

**Adam J. Branscum, Ph.D.**

Professor of Biostatistics  
College of Health  
Oregon State University  
Corvallis, OR 97331  
adam@oregonstate.edu

**EDUCATION**

---

---

Ph.D.	Statistics	2005	University of California, Davis Department of Statistics
M.S.	Epidemiology	2005	University of California, Davis Graduate Group in Epidemiology
M.S.	Statistics	2000	California State University, East Bay Department of Statistics
B.S.	Mathematics	1999	California State University, East Bay Department of Mathematics and Computer Science

**EXPERIENCE**

---

---

**Professor**, Biostatistics, Oregon State University (2017 - present)

**Associate Professor**, Biostatistics, Oregon State University (2010 - 2017)

**Biostatistics Program Director**, Oregon State University (2010 - 2015; 2017 - 2021)

**Adjunct Professor**, Department of Statistics, Oregon State University (2010 - present)

**Assistant Professor**, University of Kentucky (2005 - 2010)

- Department of Biostatistics (College of Public Health)
- Department of Statistics (College of Arts and Sciences)
- Department of Epidemiology (College of Public Health, 2006 - 2010)

## RESEARCH INTERESTS

---

---

- Bayesian nonparametric and semiparametric modeling and data analysis
- Biostatistics and epidemiologic modeling and applications
- Biomarkers and diagnostic tests for screening, diagnosis, and risk prediction

## AWARDS

---

---

- Faculty Excellence Award, College of Public Health and Human Sciences (2021)
- Promising Scholar Award, Oregon State University (2014)
- Certificate of Achievement for co-authoring one of the 4 top-cited articles published in *Lifetime Data Analysis* during the 5 year period from 2011 to 2015

## PEER-REVIEWED PUBLICATIONS

---

---

1. **Branscum AJ**, Gardner IA, Johnson WO (2004). Bayesian modeling of animal and herd-level prevalences. *Preventive Veterinary Medicine* 66, 101-112.
2. Hanson TE, **Branscum AJ**, Johnson WO (2005). Bayesian nonparametric modeling and data analysis: An introduction. In *Bayesian Thinking: Modeling and Computation* (Handbook of Statistics, Volume 25, Chapter 9), 245-278. Edited by D.K. Dey and C.R. Rao. Amsterdam: Elsevier.
3. **Branscum AJ**, Gardner IA, Johnson WO (2005). Estimation of diagnostic test sensitivity and specificity through Bayesian modeling. *Preventive Veterinary Medicine* 68, 145-163. Available online.
4. Thurmond MC, **Branscum AJ**, Johnson WO, Bedrick EJ, Hanson TE (2005). Predicting the probability of abortion in dairy cows: a hierarchical Bayesian logistic-survival model using sequential pregnancy data. *Preventive Veterinary Medicine* 68, 223-239.
5. **Branscum AJ**, Gardner IA, Wagner BW, McInturff P, Salman MD (2005). Effect of diagnostic testing error on intracluster correlation coefficient estimation. *Preventive Veterinary Medicine* 69, 63-75. Available online.
6. **Branscum AJ**, Johnson WO, Gardner IA (2006). Sample size calculations for disease freedom and prevalence estimation surveys. *Statistics in Medicine* 25, 2658-2674.

7. Reksen O, Sølverød L, **Branscum AJ**, Østeras O (2006). Relationships between milk culture results and treatment for clinical mastitis or culling in Norwegian dairy cattle. *Journal of Dairy Science* 89, 2928-2937. Available online.
8. **Branscum AJ**, Johnson WO, Gardner IA (2007). Sample size calculations for studies designed to evaluate diagnostic test accuracy. *Journal of Agricultural, Biological, and Environmental Statistics* 12, 112-127.
9. **Branscum AJ**, Johnson WO, Thurmond MC (2007). Bayesian beta regression: Applications to household expenditure data and genetic distance between foot-and-mouth disease viruses. *Australian & New Zealand Journal of Statistics* 49(3), 287-301.
10. Cheng D, Stamey J, **Branscum AJ** (2007). A general approach to sample size determination for prevalence surveys that use dual test protocols. *Biometrical Journal* 49(5), 694-706.
11. Kelley GO, Garabed RB, **Branscum A**, Perez AM, Thurmond MC (2007). Prediction model for sequence variation of the glycoprotein gene of infectious hematopoietic necrosis virus in California, U.S.A. *Diseases of Aquatic Organisms* 78, 97-104. Available online.
12. **Branscum AJ**, Hanson TE (2008). Bayesian nonparametric meta-analysis using Polya tree mixture models. *Biometrics* 64, 825-833.
13. **Branscum AJ**, Johnson WO, Hanson TE, Gardner IA (2008). Bayesian semiparametric ROC curve estimation and disease diagnosis. *Statistics in Medicine* 27, 2474-2496.
14. **Branscum AJ**, Hanson TE, Gardner IA (2008). Bayesian non-parametric models for regional prevalence estimation. *Journal of Applied Statistics* 35(5), 567-582.
15. Hanson TE, **Branscum AJ**, Gardner IA (2008). Multivariate mixtures of Polya trees for modelling ROC data. *Statistical Modelling* 8, 81-96 (contribution to the special issue on Bayesian nonparametric modeling). Available online.
16. Hanson TE, Kottas A, **Branscum AJ** (2008). Modelling stochastic order in the analysis of ROC data: Bayesian non-parametric approaches. *Applied Statistics* 57, 207-225. Available online.
17. **Branscum AJ**, Perez AM, Johnson WO, Thurmond MC (2008). Bayesian spatiotemporal analysis of foot-and-mouth disease data from the Republic of Turkey. *Epidemiology and Infection* 136(6), 833-842. Available online.
18. Lu Z, **Branscum AJ**, Shuck KM, Zhang J, Dubovi EJ, Timoney PJ, Balasuriya UBR (2008). Comparison of two real-time reverse transcription polymerase chain reaction assays for the detection of *Equine arteritis virus* nucleic acid in equine semen and tissue culture fluid. *Journal of Veterinary Diagnostic Investigation* 20, 147-155. Available online.

19. Go Y-Y, Wong SJ, **Branscum AJ**, Demarest VL, Shuck KM, Vickers ML, Zhang J, McCollum WH, Timoney PJ, Balasuriya UBR (2008). Development of a fluorescent microsphere immunoassay for detection of antibodies specific to equine arteritis virus and comparison with the virus neutralization test. *Clinical and Vaccine Immunology* 15, 76-87. Available online.
20. Messam L, **Branscum AJ**, Collins MT, Gardner IA (2008). Frequentist and Bayesian approaches to prevalence estimation using examples from Johne's Disease. *Animal Health Research Reviews* 9, 1-23.
21. Cheng D, Stamey JD, **Branscum AJ** (2009). Bayesian approach to average power calculations for binary regression models with misclassified outcomes. *Statistics in Medicine* 28, 848-863.
22. Adragao T, Herberth J, Monier-Faugere M-C, **Branscum AJ**, Ferreira A, Frazao JM, Curto JD, Malluche HH (2009). Low bone volume – A risk factor for coronary calcifications in hemodialysis patients. *Clinical Journal of the American Society of Nephrology* 4, 450-455. Available online.
23. Herberth J, Monier-Faugere M-C, Mawad HW, **Branscum AJ**, Herberth Z, Wang G, Cantor T, Malluche HH (2009). The five most commonly used intact parathyroid hormone assays are useful for screening but not for diagnosing bone turnover abnormalities in CKD-5 patients. *Clinical Nephrology* 72, 5-14.
24. Thomas MV, **Branscum A**, Miller CS, Ebersole J, Al-Sabbagh M, Schuster JL (2009). Within-subject variability in repeated measures of salivary analytes in healthy adults. *Journal of Periodontology* 80, 1146-1153.
25. Johnson WO, Gardner IA, Metoyer CN, **Branscum AJ** (2009). On the interpretation of test sensitivity in the two-test two-population problem: Assumptions matter. *Preventive Veterinary Medicine*, 91, 116-121.
26. Swanson M, **Branscum A**, Nakayima PJ (2009). Promoting consumption of fruit in elementary school cafeterias. The effects of slicing apples and oranges. *Appetite*, 53, 264-267.
27. Lu Z, Chambers TM, Boliar S, **Branscum AJ**, Sturgill TL, Timoney PJ, Reedy SE, Tudor LR, Dubovi EJ, Vickers ML, Sells S, Balasuriya UBR (2009). Development and evaluation of one-step TaqMan real-time reverse transcription-PCR assays targeting nucleoprotein, matrix, and hemagglutinin genes of equine influenza virus. *Journal of Clinical Microbiology*, 47, 3907-3913.
28. Cheng D, **Branscum AJ**, Stamey JD (2010). A Bayesian approach to sample size determination for studies designed to evaluate continuous medical tests. *Computational Statistics and Data Analysis*, 54, 298-307.
29. Smith KL, Allen GP, **Branscum AJ**, Cook RF, Vickers ML, Timoney PJ, Balasuriya UBR (2010). The increased prevalence of neuropathogenic strains of EHV-1 in equine abortions. *Veterinary Microbiology*, 141, 5-11.

