

Bruce A. Craig

Work address:

Department of Statistics
Purdue University
150 N. University Street
West Lafayette, IN 47907
Phone: 765-494-6043 Fax: 765-494-0558
Web site: www.stat.purdue.edu/~bacraig Email: bacraig@purdue.edu

Education:

1996, PhD in Statistics, University of Wisconsin-Madison
Advisor: Michael A. Newton
Thesis : Analysis of Hidden Markov Models via Markov Chain Monte Carlo
Minor: Wildlife Population Dynamics

1991, MS in Applied Statistics, University of Wisconsin-Madison
1989, BA in Mathematics and Economics, Washington University in St. Louis

Professional Experience:

Professor, Statistics, Purdue University (2007 - present)
Director, Statistical Consulting Service, Purdue University (2004 - present)
Associate Head, Department of Statistics, Purdue University (2008-2009, 2010-2012, 2020 - 2024)
Associate Professor, Statistics, Purdue University (2002 - 2007)
Associate Director, Statistical Consulting Service, Purdue University (2000 - 2004)
Assistant Professor, Statistics, Purdue University (1996 - 2002)

Awards and Honors:

2023: National Agricultural Statistics Service (NASS) Cooperator of the Year
2022: College of Science Outstanding Service Award, Purdue University
2021: Purdue Insights Forum Program Fellow
2021: Presidential Award, American Society of Agronomy (shared). For the impact NCCC-170, a USDA-supported committee of statisticians from agricultural research stations, has had on the society
2017: College of Science Leadership Award, Purdue University
2016: Fellow of the American Association for the Advancement of Science (AAAS)
2015: College of Science Team Award, Purdue University
2014: College of Science Engagement Award, Purdue University
2011: Fellow of the American Statistical Association (ASA)
2007: Full member of Sigma Xi
2007: College of Science Graduate Student Mentoring Award, Purdue University
2005 - 2010: Purdue University Faculty Scholar

- 1995: Student Award and Travel Fellowship for the paper “Analysis of Aerial Survey Data using Markov chain Monte Carlo”, IMS/ENAR Eastern Regional Meeting, Birmingham, Alabama. In addition, selected as one of the three best papers submitted for competition.
- 1994: College of Letters and Science Teaching Fellow, University of Wisconsin-Madison. Selected as one of 18 to lead teaching assistant training workshops for over 400 TAs in the College of Letters and Science.
- 1989: The Sigma Alpha Epsilon Besser-Lindsey Award, regional award for achievement in scholarship, athletics, and fraternity.
- 1989: A Gwendolyn Drew Award, in recognition of a male and female senior student “with superior academic standing who has contributed positively to varsity athletics.” Washington University in St. Louis.

Society Memberships:

American Statistical Association (ASA), International Biometric Society (IBS/ENAR), American Association for the Advancement of Science (AAAS), Sigma Xi

Research Interests:

Bayesian hierarchical modeling, primarily in biometrical and biostatistical applications; Statistical consulting; Diagnostic testing; Population dynamics modeling; Statistical genetics, primarily microarrays and QTL analysis; Markov chain Monte Carlo and other simulation-based inference methods; Statistical education.

Professional Activities:

- 2025: Member, External Review Panel, Department of Statistics, University of Virginia
- Organized and chaired topic-contributed session titled “The Lasting Impacts of George P McCabe”, *Joint Statistical Meetings*, Portland, Oregon, August 7, 2024.
- 2024: Member, External Review Panel, Department of Statistics, North Carolina State University
- 2021-2024: Member of the Conference on Applied Statistics in Agriculture and Natural Resources Planning Committee. Chair and host in 2023
- 2021: Panel member for Statistical Consulting Section webinar titled “Promotion of Collaborative Statisticians”
- 2020 - 2025: Senior Fellow, National Institute of Statistical Sciences
- 2015 - 2018: Elected representative of the Statistical Consulting Section to the Council of Sections of the American Statistical Association of the American Statistical Association
- 2019-present: American College of Surgeons Data Monitoring Board member
- 2015: Panel member of the NSF Statistics Program
- 2012 - present: Administrative Advisor of NCCC-170 (see description below)

- 2012 - 2020: Associate Editor of *The American Statistician*
- 2011 - 2012: Reviewer of Simons Foundation Collaboration Grants
- 2011: Panel member of the NSF DMS/NIGMS Initiative to Support Research at the Interface of the Biological and Mathematical Sciences
- 2011 reviewer of Simons Foundation Collaboration Grants
- 2010: Panel member, University of Wisconsin-Madison College of Letters and Science Teaching Fellows Symposium (20th anniversary of the Teaching Fellows Program held November 5th)
- 2010: Lecturer, University of Canterbury, Christchurch, New Zealand, Feb 22 - April 4.
- 2010-2011: Member of the 2011 International Conference on Health Policy Statistics (ICHPS) Scientific Planning Committee
- 2009-2010: Member of the planning committee for an ASA sponsored statistical practice conference
- 2008 - 2010: Chair of the Statistical Consulting Section of the American Statistical Association. Elected by voting section membership.
- 2008: Instructor, International Summer School "Statistical Inference in Biology and Human Sciences", University Centre of Asti, Italy June 23 - July 4.
- 2008 - 2020: Consultant of Antimicrobial Susceptibility Subcommittee of Clinical and Laboratory Standards Institute (CLSI)
- 2007-present: American College of Surgeons Data Monitoring Board member
- 2005 - present: Member of the Cook Data and Safety Monitoring Board
- 2005-2008: Associate Editor of the *Biometrics*
- 2004 & 2006: Panel member of the NIH National Center for Research Resources (NCR) Centers of Biomedical Research Excellence (COBRE) program
- 2004-2006: Member of the ENAR Regional Committee
- 2004: Panel member of the NSF Undergraduate Interdisciplinary Traineeships in Biology and Mathematics (UBM) program
- 2003 - 2006: International Biometric Society Eastern North American Regional (ENAR) Committee (RECOM) member. Elected by voting membership.
- 2003-2005: Co-Associate Chair of the Committee on the Use of Human Research Subjects, Purdue University
- 2003-2008: Associate Editor of the *Journal of Agricultural, Biological, and Environmental Statistics* (JABES)
- 2003: Visiting Faculty, Los Alamos D-1 Statistical Sciences
- 2003-2004: Member of the 2004 ENAR Program Committee
- 2002-2008: Committee on the Use of Human Research Subjects, Purdue University
- 2001-2004: American College of Surgeons Data Monitoring Board member
- 2000-2001: Member of the 2001 ENAR Program Committee
- 1999 - 2001: President-appointed member of International Biometric Society Eastern North American Regional (ENAR) Advisory Board (RAB)

1998-present: Indiana representative on NCCC-170, a USDA supported committee of statisticians from agricultural research stations who focus its efforts on the development of educational materials to promote the implementation of sound statistical practice. This involves the development of workshop materials accessible through our web site and the delivery of workshops at various professional society meetings.

