recipient, Mentorship committee member, Fall 2014 to Spring 2016
- d) MS and PhD Committees in non-chair roles:
 

PhD Committee:

  - Colleen Sitlani, Dept. of Biostatistics, Univ. of Washington, Grad.: June 2011.

Master Committee:

  - Lei Wang, Dept. of Biostatistics, Univ. of Washington, Grad.: Dec 2017.
- e) Other Advising/Mentoring
 

Research Assistants

  - Paramita Saha, Fall 2005 to Spring 2006
  - Colleen Sitlani, Fall 2006 to Fall 2007
  - Siobhan Everson-Stewart, Fall 2006 to Spring 2008
  - Shanshan Zhao, Fall 2007 to Fall 2009
  - Kelly Stratton, Fall 2010 to Summer 2012
  - Xu Shi, Spring 2015 to Summer 2017

Biostatistician Supervisor

  - Melissa Anderson MS, Jan. 2009 to Mar 2022
  - Robert Wellman MS, Oct 2009 to Present
  - Onchee Yu MS, Oct 2014 to Present

- Jing Zhou PhD, Oct 2017 to Apr 2020
- Maricela Cruz PhD, Jan 2020 to Mar 2022
- Rod Walker MS, Jan 2020 to Mar 2022
- Yu-Ru Su PhD, Jan 2020 to Mar 2022
- Yates Coley PhD, Jan 2020 to Present
- Weiwei Zhu MS, Jan 2020 to Present
- Abisola Idu MS, Jan 2020 to Present
- Brian Williamson PhD, Sep 2021 to Present
- Chloe Krakauer PhD, Mar 2023 to Present

f) Academic Advising

**14. OTHER PERTINENT INFORMATION AS NEEDED:**

Not Applicable