30. Adragao T, Herberth J, Monier-Faugere M-C, **Branscum AJ**, Ferreira A, Frazao JM, Malluche HH (2010). Femoral bone mineral density reflects histologically determined cortical bone volume in hemodialysis patients. *Osteoporosis International*, 21, 619-625. Available online.
31. Herberth J, **Branscum AJ**, Mawad H, Cantor T, Monier-Faugere M-C, Malluche HH (2010). Intact PTH combined with the PTH ratio for diagnosis of bone turnover in dialysis patients: A diagnostic test study. *American Journal of Kidney Disease*, 55, 897-906. Available online.
32. Meade BJ, Timoney PJ, Donahue JM, **Branscum AJ**, Ford R, Rowe R (2010). Initial occurrence of *Taylorella asinigenitalis* and its detection in nurse mares, a stallion and donkeys in Kentucky. *Preventive Veterinary Medicine*, 95, 292-296.
33. Cheng D, **Branscum AJ**, Stamey JD (2010). Accounting for response misclassification and covariate measurement error improves power and reduces bias in epidemiologic studies. *Annals of Epidemiology*, 20, 562-567.
34. Scott MC, Bannantine JP, Kaneko Y, **Branscum AJ**, Whitlock RH, Mori Y, Speer CA, Eda S (2010). Absorbed EVELISA: A diagnostic test with improved specificity for Johnes disease in cattle. *Foodborne Pathogens and Disease*, 7, 1291-1296.
35. Farino MM, **Branscum A**, Robinson FG, Jasper SJ, Al-Sabbagh M, Puleo DA, Thomas MV (2010). Programmatic effectiveness of a University-based implant training program: Long-term, patient-centered outcomes. *Journal of Long-Term Effects of Medical Implants*, 20(4), 343-351.
36. Hanson TE, **Branscum AJ**, Johnson WO (2011). Predictive comparison of joint longitudinal-survival modeling: a case study illustrating competing approaches (with discussion). *Lifetime Data Analysis*, 17, 3-18. Winner of Certificate of Achievement for being one of the 4 top-cited LIDA articles published between 2011 and 2015. Available online.
37. Asci G, Ok E, Savas R, Ozkahya M, Duman S, Toz H, Kayikcioglu M, **Branscum AJ**, Monier-Faugere M-C, Herberth J, Malluche HH (2011). The link between bone and coronary calcifications in CKD-5 patients on hemodialysis. *Nephrology Dialysis Transplantation*, 26(3), 1010-1015. Available online.
38. Cejka D, Herberth J, **Branscum AJ**, Fardo DW, Monier-Faugere M-C, Diarra D, Haas M, Malluche HH (2011). Sclerostin and Dickkopf-1 in Renal Osteodystrophy. *Clinical Journal of the American Society of Nephrology*, 6(4), 877-882. Available online.
39. Porto F, de Leeuw R, Evans DR, Carlson CR, Yepes JF, **Branscum A**, Okeson JP (2011). Differences in psychosocial functioning and sleep quality between idiopathic continuous orofacial neuropathic pain patients and chronic masticatory muscle pain patients. *Journal of Orofacial Pain*, 25(2), 117-124.

40. Cuadros DF, **Branscum AJ**, Garcia-Ramos G (2011). No evidence of association between HIV-1 and malaria in populations with low HIV-1 prevalence. *PLOS ONE*, 6(8): e23458. Available online.
41. Cuadros DF, **Branscum AJ**, Crowley PH (2011). HIV-malaria co-infection: effects of malaria on the prevalence of HIV in East sub-Saharan Africa (with commentary and rejoinder in 2012). *International Journal of Epidemiology*, 40(4), 931-939. Available online.
42. Park CH, Thomas MV, **Branscum AJ**, Harrison E, Al-Sabbagh M (2011). Factors influencing the periodontal referral process. *Journal of Periodontology*, 82(9), 1288-1294.
43. Seamon LG, Tarrant RL, Fleming ST, Vanderpool RC, Pachtman S, Podzielinski I, **Branscum AJ**, Feddock JM, Randall ME, DeSimone CP (2011). Cervical cancer survival for patients referred to a tertiary care center in Kentucky. *Gynecologic Oncology*, 123, 565-570.
44. Cheng D, **Branscum AJ**, Johnson WO (2012). Sample size calculations for ROC studies: parametric robustness and Bayesian nonparametrics. *Statistics in Medicine*, 31, 131-142.
45. Wilken JA, Badri T, Cross S, Raji R, Santin AD, Schwartz P, **Branscum AJ**, Baron AT, Sakhitab AI, Maihle NJ (2012). EGFR/HER-targeted therapeutics in ovarian cancer. *Future Medicinal Chemistry*, 4, 447-469. Available online.
46. Marrone JA, Maddalozzo GF, **Branscum AJ**, Hardin K, Cialdella-Kam L, Philbrick KA, Breggia AC, Rosen CJ, Turner RT, Iwaniec UT (2012). Moderate alcohol lowers biochemical markers of bone turnover in postmenopausal women. *Menopause*, 19(9), 974-979. Available online.
47. Schörgendorfer A, **Branscum AJ**, Hanson TE (2013). A Bayesian goodness of fit test and semiparametric generalization of logistic regression with measurement data. *Biometrics*, 69, 508-519.
48. **Branscum AJ**, Johnson WJ, Baron AT (2013). Robust medical test evaluation using flexible Bayesian semiparametric regression models. *Epidemiology Research International*, Article ID 131232. Available online.
49. Ma W, Ma J, Xu J, Qiao C, **Branscum A**, Cardenas A, Baron AT, Schwartz P, Maihle NJ, Huang Y (2013). Lin28 regulates BMP4 and functions with Oct4 to affect ovarian tumor microenvironment (with editorial). *Cell Cycle*, 12(1), 1-10.
50. Cosentino-Boehm A, Lafky J, Greenwood T, Kimbler K, Buenafe M, Wang Y, **Branscum A**, Yang P, Maihle N, Baron A (2013). Soluble HER2 (sHER2) as a potential risk assessment, screening, and diagnostic biomarker of lung adenocarcinoma. *Diagnostics*, 3, 13-32; doi:10.3390/diagnostics3010013.