1997-2000: Statistical Consultant for the National Committee on Clinical Laboratory Standards (NCCLS) subcommittee on antimicrobial susceptibility testing

1999-2002: Member of the ENAR Regional Advisory Board (RAB)

Teaching Experience, Purdue:

1. Statistical Consulting and Collaboration, Spring '06, '07, '08, '09, '11, '12, '13, '14, '15, '16, '17, '18, '19, '22, '23, '24. Online, Fall '24. '25.
2. Intermediate Statistical Methodology, Fall '03, '04, '06, '07, '13. Spring '21.
3. Advanced Statistical Methodology, Fall '19, '20. Online, Summer '24.
4. Applied Linear Regression, Spring '02, Fall '02, '12, '16, '18
5. Design of Experiments, Fall '97, '98, '99, '00, '01, '11, '14, '15, '22. Spring '00, '04, '14, '15, '17, '18
6. Sampling Design and Analysis, Spring '25.
7. Systematic Reviews and Meta-analysis in Agriculture and the Environment, Spring '22, '23, '24, '25.
8. Statistical Methods in Health Economics, Fall '01.
9. Distinguishing Good and Bad Science through Data Analysis, Fall '19, '20, '21.
10. Experimental Statistics II, Spring '01
11. Statistical Methods for Biology, Fall '97, Spring '99, Fall '99.
12. Seminar in Biostatistics/Stat Genetics, Spring '98, '99.
13. Statistical Methods I, Spring '97, '05
14. Quality Control, Fall '96.

Publications: (^u and ^g indicate Craig undergraduate and graduate students, respectively)

Refereed Publications :

1. Peng, C-H, Griffis, MR, Rusco, A, Berry, KL, Pearson, WG, Craig, BA, and Malandraki, GA. (2026) Characterizing submental neuromuscular activity of swallowing rehabilitation: An electromyographic evaluation of rehabilitative maneuvers in healthy adults, *Journal of Speech, Language, and Hearing Research*, to appear.
2. Peng, C-H, Berry, K, Griffis, M, Rusco, A, Craig, BA, and Malandraki, GA. (2026) Optimization and Device-Level Validation of the i-Phagia sEMG Submental Sensor Patch for Swallowing Monitoring: A Randomized Crossover Design Study, *Journal of Speech, Language, and Hearing Research*, to appear.
3. Arkenberg, RH, Delaney, A, Seidl, A, Moding, K, Hustad, K, Craig, BA, and Malandraki, GA (2026) How do infants eat at home? A preliminary study of complementary feeding skills in the naturalistic environment, *American Journal of Speech-Language Pathology*, to appear.
4. Qin, Y, Craig, BA, Bailet, R, Abbott, A, Connolly, B, and Eicher-Miller, HA. (2026) Body mass index was maintained among women with low incomes in Indiana who participated in food assistance and/or federal nutrition education over 1 year, *Current Developments in Nutrition*, to appear.
5. Bauer Malandraki, J, Bryan, J, Wetzel, D, Schaser, A, Craig, BA, and Malandraki, GA. (2025) Impact of a Novel Hybrid Computer-Based Simulation Adult Dysphagia Training on the Confidence and Clinical Knowledge of Speech-Language Pathology Graduate Students, *Teaching and Learning in Communication Sciences & Disorders*, 9(3), Article 2.
6. Mitchell, SS, Fujiki, RB, Oliver, AJ, Craig, BA, Malandraki, GA (2025) Effects of the Head Lift and Recline Exercise Regimens on the Neuromuscular Control of Functional Swallowing in Older Adults: An Electromyography Study Revealing Potential Differential Mechanisms, *Journal of Speech, Language, and Hearing Research*, 68(8), 3759–3770.
7. Rothenberger, SM, Zhang, JC, Markl, M, Craig, BA, Vlachos, PP, and Rayz, VL (2024) 4D Flow MRI Velocity Uncertainty Quantification, *Magnetic Resonance in Medicine*, 93(1), 397–410.
8. Sharp, J, Griffith, EH, Craig, BA, Hanlon, A, Peskoe, S, and Van Mullekom, J (2024) The Current Landscape of Academic Statistical and Data Science Collaboration Units with Examples, *STAT*, 13(3), e718.
9. Gerber EAE^g and Craig, BA (2024) Residuals and diagnostics for multinomial regression models, *Statistical Analysis and Data Mining*, 17(1), e11645. (**named a 2024 top-viewed article**)

10. Rothenberger, SM, Patel, NM, Zhang, JC, Schnell, S, Craig, BA, Ansari, SA, Markl, M, Vlachos, PP, and Rayz, VL (2023) Automatic 4D Flow MRI Segmentation Using the Standardized Difference of Means Velocity, *IEEE Transactions on Medical Imaging*, 42(8), 2360–2373.
11. Arkenberg, REH, Brown, B, Mitchell, S, Craig, BA, Goffman, L and Malandraki, GA (2023) Shared and separate neuromuscular underpinnings of swallowing and motor speech development in the school-age years, *Journal of Speech, Language, and Hearing Research*, 66(9), 3260–3275.
12. Arkenberg, REH, Mitchell, SS, Brown, B, Craig, BA, Burdo-Hartman, W, Lundine, JP, Goffman, L, Smith, A, Malandraki, GA (2023) Neuromuscular adaptations of swallowing and speech in Unilateral Cerebral Palsy: Shared and separate traits, *Journal of Neurophysiology*, 130(6), 1375–1391.
13. Buczkowski, G, Wang^g, SH and Craig, BA (2023) Behavioral assays reveal mechanisms of supercolony formation in odorous house ants, *Scientific Reports*, 13(1), Article #9013
14. Malandraki, GA, Kantarcigil, C, Craig, BA, Zhang, Y, and Gordon, AM (2023) Day-to-day variability of clinical feeding and swallowing performance in school-age self-feeding children with cerebral palsy, *American Journal of Speech-Language Pathology*, 32, 190–200.
15. Sevit, JS, Bryan, JL, Mitchell, SS, Craig, BA, Huber, JE, Troche, MS, and Malandraki, GA (2023) Telehealth management of dysphagia in adults: A survey of speech language pathologists experiences and perceptions, *Dysphagia*, **38(4)**, 1184–1199.
16. Qin, Y, Rivera, RL, Zhang, Y, Wang Q, Tooze, JA, Abbott, AR, Maulding, MK, Craig, BA, Bailey, RL, and Eicher-Miller, HA (2023) A Randomized Intervention of Supplemental Nutrition Assistance Program - Education Did Not Improve Dietary Outcomes Except for Vitamin D Among Lower-Income Women in Indiana, *Journal of the Academy of Nutrition and Dietetics*, **123(2)**, 284–298.
17. Griffith, EH, Sharp, JL, Bridges, WC, Craig, BA, Hanford, KR, and Stevens, JR (2022) The Academic Collaborative Statistician: Research, Training, and Evaluation. *STAT*, e483.
18. Eicher-Miller, HA, Wright, BN, Tooze, JA, Craig, BA, Liu, YB, Bailey, RL, McCormack, LA, Stluka, S, Franzen-Castle, L, Henne, B, Mehrle, D, and Remley, D (2022) Evaluating a food pantry-based intervention to improve food security, dietary intake, and quality in Midwestern food pantries, *Journal of the Academy of Nutrition and Dietetics*, 122(11), 2060-2071.
19. Malandraki, GA, Mitchell, SS, Arkenberg, REH, Brown, B, Craig, BA, Burdo-Hartman, W, Lundine, JP, Darling-White, M, and Goffman, L (2022) Swallowing and motor speech skills in unilateral cerebral palsy: Novel findings

- from a preliminary cross-sectional study, *Journal of Speech Language and Hearing Research*, **65**(9), 3300–3315.
20. Gerber^g, E, and Craig, BA. (2021) A mixed effects multinomial logistic-normal model for forecasting baseball performance. *Journal of Quantitative Analysis in Sports*, **17**(3), 221–239.
 21. Cho, HY, Heijnen, MJH, Craig, BA, and Rietdyk, S (2021) Falls in young adults: The effect of sex, physical activity, and prescription medications. *PLoS ONE*, **16**(4), e0250360.
 22. Li^g, Y, Datta, J, Craig, BA, Bhadra, A. (2021) Joint mean-covariance estimation via the horseshoe. *Journal of Multivariate Analysis*, **183**, Article # 104716.
 23. Liu Y, Desmond, NE, Wright, BN, Bailey, RL, Dong, T, Craig, BA, Eicher-Miller, HA. 2021. Nutritional contributions of food pantries and other sources to the diets of rural, Midwestern food pantry users in the USA. *British Journal of Nutrition*, **125**(8), 891–901.
 24. Kantarcigil, C, Kim, MK, Chang, T, Craig, BA, Smith, A, Lee, CH, Malandraki, GA. 2020. Validation of a novel wearable electromyography patch for monitoring submental muscle activity during swallowing: A randomized crossover trial. *Journal of Speech Language and Hearing Research*, **63**(10), 3293–3310. (Winner of 2020 Editor’s Award)
 25. Venkatraman, A, Fujiki, RB, Craig, BA, Sivasankar, MP, Malandraki, GA. 2020. Determining the underlying relationship between swallowing and maximum vocal pitch elevation: A preliminary study of their hyoid biomechanics in healthy adults. *Journal of Speech Language and Hearing Research*, **63**(10), 3408–3418.
 26. Byrd, CJ, Radcliffe, JS, Craig, BA, Eicher, SD, Lay Jr., DC. 2020. Measuring piglet castration pain using linear and non-linear measures of heart rate variability. *Animal Welfare*, **29**(3), 257–269.
 27. Rivera, RL, Zhang, YM, Wang, Q, Maulding, MK, Tooze, JA, Wright, BN, Craig, BA, Bailey, RL, Eicher-Miller, HA. 2020. Diet quality and associations with food security among women eligible for Indiana supplemental nutrition assistance program-education. *Journal of Nutrition*, **150**(8), 2191–2198.
 28. Byrd, CJ, Johnson, JS, Radcliffe, JS, Craig, BA, Eicher, SD, Lay Jr., DC. 2020. Nonlinear analysis of heart rate variability for evaluating the growing pig stress response to acute heat episode. *Animal*, **14**(2), 379–387.
 29. Griebel, S, Westerman, RP, Adeyanju, A, Addo-Quaye, C, Craig, BA, Weil, CF, Cunningham, SM, Patel, B, Campanella, OH, Tuinstra, MR. Mutations in sorghum SBEIIb and SSIIa affect alkali spreading value, starch composition, thermal properties and flour viscosity. *Theoretical and Applied Genetics*, **132**(12), 3357–3374.

30. Wallace, TC, Jun, S, Zou, P, McCabe, GP, Craig, BA, Cauley, JA, Weaver, CM, Bailey, RL. 2020. Dairy intake is not associated with improvements in bone mineral density or risk of fractures across the menopause transition: Data from the Study of Women's Health Across the Nation. *Menopause*, **27(8)**, 879–886.
31. Bailey, RL, Zou, P, Wallace, TC, McCabe, GP, Craig, BA, Jun, S, Cauley, JA, Weaver, CM. 2020. Calcium supplement use is associated with less bone mineral density loss, but does not lessen the risk of bone fracture across the menopause transition: Data from the Study of Women's Health Across the Nation. *Journal of Bone and Mineral Research, Plus*, **4(1)**, e10246.
32. Byrd, CJ, Craig, BA, Eicher, SD, Radcliffe, JS, Lay Jr., DC. 2019. Short communication: Assessment of disbudding pain in dairy calves using nonlinear measures of heart rate variability, *Journal of Dairy Science*, **102(9)**, 8410–8416.
33. Li^g, Y, Craig, BA, and Bhadra, A. 2019. The Graphical Horseshoe Estimator for Inverse Covariance Matrices, *Journal of Computational and Graphical Statistics*, **28(3)**, 747–757.
34. Fujiki, RB, Oliver, A, Malandraki, JB, Wetzel, D, Craig, BA, and Malandraki, G. 2019. The Recline and Head Lift Exercises: A Randomized Clinical Trial Comparing Biomechanical Swallowing Outcomes and Perceived Effort in Healthy Older Adults, *Journal of Speech, Language, and Hearing Research*, **62(3)**, 631–643.
35. Fujiki, RB, Oliver, A, Sivasankar, MP, Craig, BA, and Malandraki, G. 2019. Secondary Voice Outcomes of a Randomized Clinical Trial Comparing Two Head/Neck Strengthening Exercises in Healthy Older Adults: A Preliminary Report, *Journal of Speech, Language, and Hearing Research*, **62(2)**, 318–323.
36. Lawlor, MR, Weaver, CM, Craig, BA, Whiting, SJ, Baxter-Jones, ADG, Vatanparast, H, and McCabe GP. 2019. Peak BMC Growth and Calcium Requirements for Children, In: Weaver C, Bischoff-Ferrari H, Daly R, Wong MS (eds) *Nutritional Influences on Bone Health*. Springer, Cham., 37–44.
37. Griebel, S, Webb, MW, Campaneela, OH, Craig, BA, Weil, CF, and Tuinstra, MR. 2019. The alkali spreading phenotype in *Sorghum bicolor* and its relationship to starch gelatinization, *Journal of Cereal Science*, **86**, 41–47.
38. Hass^g, Z and Craig, BA. 2018. Exploring the Potential of the Plus/Minus in NCAA Women's Volleyball via the Recovery of Court Presence Information, *Journal of Sports Analytics*, **4(4)**, 285–295.
39. Wright, BN, Bailey, RL, Craig, BA, Mattes, RD, McCormack, L, Stluka, S, Franzen-Castle, L, Henne, B, Mehrle, D, Remley, D, and Eicher-Miller, HA. 2018. Daily Dietary Intake Patterns Improve after Visiting a Food Pantry among Food-Insecure Rural Midwestern Adults, *Nutrients*, **10(5)**, Article #583.