51. Podzielinski I, Saunders BA, Kimbler KD, **Branscum AJ**, Fung ET, DePriest PD, van Nagell JR, Ueland FR, Baron AT (2013). Apolipoprotein concentrations are elevated in malignant ovarian cyst fluids suggesting that lipoprotein metabolism is dysregulated in epithelial ovarian cancer. *Cancer Investigation*, 31(4), 258-272.
52. Turner RT, Iwaniec UT, Andrade JE, **Branscum AJ**, Neese SL, Olson DA, Wagner L, Wang VC, Schantz SL, Helferich WG (2013). Genistein administered as a once-daily oral supplement had no beneficial effect on the tibia in rat models for postmenopausal bone loss. *Menopause*, 20(6), 677-686. Available online.
53. Schörgendorfer A, **Branscum AJ** (2013). Regression analysis using dependent Polya trees. *Statistics in Medicine*, 32(27), 4679–4695 (Featured Article).
54. Skaggs HS, Saunders BA, Miller RW, Goodrich ST, King MS, Kimbler KD, **Branscum AJ**, Fung ET, DePriest PD, van Nagell JR, Ueland FR, Baron AT (2013). Ovarian cyst fluids are a cache of tumor biomarkers that include Calgranulin A and Calgranulin B isoforms. *Cancer Investigation*, 31(7), 433-453.
55. Turner RT, Iwaniec UT, Wong CP, Laurence LB, Lindenmaier LB, Wagner LA, **Branscum AJ**, Menn SA, Taylor J, Zhange Y, Wue H, Sibong JD (2013). Acute exposure to high dose  $\gamma$ -radiation results in transient activation of bone lining cells. *Bone*, 57(1), 164-173. Available online.
56. Johnson TL, Gaddini G, **Branscum AJ**, Olson DA, Caroline-Westerlind K, Turner RT, Iwaniec UT (2014). Effects of chronic heavy alcohol consumption and endurance exercise on cancellous and cortical bone microarchitecture in adult male rats. *Alcoholism: Clinical and Experimental Research*, 38(5), 1365-1372. Available online.
57. Lucas DL, Kincl LD, Bovbjerg VE, Lincoln JM, **Branscum AJ** (2014). Work-related traumatic injuries onboard freezer-trawlers and freezer-longliners operating in Alaskan waters during 2001-2012. *American Journal of Industrial Medicine*, 57(7), 826-836.
58. Lucas DL, Kincl LD, Bovbjerg VE, **Branscum AJ**, Lincoln JM (2014). Primary prevention of fishing vessel disasters: Evaluation of a United States Coast Guard policy intervention. *Marine Policy*, 50, 67-73.
59. Hanson TE, **Branscum AJ**, Johnson WJ (2014). Informative  $g$ -priors for logistic regression. *Bayesian Analysis*, 9, 597-612. Available online.
60. Cuadros DF, **Branscum AJ**, Miller D, Abu-Raddad LJ (2014). Spatial epidemiology of hepatitis C virus infection in Egypt: Analyses and implications. *Hepatology*, 60(4), 1150-1159. Available online.
61. Turner RT, Philbrick KA, Wong CP, Olson DA, **Branscum AJ**, Iwaniec UT (2014). Morbid obesity attenuates the skeletal abnormalities associated with leptin deficiency in mice. *Journal of Endocrinology*, 223(1), M1-M15. Available online.
62. Jackson JA, **Branscum A**, John D, Smit E, Gunter K (2015). Healthy eating, physical activity, and learning behaviors. *Health Behavior and Policy Review*, 2, 24-34.

63. **Branscum AJ**, Cheng D, Lee JJ (2015). Testing hypotheses about medical test accuracy: considerations for design and inference. *Journal of Applied Statistics*, 42, 1106-1119.
64. Romero SA, Ely MR, Sieck DC, Luttrell MJ, Buck TM, Kono JM, **Branscum AJ**, Halliwill JR (2015). Effect of antioxidants on histamine receptor activation and sustained postexercise vasodilatation in humans. *Experimental Physiology*, 100, 435-449. Available online.
65. Liu W, Zhang B, Zhang Z, Tao J, Chen B, **Branscum AJ** (2015). Model selection in finite mixture of regression models: A Bayesian approach with innovative weighted g priors and reversible jump Markov chain Monte Carlo implementation. *Journal of Statistical Computation and Simulation*, 85, 2456-2478.
66. Cleveland SD, **Branscum AJ**, Bovbjerg VE, Thorburn S (2015). Mental health symptoms among student service members/veterans and civilian college students. *Journal of American College Health*, 63, 459-472.
67. Cuadros D, **Branscum A**, DeWolfe Miller F, Awad S, Abu-Raddad L (2015). Are geographical “cold spots” of male circumcision driving differential HIV dynamics in Tanzania? *Frontiers in Public Health*, 3:218. Available online.
68. Turner RT, Dube M, **Branscum AJ**, Wong CP, Olson DA, Zhong X, Kweh MF, Larkin IV, Wronski TJ, Rosen CJ, Kalra SP, Iwaniec UT (2015). Hypothalamic leptin gene therapy reduces body weight without accelerating age-related bone loss. *Journal of Endocrinology*, 227, 129-141. Available online.
69. **Branscum AJ**, Johnson WJ, Hanson TE, Baron AT (2015). Flexible regression models for ROC and risk analysis, with or without a gold standard. *Statistics in Medicine*, 34, 3997-4015.
70. Philbrick KA, Turner RT, **Branscum AJ**, Wong CP, Iwaniec UT (2015). Paradoxical effects of partial leptin deficiency on bone in growing female mice. *The Anatomical Record*, 298, 2018-2029.
71. Keune JA, **Branscum AJ**, Iwaniec UT, Turner RT (2015). Effects of spaceflight on bone microarchitecture in the axial and appendicular skeleton in growing ovariectomized rats. *Scientific Reports*, 5, Article number: 18671. Available online.
72. Loprinzi PD, **Branscum A**, Hanks J, Smit E (2016). Healthy lifestyle characteristics and their joint association with cardiovascular disease biomarkers among U.S. adults. *Mayo Clinic Proceedings*, 91, 432-442.
73. Keune JA, Philbrick KA, **Branscum AJ**, Iwaniec UT, Turner RT (2016). Spaceflight-induced vertebral bone loss in ovariectomized rats is associated with increased bone marrow adiposity and no change in bone formation. *npj Microgravity*, 2, Article number: 16016. Available online.



74. Lindenmaier LB, Philbrick KA, **Branscum AJ**, Kalra SP, Turner RT, Iwaniec UT (2016). Hypothalamic leptin gene therapy reduces bone marrow adiposity in ob/ob mice fed regular and high fat diets. *Frontiers in Endocrinology*, 7:110. Available online.
75. Iwaniec UT, Philbrick KA, Wong CP, Gordon J, Kahler-Quesada K, Olson DA, **Branscum AJ**, Sargent JL, DeMambro VE, Rosen CJ, Turner RT (2016). Room temperature housing results in premature cancellous bone loss in growing female mice: implications for the mouse as a preclinical model for age-related bone loss. *Osteoporosis International*, 27, 3091-3101.
76. Carozza SE, Bae H, Meath T, **Branscum A**, Bovbjerg ML, Langlois P (2017). Evaluation of maternal health and labor and delivery conditions as risk factors for childhood leukemias in children with Down Syndrome. *Cancer Epidemiology*, 46, 36–41.
77. Philbrick KA, Wong CP, **Branscum AJ**, Turner RT, Iwaniec UT (2017). Leptin stimulates bone formation in *ob/ob* mice at doses having minimal impact on energy metabolism. *Journal of Endocrinology*, 232, 461–474. Available online.
78. Keune JA, Wong CP, **Branscum AJ**, Iwaniec UT, Turner RT (2017). Bone marrow adipose tissue deficiency increases disuse-induced bone loss in male mice. *Scientific Reports*, 7, Article number: 46325. Available online.
79. Kostoulas P, Nielsen SS, **Branscum AJ**, Johnson WO, Dendukuri N, Dhand NK, Toft N, Gardner IA (2017). STARD-BLCM: Standards for the reporting of diagnostic accuracy studies that use Bayesian latent class models. *Preventive Veterinary Medicine*, 138, 37–47. Available online.  
  