40. Adelsperger, A, Phillips, E, Ibriga, H, Craig, BA, Green, L, Murphy, M, and Goergen, C. 2018. Development and growth trends in angiotensin II-induced murine dissecting abdominal aortic aneurysms, *Physiological Reports*, **6(8)**, e13668.
41. DePalma^g, G and Craig, BA. 2018. Bayesian monotonic error-in-variables models with applications to pathogen susceptibility testing, *Statistics in Medicine*, **37(3)**, 487–502.
42. Mischler, RA, Armah, SM, Craig, BA, Rosen, AD, Banerjee, A, Slezer, DJ, Choi, JN, Gletsu-Miller, N. 2018. Comparison of Oral Iron Supplement Formulations for Normalization of Iron Status Following Roux-EN-y Gastric Bypass Surgery: A Randomized Trial, *Obesity Surgery*, **28(2)**, 369–377.
43. Gallagher^u, P, Craig, BA, Luttermoser, T, and Buczkowski, G. 2017. Paired Competition Analysis using Mixed Models, *The Proceedings of the Kansas State University Conference on Applied Statistics in Agriculture*, Manhattan, KS, 64–73.
44. Sun, H, Craig, BA, and Zhang, L. 2017. Angle-based Multicategory Distance-weighted SVM, *Journal of Machine Learning Research*, **18**, Article #85.
45. Cabezón, FA, Schinckel, AP, León^u, YL, and Craig, BA. 2017. Analysis of lactation feed intakes for sows with extended lactation lengths, *Translational Animal Science*, **1**, 90–96.
46. Osei-Boadi Anguah, K, Lovejoy, JC, Craig, BA, Gehrke, MM, Palmer, PA, Eichelsdoerfer, PE, and McCrory, MA. 2017. Can the palatability of healthy, satiety-promoting foods increase with repeated exposure during weight loss? *Foods*, **6(2)**, Article #16.
47. Hass^g, Z, DePalma^g G, Craig, BA, Xu^g, H, and Sands, LP. 2017. Unmet Need for Help With Activities of Daily Living Disabilities and Emergency Department Admissions Among Older Medicare Recipients, *Gerontologist*, **57(2)**, 206–210.
48. DePalma^g, G., Turnidge, J, and Craig BA. 2017. Determination of disk diffusion susceptibility testing interpretive criteria using model-based analysis: development and implementation, *Diagnostic Microbiology and Infectious Disease*, **87(2)**, 143–149.
49. Rivera, RL, Maulding, MK, Abbott, AR, Craig, BA, and Eicher-Miller, HA. 2016. SNAP-Ed (Supplemental nutrition assistance program-education) increases long-term food security among Indiana households with children in a randomized controlled study, *Journal of Nutrition*, **146(11)**, 2375–2382.
50. Bello, NM, Kramer, M, Tempelman, RJ, Stroup, WW, St-Pierre, NR, Craig, BA, Young, LJ, and Gbur, EE. 2016. Short communication: On recognizing the proper experimental unit in animal studies in the dairy sciences, *Journal of Dairy Science*, **99(11)**, 1–9.

51. Xavier, A, Muir, WM, Craig, BA, and Rainey, KM. 2016. Walking through the statistical black boxes of plant breeding, *Theoretical and Applied Genetics*, **129(10)**, 1933-1949.
52. Dhillon, J, Craig, BA, Leidy, HJ, Amankwaah, AF, Osei-Boadi Anguah, K, Jacobs, A, Jones, BL, Jones, JB, Keeler, CL, Keller, CEM, McCrory, MA, Rivera, RL, Slebodnik, M, Mattes, RD, and Tucker, RM. 2016. The effects of increased protein intake on fullness: A meta-analysis and its limitations. *Journal of the Academy of Nutrition and Dietetics*, **116(6)**, 968–983.
53. Dhawan, D, Paoloni, M, Shukradas, S, Choudhury, DR, Craig, BA, Ramos-Vara, JA, Hahn, N, Bonney, PL, Khanna, C, and Knapp, D. 2015. Comparative gene expression analyses identify luminal and basal subtypes of canine invasive urothelial carcinoma that mimic patterns in human invasive bladder cancer, *PLOS ONE*, 10(9): e0136688.
54. Running CA, Craig, BA, Mattes, RD 2015. Oleogustus: The unique taste of fat, *Chemical Senses*, **40(7)**, 501–516.
55. He, S, Craig, BA, Xu^g, H, Covinsky, KE, Stallard, E, Thomas III, J, Hass^g, Z, Sands, LP. 2015. Unmet Need for ADL Assistance Is Associated with Mortality among Older Adults with Mild Disability, *The Journals of Gerontology: Series A*, **70(9)**, 1128–1132.
56. Cladis, DP, Zhang, R, Tan, Xi, Craig, BA, and Santerre, CR. 2015. Postharvest Correlation between Swordfish (*Xiphias gladius*) Size and Mercury Concentration in Edible Tissues, *Journal of Food Protection*, **78(2)**, 396–401.
57. Hass^g, Z, Zhou^u, Z, and Craig, BA. 2015. Developing prediction equations for carcass lean mass in the presence of proportional measurement error, *The Proceedings of the Kansas State University Conference on Applied Statistics in Agriculture*, Manhattan, KS 115-129.
58. Janle, E, Freiser, H, Mangnais, C, Chen, T-Y, Craig, BA, and Santerre, C. 2015. Green tea increase the concentration of total mercury in the blood of rats following an oral fish tissue bolus, *BioMed Research International*, Article ID 320936.
59. Chandola, H, Williamson, T, Craig, BA, Friedman, A, and Bailey-Kellogg, C. 2014. Stoichiometries and affinities of interacting proteins from concentration series of solution scattering data: Decomposition by least squares and quadratic optimization, *Journal of Applied Crystallography*, **47**, 899–914.
60. Tucker, RM, Edlinger, C, Craig, BA, and Mattes, RD. 2014. Associations between BMI and fat taste sensitivity in humans, *Chemical Senses*, **39(4)**, 349–357.
61. Paul^g, S, Craig, BA, Bailey-Kellogg, C, and Friedman, AM. 2013. Bayesian reconstruction of $P(r)$ directly from two-dimensional detector images via a

- Markov chain Monte Carlo method, *Journal of Applied Crystallography*, **46**(2), 404–414.
62. Xu^g, H, Black, M, and Craig, BA. 2013. Evaluating Accuracy of Diagnostic Tests with Intermediate Results in the Absence of a Gold Standard, *Statistics in Medicine*, **32**(15), 2571–2584.
63. Xu^g, H, Daggy^g, JK, Sands, LP, and Craig BA. 2013. Joint modeling of medical cost and survival in complex sample surveys, *Statistics in Medicine*, **32**(9), 1509–1523.
64. Lawlor, MR, Craig, BA, Schinckel, AP, Einstein, ME, Matthews, JO, Fields, B, Booher, C, Dreading, T, Fralick, C, Tabo, S, Sosnicki, A, Wilson, E, and Boyd, RD. 2013. Development of a procedure to reproduce the variances and relationships amongst carcass measurements and the weight of primal and subprimal lean cuts, *The Professional Animal Scientist*, **29**, 83–88.
65. DePalma^g, G, Xu^g, H, Covinsky, KE, Craig, BA, Stallard, E, Thomas III, J, Sands, LP. 2012. Hospital Readmission among Older Adults Who Return Home With Unmet Need for ADL Disability. *The Gerontologist*, **53**(3), 454–461.
66. Olbricht^g, G, Craig, BA, and Doerge, RW. 2012. Incorporating Genomic Annotation into a Hidden Markov Model for DNA Methylation Tiling Array Data, *Statistical Applications in Genetics and Molecular Biology*, **11**(5), Article 10.
67. Sands, LP, Xu^g, H, Thomas III, J, Paul^g, S, Craig, BA, Rosenman, M, Doebbeling, CC, and Weiner, M. 2012. Volume of Home and Community Based Services and Time to Nursing-home Placement, *Medicare and Medicaid Research Review*, **2**(3), E1–E21.
68. Bharmal, MF, Seema, D, Craig, BA, Weiner, M, Rosenman, M, Sands, LP, Modi, A, Doebbeling, C, and Thomas III, J. 2012. Incremental Dementia-Related Expenditures in a Medicaid Population. *American Journal of Geriatric Psychiatry*, **20**(1), 73–83.
69. Weaver, CM, Campbell, WW, Teegarden, D, Craig, BA, Martin, BR, Singh, R, Braun, MM, Apolzan, JW, Hannon, TS, Schoeller, DA, DiMeglio, LA, Hickey, Y, and Peacock, M. 2011. Calcium, dairy products, and energy balance in overweight adolescents: a controlled trial. *Am J Clin Nutr*, **94**, 1163–1170.
70. Daggy^g, JK, Thomas III, J, and Craig, BA. 2011. Modelling correlated healthcare costs. *Expert Review of Pharmacoeconomics & Outcomes Research*, **11**(1), 101–111.
71. Zentall, SS, Kuester, DA, and Craig, BA 2011. Social behavior in cooperative groups: Students at risk for ADHD and their peers. *The Journal of Education Research*, **104**, 28–41.

72. Thalacker-Mercer, AE, Fleet, JC, Craig, BA, and Campbell, WW 2010. The skeletal muscle transcript profile reflects accommodative responses to inadequate protein intake in younger and older males. *J Nutr Biochem.*, **21(11)**, 1076-1082.
73. Dedhiya, SD, Hancock, E, Craig, BA, Doebbeling, CC, and Thomas III, J. 2010. Incident use and outcomes associated with potentially inappropriate medication use in older adults. *The American Journal of Geriatric Pharmacotherapy*, **8(6)**, 562-570.
74. Xu^g, HP and Craig, BA. 2010. Likelihood Analysis of Multivariate Probit Models Using a Parameter Expanded MCEM Algorithm, *Technometrics*, **52(3)**, 340-348.
75. Olbricht^g, GR, Craig, BA, and Doerge, RW. 2010. Modeling DNA methylation tiling array data, *The Proceedings of the Kansas State University Conference on Applied Statistics in Agriculture*, Manhattan, KS 63-84.
76. Kavathekar, PA, Craig, BA, Friedman, AM, Bailey-Kellogg, C, and Balkcom, DJ. 2010. Characterizing the space of interatomic distance distribution functions consistent with solution scattering data, *J Bioinform Comput Biol.*, **8(2)**, 315-335.
77. Dhawan, D, Craig, BA, Cheng, L, Snyder, PW, Mohammed, SI, Stewart, JC, Zheng, R, Loman, RA, Foster, RS, and Knapp, DW. 2010. Effects of short-term celecoxib treatment in patients with invasive transitional cell carcinoma of the urinary bladder, *Mol Cancer Ther.*, **9(5)**, 1371-1377.
78. Xu^g, H, Weiner, M, Paul^g, S, Thomas III, J, Craig, BA, Rosenman, M, Doebbeling, CC, and Sands, LP 2010. Volume of home- and community-based medicaid waiver services and risk of hospital admissions, *Journal of the American Geriatrics Society*, **58(1)**, 109-115.
79. Greene, SN, Ramos-Vara, JA, Craig, BA, Hooser, SB, Anderson, C, Fourez, LM, Johnson, BM, Stewart, JC, and Knapp, DW 2010. Effects of cyclooxygenase inhibitor treatment on the renal toxicity of cisplatin in rats, *Cancer Chemotherapy and Pharmacology*, **65(3)**, 549-556.
80. Olbricht^g, GR, Sardesai, N, Gelvin, SB, Craig, BA, and Doerge, RW. 2009. Statistical methods for Affymetrix tiling array data, *The Proceedings of the Kansas State University Conference on Applied Statistics in Agriculture*, Manhattan, KS 111-125.
81. Fleming-Waddell, JN, Olbricht^g, GR, Taxis, TM, White, JD, Vuocolo, T, Craig, BA, Tellam, RL, Neary, MK, Cockett, NE, and Bidwell, CA. 2009. Effect of DLK1 and RTL1 but not MEG3 or MEG8 on muscle gene expression in callipyge lambs, *PLoS ONE*, **4(10)**, e7399.
82. Modi, A, Weiner, M, Craig, BA, Sands, LP, Rosenman, MB, and Thomas III, J. 2009. Concomitant use of anticholinergics with acetylcholinesterase inhibitors