Kostoulas P, Nielsen SS, **Branscum AJ**, Johnson WO, Dendukuri N, Dhand NK, Toft N, Gardner IA (2017). Reporting guidelines for diagnostic accuracy studies that use Bayesian latent class models (STARD-BLCM). *Statistics in Medicine*, 36, 3603–3604.
80. Turner RT, Philbrick KA, Kuah A, **Branscum AJ**, Iwaniec UT (2017). Role of estrogen receptor signaling in skeletal response to leptin in female ob/ob mice. *Journal of Endocrinology*, 233, 357-367. Available online.
81. Cuadros DF, Hernandez AK, Torres MF, Torres DM, **Branscum AJ**, Rincon DF (2017). Vector transmission alone fails to explain the potato yellow vein virus epidemic among potato crops in Colombia. *Frontiers in Plant Science*, 8, Article 1654. Available online.
82. Jackson JA, Smit E, **Branscum A**, Gunter K, Harvey M, Manore MM, John D (2017). The family home environment, food insecurity, and body mass index in rural children. *Health Education & Behavior*, 44, 648-657.
83. Wang W, Gordon JL, Philbrick KA, Yang X, **Branscum AJ**, Lohr CV, Haschek WM, Turner RT, Iwaniec UT, Helferich WT (2017). Low calcium diet increases 4T1 mammary tumor carcinoma cell burden and bone pathology in mice. *PLOS ONE*, 12(7): e0180886. Available online.

84. Cuadros DF, Li J, **Branscum AJ**, Akullian A, Jia P, Mziray EN, Tanser F (2017). Mapping the spatial variability of HIV infection in Sub-Saharan Africa: Effective information for localized HIV prevention and control. *Scientific Reports*, 7, Article number: 9093. Available online.
85. Inácio de Carvalho V, de Carvalho M, **Branscum AJ** (2017). Nonparametric Bayesian covariate-adjusted estimation of the Youden index. *Biometrics*, 73, 1279-1288.
86. Philbrick KA, Martin SA, Colagiovanni AR, **Branscum AJ**, Turner RT, Iwaniec UT (2018). Effects of hypothalamic leptin gene therapy on osteopetrosis in leptin-deficient mice. *Journal of Endocrinology*, 236, 57-68. Available online.
87. Alvarez J, Whitten T, **Branscum AJ**, Garcia-Seco T, Bender JB, Scheftel J, Perez A (2018). Understanding Q fever risk to humans in Minnesota through the analysis of spatiotemporal trends. *Vector-Borne and Zoonotic Diseases*, 18, 89-95.
88. Inácio de Carvalho V, **Branscum AJ** (2018). Bayesian nonparametric inference for the three-class Youden index and its associated optimal cut-points. *Statistical Methods in Medical Research*, 27, 689-700.
89. Cuadros DF, **Branscum AJ**, Mukandavire Z (2018). Temporal stability of HIV prevalence in high burden areas regardless of declines in national HIV prevalence in Malawi and Zimbabwe. *AIDS*, 32, 1381-1383. Available online.
90. Meng Y, Manore MM, Schuna JM, Patton-Lopez MM, **Branscum A**, Wong SS (2018). Promoting healthy diet, physical activity, and life-skills in high school athletes: Results from the WAVE Ripples for Change Childhood Obesity Prevention Two-Year intervention. *Nutrients*, 10, 947. Available online.
91. Philbrick KA, Wong CP, Kahler-Quesada AM, Olson DA, **Branscum AJ**, Turner RT, Iwaniec UT (2018). Polyethylene particles inserted over calvarium induce cancellous bone loss in femur in female mice. *Bone Reports*, 9, 84-92. Available online.
92. Philbrick KA, **Branscum AJ**, Wong CP, Turner RT, Iwaniec UT (2018). Leptin increases particle-induced osteolysis in female ob/ob mice. *Scientific Reports*, 8, Article number: 14790. Available online.
93. De la Cruz ML, **Branscum AJ**, Ncar J, Pages E, Pozo P, Prez A, Grau A, Saez JL, de Juan L, Diaz R, Mnguez O, lvarez J (2018). Evaluation of the performance of the IDvet IFN-gamma test for diagnosis of bovine tuberculosis in Spain. *Frontiers in Veterinary Science*, 5, Article 229. Available online.
94. Patton-Lopez M, Manore MM, **Branscum A**, Meng Y, Wong SS (2018). Changes in sport nutrition knowledge, attitudes/beliefs and behaviors following a two-year sport nutrition education and life-skills intervention among high school soccer players. *Nutrients*, 10, 1636. Available online.
95. Inácio de Carvalho V, de Carvalho M, **Branscum A** (2018). Bayesian bootstrap inference for the receiver operating characteristic surface. *Stat*, 7(1), e211.

96. Cuadros DF, Li J, Mukandavire Z, Musuka GN, **Branscum AJ**, Sartorius B, Mugurungi O, Tanser F (2019). Towards UNAIDS Fast-Track goals: Targeting priority geographic areas for HIV prevention and care in Zimbabwe. *AIDS*, 33, 305–314. Available online.
97. Turner RT, Deyhle RT, **Branscum AJ**, Iwaniec UT (2019). Effects of a four-day spaceflight and recombinant human growth hormone on cancellous bone microarchitecture in femoral head of rapidly growing male rats. *Science Matters Select*. Available online.
98. Jackson JA, **Branscum A**, Tang A, Smit E (2019). Food security and physical functioning limitations among older U.S. adults. *Preventive Medicine Reports*, 14, Article 100829. Available online.
99. Welch B, **Branscum A**, Ahmed SM, Hystad P, Smit E, Afroz S, Megowan M, Golam M, Sharif O, Rahman M, Quamruzzaman Q, Christiani DC, Kile ML (2019). Arsenic exposure and serum antibody concentrations to diphtheria and tetanus toxoid in children at age 5: A prospective birth cohort in Bangladesh. *Environment International*, 127, 810-818. Available online.
100. Deyhle RT, Wong CP, Martin SA, McDougall MQ, Olson DA, **Branscum AJ**, Menn SA, Iwaniec UT, Hamby DM, Turner RT (2019). Maintenance of near normal bone mass and architecture in lethally irradiated female mice following adoptive transfer with as few as 750 purified hematopoietic stem cells. *Radiation Research*, 191, 413-427.
101. Phibbs S, Thorburn S, **Branscum AJ** (2019). Is weight discrimination associated with physical activity among middle aged and older adults? *The Journal of Primary Prevention*, 40, 279-295. Available online.
102. Keune JA, **Branscum AJ**, Wong CP, Iwaniec UT, Turner RT (2019). Effect of leptin deficiency on the skeletal response to hindlimb unloading in adult male mice. *Scientific Reports*, 9, Article number: 9336. Available online.
103. Hernandez AM, Gutierrez JD, Xiao Y, **Branscum AJ**, Cuadros DF (2019). Spatial epidemiology of cutaneous leishmaniasis in Colombia: Socio-economic and demographic factors associated with a growing epidemic. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 113, 560–568.
104. Wagner L, Howe K, Philbrick KA, Maddalozzo GF, Kuah AF, Wong CP, Olson D, **Branscum AJ**, Iwaniec UT, Turner RT (2019). Effects of alcohol and estrogen receptor blockade using ICI 182,780 on bone in ovariectomized rats. *Alcoholism: Clinical and Experimental Research*, 43, 2301-2311.
105. Kim H, **Branscum A**, DeWolfe Miller F, Cuadros D (2019). Geospatial assessment of the voluntary medical male circumcision programme in Tanzania, 2011-2016. *BMJ Global Health*, 4, e001922. Available online.