- in medicaid recipients with dementia and residing in nursing homes, *Journal of the American Geriatrics Society*, **57(7)**, 1238-1244.
83. Zemel, MB, Teegarden, D, Van Loan, M, Schoeller, DA, Matkovic, V, Lyle, RM, and Craig, BA. 2009. Dairy-Rich Diets Augment Fat Loss on an Energy-Restricted Diet: A Multicenter Trial. *Nutrients*, **1(1)**, 83-100.
84. Singh, R, Martin, BR, Hickey, Y, Teegarden, D, Campbell, WW, Craig, BA, Schoeller, DA, Kerr, DA, and Weaver, CM. 2009. Comparison of self-reported and measured metabolizable energy intake with total energy expenditure in overweight teens, *American Journal of Clinical Nutrition*, **89(6)**, 1744-1750.
85. Knapp^g, SM, Craig, BA, and Waits, LP. 2009. Incorporating genotyping error into non-invasive DNA-based mark-recapture population estimates, *Journal of Wildlife Management*, **73(4)**, 598-604.
86. Xu^g, H and Craig, BA. 2009. A probit latent class model with general correlation structures for evaluating accuracy of diagnostic tests, *Biometrics*, **65(4)**, 1145-1155.
87. Cuendet, M, Oteham, CP, Maiti, A, Craig, BA, Cushman, M, Moon, RC, and Pezzuto, JM. 2008. Zapotin Prevents Mouse Skin Tumorigenesis During the Stages of Initiation and Promotion, *Anticancer Research*, **28**, 3705-3709.
88. Sands, LP, Xu^g, H, Craig, BA, Eng, C, and Covinsky, KE. 2008. Predicting Change in Functional Status over Quarterly Intervals for Older Adults Enrolled in the PACE Community-based Long-term Care Program, *Aging Clinical and Experimental Research*, **20(5)**, 419-427.
89. Sands, LP, Xu^g, H, Weiner, M, Rosenmann, M, Craig, BA, Thomas III, J. 2008. Comparison of Resource Utilization for Medicaid Dementia Patients using Nursing Homes versus Home and Community Based Waivers for Long-term Care, *Medical Care*, **46(4)**, 449-453.
90. Troped, PJ, Oliveira, MS, Matthews, CE, Cromley, EK, Melly, SJ, and Craig, BA. 2008. Prediction of activity mode with global positioning system and accelerometer data, *Medicine and Science in Sports and Exercise*, **40(5)**, 972-978.
91. Williamson, TE, Craig, BA, Kondrashkina, E, Bailey-Kellogg, C, and Friedman, AM. 2008. Analysis of self-associating proteins by singular value decomposition of solution scattering data, *Biophysical Journal*, **94(12)** 4906-4923.
92. Sink, K, Thomas III, J, Xu^g, H, Craig, BA, Kritchevsky, S, and Sands, LP. 2008. Dual Use of Bladder Anticholinergics and Cholinesterase Inhibitors: Long-term Functional and Cognitive Outcomes, *Journal of the American Geriatrics Society*, **56**, 847-853.
93. Teegarden, D, White, K, Lyle, RM, Zemel, MB, Van Loan, M, Matkovic, V, Craig, BA, and Schoeller, D. 2008. Calcium and dairy product modulation of lipid utilization and energy expenditure, *Obesity*, **16(7)**, 1566-1572.

94. Schinckel, AP, Einstein, ME, Foster, K, and Craig, BA. 2008. Evaluation of the impact of errors in the measurement of backfat depth on the prediction of fat-free lean percentage, *The Professional Animal Scientist*, **24(2)**, 136–148.
95. Stewart, LK, Flynn, MG, Campbell, WW, Craig, BA, Robinson, JP, Timmerman, KL, McFarlin, BK, Coen, PM, and Talbert, E. 2007. The influence of exercise training on inflammatory cytokines and C-reactive protein, *Medicine and Science in Sports and Exercise*, **39(10)**, 1714–1719.
96. Russell, RE, Swihart, RK, and Craig, BA. 2007. Vole movements in complex environments: The effects of matrix structure on movement behavior of meadow voles, *Journal of Mammalogy*, **88(3)**, 573–579.
97. Schinckel, AP, Einstein, ME, Foster, K, and Craig, BA. 2008. Evaluation of the impact of errors in the measurement of backfat depth on the prediction of fat-free lean mass, *Journal of Animal Science*, **85(8)**, 2031–2042.
98. Bharmal, MF, Weiner, M, Sands, LP, Xu^g, H, Craig, BA, and Thomas III, J. 2007. Impact of Patient Selection Criteria on Prevalence Estimates and Prevalence of Diagnosed Dementia in a Medicaid Population, *Alzheimer Disease & Associated Disorders*, **21(2)**, 92–100.
99. Thalacker-Mercer, AE, Fleet, JC, Craig, BA, Carnell, NS, and Campbell, WW. 2007. Inadequate protein intake affects skeletal muscle gene expression in older humans, *American Journal of Clinical Nutrition*, **85(5)**, 1344–1352.
100. Fleming-Waddell, JN, Wilson, LM, Olbricht^g, GR, Vuocolo, T, Byrne, K, Craig, BA, Tellam, RL, Cockett, NE, and Bidwell, CA. 2007. Analysis of gene expression during the onset of muscle hypertrophy in callipyge lambs, *Animal Genetics*, **38(1)**, 28–36.
101. Toscano, M, Lay, DC, Craig, BA, and Pajor, EA. 2007. Assessing the adaptation of swine to 57 hours of feed deprivation in terms of behavioral and physiological responses, submitted to *Journal of Animal Science*, **85(2)**, 441–451.
102. Vitek^g, O, Bailey-Kellogg, C, Craig, BA, and Vitek, J. 2006. Inferential Backbone Assignment for Sparse Data, *Journal of Biomolecular NMR*, **35**, 187–208.
103. Liu^g, Y and Craig, BA. 2006. Incorporating time-dependent covariates in survival analysis using the LVAR method, *Statistics in Medicine*, **25(10)**, 1729–1740.
104. McFarlin, BK, Flynn, MG, Campbell, WW, Craig, BA, Robinson, JP, Stewart, LK, Timmerman, KL, and Coen, PM. 2006. Physical activity status, but not age, influences inflammatory biomarkers and toll-like receptor 4, *Journal of Gerontology Series A-Biological Sciences & Medical Sciences*, **61(4)**, 388–393.
105. Mohammed, SI, Dhawan, D, Abraham, S, Snyder, PW, Waters, DJ, Craig, BA, Lu, M, Wu, L, Zheng, R, Stewart, J, and Knapp, DW. 2006. Cyclooxygenase