106. Martin SA, Philbrick KA, Wong CP, Olson DA, **Branscum AJ**, Jump DB, Marik CK, DenHerder JM, Sargent JL, Turner RT, Iwaniec UT (2019). Thermoneutral housing attenuates premature cancellous bone loss in male C57BL/6J mice. *Endocrine Connections*, 8, 1455-1467. Available online.
107. Kruse T, Veltri A, **Branscum A** (2019). Integrating safety, health and environmental management systems: A conceptual framework for achieving lean enterprise outcomes. *Journal of Safety Research*, 71, 259-271. Available online.
108. Kahler-Quesada AM, Grant KA, Walter NAR, Newmann NN, Allen MR, Burr DB, **Branscum AJ**, Maddalozzo GF, Turner RT, Iwaniec UT (2019). Voluntary chronic heavy alcohol consumption in male rhesus macaques suppresses cancellous bone formation and increases bone marrow adiposity. *Alcoholism: Clinical and Experimental Research*, 43, 2494-2503.
109. Hernandez A, **Branscum AJ**, Li J, MacKinnon NJ, Hincapie AL, Cuadros DF (2020). Epidemiological and geospatial profile of the prescription opioid crisis in Ohio, United States. *Scientific Reports*, 10, 4341. Available online.
110. Turner RT, Philbrick KA, Wong CP, Gamboa AR, **Branscum AJ**, Iwaniec UT (2020). Effects of Propranolol on bone, white adipose tissue, and bone marrow adipose tissue in mice housed at room temperature or thermoneutral temperature. *Frontiers in Endocrinology*, 11:117. Available online.
111. Yang L, **Branscum A**, Smit E, Dreher D, Howard K, Kincl L (2020). Work-related injuries and illnesses and their association with hour of work: Analysis of the Oregon construction industry in the US using workers compensation accepted disabling claims, 2007-2013. *Journal of Occupational Health*, 61, e12118. Available online.
112. Ahmed SM, **Branscum A**, Welch BM, Megowan M, Bethel JW, Odden MC, Joya SA, Sharif Ibn Hasan SA, Lin P, Mostofa G, Quamruzzaman Q, Rahman M, Christiani DC, Kile ML (2020). A prospective cohort study of in utero and early childhood arsenic exposure and infectious disease in 4- to 5-year-old Bangladeshi children. *Environmental Epidemiology*, 4, e086. Available online.
113. Welch BM, **Branscum A**, Geldhof GJ, Ahmed SM, Hystad P, Smit E, Afroz S, Megowan M, Golam M, Sharif O, Rahman M, Quamruzzaman Q, Christiani DC, Kile ML (2020). Evaluating the effects between metal mixtures and serum vaccine antibody concentrations in children: a prospective birth cohort study. *Environmental Health*, 19, Article 41. Available online.
114. Turner RT, **Branscum AJ**, Wong CP, Iwaniec UT, Morey-Holton M (2020). Studies in microgravity, simulated microgravity and gravity do not support a gravitostat. *Journal of Endocrinology*, 247, 191-200.
115. Correa-Agudelo E, Mersha TB, **Branscum AJ**, MacKinnon NJ, Cuadros DF (2021). Identification of vulnerable populations and areas at higher risk of COVID-19 related mortality during the early stage of the epidemic in the U.S. *International Journal*

- of Environmental Research and Public Health* (Special Issue on Advances in Spatial and Temporal Analysis of Respiratory Tract Infection Epidemics), 18, 4021. Available online.
116. Cuadros DF, **Branscum AJ**, Mukandavire Z, Miller FD, MacKinnon N (2021). Dynamics of the COVID-19 epidemic in urban and rural areas in the United States. *Annals of Epidemiology*, 59, 16-20. Available online.
  117. Hernandez A, Lan M, Mackinnon NJ, **Branscum AJ**, Cuadros DF (2021). “Know your epidemic, know your response”: Epidemiological assessment of the substance abuse disorder crisis in the United States. *PLOS ONE*, 16(5): e0251502. Available online.
  118. Turner RT, Wong CP, Fosse KM, **Branscum AJ**, Iwaniec UT (2021). Caloric restriction and hypothalamic leptin gene therapy have differential effects on energy partitioning in adult female rats. *International Journal of Molecular Sciences*, 22, 6789. Available online.
  119. Sattgast L, **Branscum A**, Newman N, Gonzales S, Grant K, Turner R, Iwaniec U (2021). Effects of graded increases in ethanol consumption on biochemical markers of bone turnover in young adult male cynomolgus macaques. *Alcohol*, 91, 53–59. Available online.
  120. Yang L, **Branscum A**, Bovbjerg V, Cude C, Weston C, Kincl L (2021). Assessing disabling and non-disabling injuries and illnesses using accepted workers compensation claims data to prioritize industries of high risk for Oregon young workers. *Journal of Safety Research*, 77, 241–254. Available online.
  121. Gamboa A, **Branscum AJ**, Olson DA, Sattgast LH, Iwaniec UT, Turner RT. (2021). Effects of spaceflight on cancellous and cortical bone in proximal femur in growing rats. *Bone Reports*, 14:100755. Senior Honors thesis. Available online.
  122. Martin SA, Riordan RT, Wang R, Yu Z, Aguiere-Burk AM, Wong CP, Olson DA, **Branscum AJ**, Turner RT, Iwaniec UT, Perez VI (2021). Rapamycin impairs bone accrual in young adult mice independent of Nrf2. *Experimental Gerontology*, 154, 111516. Available online.
  123. Sattgast L, **Branscum AJ**, Jimenez VA, Newman N, Grant KA, Turner RT, Iwaniec UT (2021). Between-subject and within-subject variability in measures of biochemical markers of bone turnover in Cynomolgus and Rhesus macaques. *Bone Reports*, 101126. Available online.
  124. Hudson-Hanley B, Smit E, **Branscum A**, Hystad P, Kile ML (2021). Trends in urinary metabolites of polycyclic aromatic hydrocarbons (PAHs) in the non-smoking U.S. population, NHANES 2001-2014. *Chemosphere*, 276, 130211. Available online.
  125. Kim H, Musuka GN, Mukandavire Z, **Branscum AJ**, Cuadros DF (2021). When distance matters: Mapping HIV health care underserved communities in sub-Saharan Africa. *PLOS Global Public Health*, 1(11): e0000013. Available online.

126. Street EM, Grutzmacher S, **Branscum AJ**, Smit E (2021). Self-perceived health and chronic conditions among users of supplements with and without botanical ingredients: findings from the 2009-2014 National Health and Nutrition Examination Survey. *Journal of Dietary Supplements*. Available online.
127. Joyce KM, Wong CP, Scriven IA, Olson DA, Doerge DR, **Branscum AJ**, Sattgast LH, Helferich WG, Turner RT, Iwaniec UT (2022). Isoliquiritigenin decreases bone resorption and osteoclast differentiation. *Molecular Nutrition and Food Research*, 2 100974. Available online.
128. Yang L, **Branscum A**, Kincl L (2022). Understanding occupational safety and health surveillance: Expert consensus on components, attributes and example measures for an evaluation framework. *BMC Public Health*, 22:498. Available online.
129. Andrew F, **Branscum A**, Hystad P, Smit E, Afroz S, Golam M, Sharif O, Rahman M, Quamruzzaman Q, Christiani DC, Kile ML (2022). A prospective study of arsenic and manganese exposures and maternal blood pressure during gestation. *Environmental Research*, 214, 113845. Available online.
130. Sattgast LH, **Branscum AJ**, Newman N, Gonzales SW, Benton LM, Baker EJ, Grant KA, Turner RT, Iwaniec UT (2022). Ethanol alters the relationship between IGF-1 and bone turnover in male rhesus macaques. *Journal of Endocrinology*, 255(3), 131–141. Available online.
131. Andrews FV, **Branscum A**, Hystad P, Smit E, Afroz S, Golam M, Sharif O, Rahman M, Quamruzzaman Q, Christiani DC, Kile ML (2022). Testing the limit: Evaluating drinking water arsenic regulatory levels based on adverse pregnancy outcomes in Bangladesh. *Toxics*, 10, 600. Available online.
132. Rothenberg SE, Furrer JM, Ingram LA, Ashford-Carroll T, Foster SA, Hystad P, Hynes DM, Navab-Daneshmand T, **Branscum AJ**, Kruear P (2022). Sanitary sewage overflows, boil water advisories, and emergency room and urgent care visits for gastrointestinal illness: A case-crossover study in South Carolina, USA, 2013-2017. *Journal of Exposure Science and Environmental Epidemiology*. Available online.
133. Turner RT, Nesser KL, Philbrick K, Wong CP, Olson DA, **Branscum AJ**, Iwaniec UT (2022). Leptin and environmental temperature as determinants of bone marrow adiposity in female mice. *Frontiers in Endocrinology*, 13:959743. Available online.
134. Beaver LM, Song Y, Philbrick KA, Wong CP, Olson DA, **Branscum AJ**, Turner RT, Ho E, Iwaniec UT (2023). Severe zinc deficiency impairs accrual of bone in rapidly growing rats that is partially corrected following short-term zinc repletion. *Biological Trace Element Research*, 201:3834–3849. Available online.
135. Boakye K, Bovbjerg M, Schuna J, **Branscum A**, et al (2023). Perceived built environment characteristics associated with walking and cycling across 355 communities in 21 countries. *Cities*, 132, 104102. Available online.

136. Boakye K, Bovbjerg M, Schuna J, **Branscum A**, et al. (2023). Urbanization and physical activity in the Global Prospective Urban and Rural Epidemiology Study. *Scientific Reports*, 13, 290. Available online.
137. Gomez-Buendia A, Pozo P, Picasso-Risso C, **Branscum A**, Perez A, Alvarez J (2023). Accuracy of tests for diagnosis of animal tuberculosis: Moving away from the golden calf (and towards Bayesian models). *Transboundary and Emerging Diseases*, Article ID 7615716. Available online.
138. Sattgast LH, Wong CP, **Branscum AJ**, Olson DA, Aguirre-Burk AM, Iwaniec UT, Turner RT (2023). Small changes in thermoregulation influence cancellous bone turnover balance in distal femur metaphysis in growing female mice. *Bone Reports*, 18, 101675. Available online.
139. Burbank C, **Branscum A**, Bovbjerg ML, Hooker K, Smit E (2023). Muscle power predicts frailty status over four years: a retrospective cohort study of the National Health and Aging Trends Study. *Journal of Frailty, Sarcopenia and Falls*, 8, 1–8. Available online.
140. Wong CP, **Branscum AJ**, Fichter AR, Sargent J, Iwaniec UT, Turner RT (2023). Cold stress during room temperature housing alters skeletal response to simulated microgravity (hindlimb unloading) in growing female C57BL6 mice. *Biochimie*, 210, 61-70. Available online.
141. Cuadros DF, **Branscum AJ**, Moreno CM, MacKinnon N (2023). A narrative minireview of the spatial epidemiology of substance use disorder in the United States: Who is at risk and where? *World Journal of Clinical Cases*, 11, 2374-2385. Available online.
142. Beaver LM, Prati M, Gilman KE, Luo T, Shay NF, **Branscum AJ**, Turner RT, Iwaniec UT (2023). Diet composition influences the effect of high fat diets on bone in growing male mice. *Bone*, 176, 116888. Available online.
143. Samper-Cativiela C, Prieto ME, Collado S, de Frutos C, **Branscum AJ**, Saez JL, Alvarez J (2023). Risk factors for Salmonella detection in commercial layer flocks in Spain. *Animals*, 13, 181. Special Issue on Salmonella and Salmonellosis: Implications in Public Health. Available online.
144. Turner RT, Philbrick KA, Wong CP, **Branscum AJ**, Iwaniec UT (2023). Higher weight in partially leptin-resistant db/+ mice has positive effects on bone. *Journal of Endocrinology*, 259, e230182. Available online.
145. Keune JA, Wong CP, **Branscum AJ**, Menn SA, Iwaniec UT, Turner RT (2024). Bone marrow adipose tissue is not required for reconstitution of the immune System following irradiation in male mice. *International Journal of Molecular Sciences*, 25, 1980. Available online.
146. Turner RT, **Branscum AJ**, Iwaniec UT (2024). Long-duration leptin transgene expression in dorsal vagal complex does not alter bone parameters in female Sprague Dawley rats. *Bone Reports*, 21, 101769. Available online.

147. Pierce C, **Branscum A**, Irvin V, Elander J, Bovbjerg M, Witkop M, Smit E (2024). Pain attitudes and pain outcomes among people with bleeding disorders: Results from Community Voices in Research. *Haemophilia*, 30, 720-727. Available online.
148. Kuah AH, Sattgast LH, Grant KA, Gonzales SW, Khadka R, Damrath JG, Allen MR, Burr DB, Wallace JM, Maddalozzo GF, Benton ML, Beaver LM, **Branscum AJ**, Turner RT, Iwaniec UT (2024). Six months of voluntary alcohol consumption in male cynomolgus macaques reduces intracortical bone porosity without altering mineralization or mechanical properties. *Bone*, 185, 117111. Available online.
149. Turner RT, Philbrick KA, Wong CP, Fichter AR, **Branscum AB**, Iwaniec UT (2025). Leptin potentiates bone loss at skeletal sites distant from focal inflammation in female ob/ob mice. *Journal of Endocrinology*, 264, e240324. Available online.

## BOOK

---

---

1. Christensen R, Johnson W, **Branscum A**, Hanson TE (2011). Bayesian Ideas and Data Analysis: An Introduction for Scientists and Statisticians. CRC Press.

## GRANTS

---

---

1. Title: Renal osteodystrophy: A fresh approach  
Agency: NIH # RO1 DK080770-01  
PI: Hartmut Malluche, MD (University of Kentucky)  
Dates: March 2009 to May 2010  
Role: Co-Investigator
2. National Center for Research Resources Grant # P20 RR0201045: "Center for Biologic Basis of Oral/Systemic Diseases." This is a COBRE project emphasizing research training in oral health. A Biostatistics Core is funded.  
PI: Jeffrey Ebersole (University of Kentucky)  
Dates: August 2005 to May 2010  
Role: Co-Investigator
3. Title: Optimization and evaluation of novel serum and milk enzyme-linked immunosorbent assays for Johne's disease  
PI: Adam Branscum and Shigetoshi Eda (University of Tennessee, Knoxville)