- inhibitors in urinary bladder cancer: in vitro and in vivo effects, *Molecular Cancer Therapeutics*, **5**(2), 329-336.
106. Wang^g, C, Xie, J, and Craig, BA. 2006. Context dependent models for discovery of transcription factor binding sites. *Statistical Methodology*, **3**(1), 55-68.
 107. Cao^g, D, Craig, BA, and Doerge, RW. 2005. Introduction to Bayesian Quantitative Trait Mapping for Polyploids. *Proceedings of the 2004 Kansas State University Conference on Applied Statistics in Agriculture*, G.A. Milliken ed., Manhattan, KS : Department of Statistics, 172-186.
 108. Vitek^g, O, Bailey-Kellogg, C, Craig, BA, Kuliniewicz, P, and Vitek, J. Reconsidering Complete Search Algorithms for Protein Backbone NMR Assignment, *Bioinformatics*, **21**, ii230-ii236.
 109. Annis^g, DH and Craig, BA. 2005. The Effect of Inter-Laboratory Variability on Antimicrobial Susceptibility Determination. *Diagnostic Medicine and Infectious Diseases*, 53(1), 61-64.
 110. Annis^g, DH and Craig, BA. 2005. Hybrid Paired Comparison Analysis, with Applications to the Ranking of College Football Teams, *Journal of Quantitative Analysis in Sports*, **1**(1), Article 3.
 111. van der Walde, K, Brockenbrough, JR, Craig BA, and Hillberry, BM. 2005. Multiple fatigue crack growth in pre-corroded 2024-T3 aluminum. *International Journal of Fatigue*, **27**, 1509-1518.
 112. Cao^g, D, Craig, BA, and Doerge, RW. 2005. A model selection-based based interval-mapping method for autopolyploids. *Genetics*, **169**(4), 2371-2382.
 113. Stewart, LK, Flynn, MG, Campbell, WW, Craig, BA, Robinson, JP, McFarlin, BK, Timmerman, KL, Coen, PM, Felker, J, and Talbert, E. 2005. Influence of exercise training and age on CD14+ cell-surface expression of toll-like receptor 2 and 4, *Brain, Behavior, and Immunity*, **19**, 389-397.
 114. Craig, BA. 2005. Discussion of "Semilinear high-dimensional model for normalization of microarray data: a theoretical analysis and partial consistency", *Journal of the American Statistical Association*, **100**, 799-800.
 115. Annis^g, DH and Craig, BA. 2005. Statistical properties and inference of the antimicrobial MIC test. *Statistics in Medicine*, **24**(23), 3631-3644.
 116. Sharpe, PS, Hillberry, BM, and Craig, BA. 2004. Fatigue life variability prediction based on crack forming inclusions in a high strength alloy steel, *Journal of ASTM International*, **1**(8), 1-14.
 117. Craig, BA and Reynolds III, JE. 2004. Determination of Manatee Population Trends using a Bayesian approach with temperature-adjusted aerial survey data, *Marine Mammal Science*, **20**, 386-400.

118. Vitek^g, O, Vitek, J, Craig, BA, and Bailey-Kellogg, C. 2004. Model-Based Assignment and Inference of Protein Backbone Nuclear Magnetic Resonances, *Statistical Applications in Genetics and Molecular Biology*, **3(1)**, Article 6.
119. Gruenberg, KM, Craig, BA, Hillberry, BM, Bucci, RJ, and Hinkle, AJ. 2004. Predicting fatigue life of pre-corroded 2024-T3 aluminum from breaking load tests. *International Journal of Fatigue*, **26(6)**, 615-627.
120. Gruenberg, KM, Craig, BA, Hillberry, BM, Bucci, RJ, and Hinkle, AJ. 2004. Predicting fatigue life of pre-corroded 2024-T3 aluminum. *International Journal of Fatigue*, **26(6)**, 629-640.
121. Gbur, EE, Craig, BA, and Zhang, H. 2004. A Simulation study of exponential semivariogram estimation, *Proceedings of the Kansas State University Conference on Applied Statistics in Agriculture*, G.A. Milliken ed., Manhattan, KS : Department of Statistics, 121 - 136.
122. Cao^g, D, Craig, BA, and Doerge, RW. 2004. Interval Mapping for Autopolyploids, *Proceedings of the Kansas State University Conference on Applied Statistics in Agriculture*, G.A. Milliken ed., Manhattan, KS : Department of Statistics, 60-69.
123. DeWoody, Y, Swihart, RK, Craig, BA, and Goheen, JR. 2003. Diversity and Stability in Communities Structured by Asymmetric Resource Allocation, *American Naturalist*, **162(4)**, 514-527.
124. Craig, BA, Gu, W, and Feng, Z. 2003. Developing an integrated model of land-use/land-cover change. In R. K. Swihart and J. E. Moore, eds. *Conserving biodiversity in agricultural landscapes: model-based planning tools*. Purdue University Press, West Lafayette, Indiana, 139-150.
125. Craig, BA, Black, MA, and Doerge, RW. 2003. Gene Expression Data: The technology and statistical analysis, *Journal of Agricultural, Biological, and Environmental Statistics (JABES)*, **8(1)**, 1-28.
126. Fleet, JC, Wang, L, Vitek^g, O, Craig, BA, and Edenberg, HJ. 2003. Gene expression profiling of Caco-2 BBe cells suggests a role for specific signaling pathways during intestinal differentiation *Physiol. Genomics*, **13(1)**: 57-68..
127. Mohammed, SI, Craig, BA, Mutsaers, AJ, Glickman, NW, Snyder, PW, deGortari, AE, Schlittler, DL, Coffman, KT, Bonney, PL, and Knapp, DW. 2003. Effects of the cyclooxygenase inhibitor, piroxicam, in combination with chemotherapy on tumor response, apoptosis, and angiogenesis in a canine model of human invasive urinary bladder cancer, *Molecular Cancer Therapeutics*, **2(2)**: 183-188.
128. Schinckel, AP and Craig, BA. 2002. Evaluation of Alternative Nonlinear Mixed Effects Models of Swine Growth, *The Professional Animal Scientist*, **18**, 219-226.