Agency: USDA  
Dates: August 2007 to August 2009  
Role: PI

4. Title: Mental healthiness aging initiative (MHAI), a community mental health aging educational intervention  
PI: Faika Zanjani and Deborah Murray (University of Kentucky)  
Agency: USDA  
Dates: October 2007 to October 2008  
Role: Co-Investigator
5. Title: Development of a hand-held diagnostic test for bovine tuberculosis  
PI: Shigetoshi Eda (University of Tennessee, Knoxville)  
Agency: Animal Health Board (New Zealand)  
Dates: July 2007 to July 2008  
Role: Co-Investigator
6. Title: Kentucky regional outreach and training consortium: A multi-county approach to blood-lead poisoning risk reduction in Kentucky's pediatric medicaid population.  
PI: Larry Figgs (University of Kentucky)  
Agency: EPA  
Dates: September 2007 to August 2009  
Role: Co-PI
7. Title: Development of an on-site diagnostic device for Johne's disease  
PI: Adam Branscum and Shigetoshi Eda (University of Tennessee, Knoxville)  
Agency: USDA  
Dates: 2009-2010  
Role: Co-Investigator
8. Title: The role of leptin in inflammation-driven bone loss  
PI: Urszula Iwaniec (Oregon State University)  
Agency: NIH/NIAMS R01  
Dates: December 2011 to November 2016  
Role: Co-I
9. Title: Resolving racial disparities using sHER-based clinical tests  
PI: Andre Baron  
Agency: Kentucky Science & Engineering Foundation; KSEF-11-SBIR-242  
Dates: July 2011 to December 2011  
Role: Co-Investigator
10. Title: Exercise, histamine receptors, & vascular health in aging  
PI: John R. Halliwill (University of Oregon)  
Agency: NIH/NHLBI R01  
Dates: June 2013 to May 2017  
Role: Co-Investigator

11. Title: Chronic alcohol abuse: suppression of bone remodeling in non-human primates  
PI: Urszula Iwaniec (Oregon State University)  
Agency: NIH/NIAA R03 (AA022454)  
Dates: September 2013 to September 2015  
Role: Co-Investigator
12. Title: Role of bone marrow adipocytes in bone loss during simulated spaceflight  
PI: Russell Turner (Oregon State University)  
Agency: NASA (NNX12AL24G)  
Dates: September 2012 to September 2015  
Role: Co-Investigator
13. Title: Spaceflight-induced changes in non-shivering thermogenesis and effects on bone in mice  
PI: Russell Turner (Oregon State University)  
Agency: NASA (NNH14ZTT002N NRA)  
Dates: July 2015 to July 2017  
Role: Co-Investigator
14. Title: Mast cells mediate the skeletal response to intermittent and continuous PTH  
PI: Russell Turner (Oregon State University)  
Agency: NIH-NIAMS R21 (AR066811)  
Dates: April 2015 to April 2017  
Role: Co-Investigator
15. Title: The WAVE Ripples for change: Obesity prevention in active youth  
PI: Siew Sun Wong (Oregon State University)  
Agency: USDA National Institute of Food and Agriculture - Agriculture Food and Research Initiative (Award No. 2013-67001-20418)  
Dates: 2013 to 2018  
Role: Co-Investigator
16. Title: Complex systems analysis of the impact of alcohol on bone in non-human primates  
PI: Urszula Iwaniec (Oregon State University)  
Agency: NIH-NIAAA R01 (AA026289-01)  
Dates: 2017 to 2022  
Role: Co-Investigator
17. Title: Housing temperature: An important variable for simulated spaceflight studies using mice  
PI: Russell Turner (Oregon State University)  
Agency: NASA  
Dates: 2019 to 2021  
Role: Co-Investigator

18. Title: Novel tools for test evaluation and disease prevalence estimation  
COST – European Cooperation in Science and Technology (one of 40 proposals approved by the EU)
19. Title: Time course for re-adaptation of thermoregulation and bone following spaceflight  
PI: Russell Turner (Oregon State University)  
Agency: NASA  
Dates: 2020 to 2022  
Role: Co-Investigator
20. Title: Effectiveness and scalability of a home health navigator program to reduce environmental hazards  
PI: Molly Kile and Veronica Irvin (Oregon State University)  
Agency: NIH/NIEHS R01 ES031669-01  
Role: Co-Investigator  
Dates: 2020 to 2024
21. Title: Effect of alcohol consumption on molecular risk factors for SARS-CoV-2  
PI: Urszula Iwaniec (Oregon State University)  
Agency NIH/NIAAA R01 AA026289 Supplement  
Role: Co-Investigator  
Dates: 2020 to 2022
22. Title: Role of leptin in inflammation-driven bone loss  
PI: Urszula Iwaniec (Oregon State University)  
Agency: NIH/NIAMS R01  
Role: Co-Investigator  
Dates: 2021 to 2026
23. Title: Effects of alcohol on bone remodeling balance in male and female non-human primates and humans  
PI: Urszula Iwaniec (Oregon State University)  
Agency: NIH/NIAAA R03  
Role: Co-Investigator  
Dates: 2024 to 2026

## TALKS AND WORKSHOPS

---

1. WNAR 2019; Portland, OR (invited).
2. Baylor University, Department of Statistical Science, Seminar Series, Spring 2018 (invited).

3. University of Alabama, Department of Mathematics Seminar Series, Spring 2016 (invited).
4. UC Irvine, Department of Statistics Seminar Series, Winter 2016 (invited).
5. WNAR 2015; Boise, ID (invited).
6. Oregon State University, Department of Statistics Seminar Series, Winter 2015.
7. Pontifical Catholic University of Chile, Facultad de Matemáticas, September 2013 (invited).
8. Baylor University, Department of Statistical Science, Seminar Series, Fall 2012 (invited).
9. University of South Carolina, Department of Statistics, Seminar Series, Fall 2012 (invited).
10. WNAR 2012; Fort Collins, CO (invited).
11. WNAR 2011; San Luis Obispo, CA (invited).
12. Oregon State University, Department of Public Health Seminar Series, Spring 2011.
13. Oregon State University, Department of Statistics Seminar Series, Spring 2011.
14. Joint Statistical Meetings 2008; Denver, Colorado.
15. Joint Statistical Meetings 2007; Salt Lake City, Utah.
16. ENAR 2007; Atlanta, Georgia.
17. Joint Statistical Meetings 2006; Seattle, WA (invited).
18. International Biometric Conference 2006; Montreal, Quebec, Canada (invited).
19. The American Association of Veterinary Laboratory Diagnosticians. Invited speaker for the workshop on *Sampling Methods for Detection of Disease*, Minneapolis, MN; 2006.
20. Texas A&M University, Department of Integrative Biosciences, 2005.
21. University of California, Davis, Medical Center, Sacramento, California, 2004.
22. Joint Statistical Meetings, Toronto, Canada, 2004 (topic contributed).
23. Statistics Research Day, California State University, Hayward, 2004 (Keynote speaker).
24. Conference of Research Workers in Animal Diseases, Chicago, Illinois, 2003.
25. Workshop on Bayesian modeling and WinBUGS. UC Davis, May 9-10, 2003.
26. 24th Annual Institute on Research and Statistics, Sacramento Statistical Association, Sacramento, California, 2002 (invited).

## TEACHING EXPERIENCE

---

---

1. **Instructor**, Oregon State University, Biostatistics Program:

Generalized Linear Models and Categorical Data Analysis (H 581)  
Online Ecampus: Logistic Regression in Public Health (HHS 527)  
Online Ecampus: Linear Regression in Public Health (HHS 526)  
Linear Regression and Analysis of Time to Event Data (H 580)  
Analysis of Time to Event Health Data (H 587)  
Basics of SAS (H 599)  
Online Ecampus: Introduction to Biostatistics (H 524)  
Online Ecampus: Introduction to Health Data Analysis (H 220)  
Analysis of Intervention Studies and Clinical Trials (H 584)  
Analysis of Correlated Health Data (H 582)  
Doctoral Seminar in Public Health (H 612)  
Introduction to Biostatistics (H 524 / HDFS 530)  
Introduction to Health Data Analysis (H 220)

2. **Instructor**, University of Kentucky, Departments of Biostatistics and Statistics:

Advanced Regression (BST 760)  
Biometrics I (BST 675)  
Introduction to Statistical Methods (STA 602)  
Introduction to Statistical Inference (STA 525)  
Spatial Statistics (CPH 738)  
Bayesian Inference (STA 630)  
Theory of Statistical Inference I (STA 532)  
Biostatistics I (STA 580)  
Biostatistics II (CPH 630/STA 681)  
Advanced Biostatistics Methods in Public Health (CPH 930)

## STUDENT COMMITTEES

---

---

- Masters committee chair (20 students)
- Masters committee member (90 students)

- PhD committee chair and member (62 students)

## SERVICE AND ADMINISTRATION

---

---

- Editorial service
  - Associate Editor, *Biometrics* (2013 - 2021, with reappointments for two-year terms in 2015, 2017, and 2019)
  - Editor, *Statistical Methods in Medical Research* (January 2017 - January 2018)
  - Associate Editor, *Statistical Methods in Medical Research* (2012 - 2016)
  - Associate Editor, *The American Statistician* (2011 - 2018)
  - Associate Editor, *Bayesian Analysis* (2010 - 2016)
  - Reviewed over 70 manuscripts for journals including *Journal of the American Statistical Association*, *Biometrics*, *Biostatistics*, *Statistics in Medicine*, *American Journal of Epidemiology*, *Annals of Epidemiology*, *Journal of Clinical Epidemiology*, *Preventive Veterinary Medicine*, *The American Statistician*, *BMC Medical Informatics and Decision Making*, *Lifetime Data Analysis*, *Computational Statistics and Data Analysis*, *PLOS ONE*, *BMC Medical Research Methodology*, *Biometrical Journal*, *Statistical Methods in Medical Research*, *Computational Statistics*, *Electronic Journal of Statistics*, *JABES*, *Environmetrics*, and *Statistics in Biopharmaceutical Research*
- External
  - Reviewer, FONDECYT 2018 grant competition, Chilean National Science and Technology Commission. (September 2017 - November 2017)
  - Member, Committee to select a new Editor of *The American Statistician* (January 2017 - April 2017)
  - Chair, WNAR Student Paper Competition Committee (January 2017 - June 2017)
  - Chair, WNAR Student Paper Competition Committee (January 2016 - June 2016)
  - Member, WNAR Student Paper Competition Committee (May 2015 - June 2015)
  - Member, NIH Cancer Diagnostics and Treatments Study Section (April 2015 - July 2015)
  - Member, WNAR Regional Advisory Board (January 2015 - July 2017)
  - Member, Association of Schools of Public Health Council, Biostatistics and Epidemiology (Fall 2011-Spring 2016)
  - Member, ASA COPSS Awards Committee (Fall 2010 - June 2015)

- Member, ASA Section on Bayesian Statistical Science, Student Paper Awards Committee (2009, 2015)
- Internal to Oregon State University
  - Member, CEPH Self-Study Committee on Organization, Administration, and Evaluation
  - MPH Faculty Committee (September 2024 - June 2026)
  - Co-chair, SNPH Promotion and Tenure committee (September 2024 - June 2027)
  - Chair, Search Advisory Committee, Biostatistics Assistant Professor of Teaching (Fall 2023 - Spring 2024)
  - Member, OPHA Student Poster Competition Committee (Fall 2022)
  - Member, 2022 College Awards Committee (Spring 2022)
  - Member, Biostatistics Instructor Search Advisory Committee (Fall 2021-Spring 2023)
  - Member, University Advisory Board for the Center for Quantitative Life Science (Fall 2021 - present)
  - Member, Committee to create an online BS degree in public health (Spring 2020 - Fall 2021)
  - Member, Committee on quantitative methods and analysis courses in the College (Spring 2019)
  - Member, Committee on research goals in the College Strategic Plan (Fall 2018)
  - Chair, College Curriculum Committee (April 2018 - June 2020)
  - Member, BPHS and SOBE Associate School Head Screening Committee (Spring 2018)
  - Member, SOBE School Head Screening Committee (February 2018 - May 2018)
  - Member, College Fellowship Committee (January 2018 - June 2020)
  - Member, CEPH Self-study Committee on Curriculum/Academic Programs (September 2017 - June 2018)
  - Member, BPHS personnel committee (September 2017 - June 2020; Reappointment September 2020 - June 2021)
  - Chair, Biostatistics hiring committee (February 2017 - June 2018)
  - Member, Committee to create an online MPH degree (February 2016 - June 2018)
  - Member, College of Public Health and Human Sciences promotion and tenure committee (September 2014 - September 2016)
  - Member, Faculty Council for Graduate Studies (September 2014 - September 2015)
  - Member, EOHS hiring committee (September 2014 - June 2015)

- Chair, Biostatistics hiring committee (January 2014-May 2014)
- Member, MPH core curriculum integration (March 2014 - June 2015)
- Co-chair, Developmental methods hiring committee in HDFS (January 2013- May 2013)
- Member, Faculty Advancement Council, Workshops on faculty workload and research, graduate education, and workforce development (Summer 2012)
- Member, Coordinators Council, School of Biological & Population Health Sciences (Fall 2011- September 2015)
- Member, Curriculum committee, School of Biological & Population Health Sciences (Fall 2012 - September 2015)
- Member, Personnel Committee, School of Biological & Population Health Sciences (Fall 2011-Spring 2012)
- Member, CEPH Accreditation subcommittee on Students, Faculty and Staff (Fall 2011-Spring 2012)
- Member, OMPH Track Coordinator Committee (Fall 2010-Fall 2011)
- Member, Search committee for Co-Director for School of Biological and Population Health Sciences (Spring 2011)
- Biostatistics Program Coordinator (October 2010 - September 2015)
- Member, Biostatistics hiring committee (2 positions; Fall 2010 - Winter 2011)
- Member, Epidemiology hiring committee (2 positions; Fall 2010 - Spring 2011)
- Oregon Master's of Public Health Student Award Selection Committee (Spring 2011)
- Member, Committee for the University's Programs in Statistics (Fall 2010 - June 2015)

- Internal to University of Kentucky

- Member, Faculty Council, College of Public Health (Summer 2009 - Summer 2010).
- Member, Teaching Evaluation Workgroup, College of Public Health (Summer 2010).
- Member, MS statistics/biostatistics track subcommittee, Department of Statistics (Fall 2007 - Spring 2008).
- Member, Protocol Review Committee, Markey Cancer Center (2007).
- Member, Research Committee, College of Public Health (Fall 2007 - Summer 2010).
- Member, Academic Performance Committee, College of Public Health (2008).
- Member, MS Statistical Inference exam committee, Department of Statistics (Summer 2007, 2008, 2009, 2010).



- Member, MS Statistical Methods exam committee, Department of Statistics (Summer 2010).
- Member, Undergraduate Program in Public Health committee, College of Public Health (Spring 2007).
- Member, Joint Biostatistics-Epidemiology Ph.D. committee, College of Public Health (Fall 2006 - Spring 2009).
- Member, Practice and Service Committee, College of Public Health (Fall 2005 - Summer 2007).
- Ex-officio member, The Institutional Animal Care and Use Committee (Fall 2005 - Summer 2010).
- Chair, DrPH biostatistics exam committee (June 2006; January 2008 and June 2008).
- Member, DrPH biostatistics exam committee (January and June 2007; January and June 2009).
- Judge, College of Public Health Research Day (2006, 2007, 2010).
- Consulting committee, Department of Statistics (Member, Fall 2006-Fall 2008; Chair, Fall 2008-Summer 2010).

## **PROFESSIONAL MEMBERSHIPS**

---

American Statistical Association, Institute of Mathematical Statistics, International Biometric Society, International Society for Bayesian Analysis