129. Gross, K, Craig, BA, and Hutchison, WD. 2002. Bayesian estimation of a demographic matrix model from stage-frequency data, *Ecology*, **83**(12), 3285-3298.
130. Black, MA and Craig, BA. 2002. Estimating disease prevalence in the absence of a gold standard, *Statistics in Medicine*, **21**(18), 2653-2669.
131. Craig, BA, Vitek^g, O, Black, MA, Tanurdzic, M, and Doerge, RW. 2002. Designing Microarrays, *Proceedings of the Kansas State University Conference on Applied Statistics in Agriculture*, G.A. Milliken ed., Manhattan, KS : Department of Statistics, 159-182.
132. Mohammed, SI, Bennett, PF, Glickman, NW, Mutsaers, AJ, Snyder, PW, Craig, BA, Widmer, WR, DeGortari, AE, Bonney, PI, and Knapp, DW. 2002. Effect of the cyclooxygenase inhibitor, piroxicam, on tumor response, apoptosis, and angiogenesis in canine model of human invasive urinary bladder cancer, *Cancer Research*, **62**(2), 356-358.
133. Sendi, PP, Palmer, AJ, Hauri, P, Craig, BA, and Horber, FF. 2002. Modeling the impact of adjustable gastric banding on survival in patients with morbid obesity, *Obesity Research*, **10**, 291-295.
134. Craig, BA and Sendi, PP. 2002. Estimation and Uncertainty of the transition matrix of a homogeneous Markov chain, *Health Economics*, **11**(1), 33-42.
135. Craig, BA and Black, MA. 2001. The incremental cost-effectiveness ratio and the incremental net health benefit: Two sides of the same coin, *Pharmacoeconomics & Outcomes Research*, **1**(1), 37-46.
136. Laz, PJ, Hillberry, BM, and Craig, BA. 2001. A probabilistic total fatigue life model incorporating stress level, *International Journal of Fatigue*, **23**, 119-127.
137. Craig, BA and Schinckel, AP. 2001. Nonlinear mixed effects model for swine growth, *The Professional Animal Scientist*, **17**(4), 256-260.
138. Doerge, RW and Craig, BA. 2001. An introduction to model selection for quantitative trait locus analysis in polyploids in *Proceedings of the Kansas State University Conference on Applied Statistics in Agriculture*, G.A. Milliken ed., Manhattan : Department of Statistics, 13-27.
139. Doerge, RW and Craig, BA. 2000. Model selection for quantitative trait locus analysis in polyploids. *Proceedings of the National Academy of Science*, **97**(14), 7951-7956.
140. Craig, BA. 2000. Modeling Approach to Breakpoint Determination, *Diagnostic Microbiology and Infectious Disease*, **36**(3), 193-202.
141. Craig, BA, Black, MA, and Sendi, PP. 2000. Uncertainty in decision models analyzing cost effectiveness: A comment. *Medical Decision Making*, **20**(1), 135-136.

142. Sendi, PP, Craig, BA, Meier, G, Pfluger, D, Gafni, A, Opravil, M, Battegay, M, and Bucher, HC. 1999. Cost effectiveness of azithromycin for preventing *Mycobacterium avium* complex infection in HIV-positive patients in the era of highly active antiretroviral, *Journal of Antimicrobial Chemotherapy*, **44**, 811-817.
143. Eberts, C, Eberts R, and Craig, BA. 1999. Interactive Remedial Statistics Learning Modules for the Internet, *Proceedings of the Human Factors and Ergonomics Society*, **43**, 530-534.
144. Sendi, PP, Bucher, HC, Harr, T, Craig, BA, Schwietert, M, Pfluger, D, Gafni, A, and Battegay, M. 1999. Cost effectiveness of highly active antiretroviral therapy in HIV infected patients. *AIDS*, **13**, 1115-1122.
145. Gruenberg, KM, Craig, BA, and Hillberry, BM. 1999. A probabilistic method for predicting the variability in fatigue behavior of 7075-T6 aluminum. *Journal of the American Institute of Aeronautics and Astronautics*, **37**, 1304-1310.
146. Craig, BA, Fryback, DG, Klein, R, and Klein, BEK. 1999. A Bayesian approach to modeling the natural history of a chronic condition from observations with intervention. *Statistics in Medicine*, **18**, 1355-1371.
147. Sendi, PP, Craig, BA, Pfluger, D, Gafni, A, and Bucher, HC. 1999. Systematic validation of disease models for pharmacoeconomic evaluations. *Journal of Evaluation in Clinical Practice*, **5**, 283-295.
148. Sendi, PP, Bucher, HC, Craig, BA, Pfluger D, and Battegay M. 1999. Estimating AIDS-free survival in a severely immunosuppressed asymptomatic HIV-infected population in the era of antiretroviral triple combination therapy. *Journal of Acquired Immune Deficiency Syndromes and Human Retrovirology*, **20**, 376-381.
149. Burr, AF, Craig, BA, Chung, C-G, So, T-S H, Deveau, TJ, and Shirer, DL. 1999. Programs for Statistics and Data Analysis. *Computing in Science and Engineering*, **1(1)**, 17-21.
150. Craig, BA, Newton, MA, Garrott, RA, Reynolds III, JE, and Wilcox, JR. 1997. Analysis of aerial survey data on Florida Manatee using Markov chain Monte Carlo. *Biometrics*, **53(2)**, 129-146.
151. Craig, BA and Newton, MA. 1997. Modeling the history of diabetic retinopathy in *Case Studies in Bayesian Statistics III*, C. Gatsonis et al. eds, New York: Springer-Verlag, 305-323.
152. Mehta, MP, Noyes, WR, Craig, BA, Lamond, JP, Auchter, RM, French, MC, Johnson, MN, Levin, AB, Badie, B, Robins, HI, and Kinsella, TK. 1997. A cost-effectiveness and cost-utility analysis of radiosurgery versus resection for single brain metastases. *International Journal of Radiation Oncology, Biology, Physics*, **39**, 445-454.

153. Noyes, WR, Mulcahy, RT, Craig BA, and Kinsella TJ. 1996. The effect of a pure anti-estrogen, ICI 182,780, on the in vitro radiosensitivity of MCF-7 breast carcinoma cells. *Radiation Oncology Investigations*, **3**, 232-237.
154. Weigel, KA, Craig, BA, Bidwell, TR, and Bates, DM. 1992. Comparisons of alternative diphasic curve models under bovine somatotropin administration, *Journal of Dairy Science*, **75**, 580-589.

Non-refereed Publications

1. Hass^g, Z, McCabe^u, S, and Craig, BA. 2015. Easy to criticize, harder to verify: 4th and goal in post-2011 NFL overtime, *Chance*, **28(2)**, 54-57.
2. Black, MA, Craig, BA, Tanurdzic, M, and Doerge, RW. 2001. A Bayesian approach to the analysis of cDNA microarray data, *Interface 2001 Proceedings : Computing Science and Statistics*, 33.
3. NCCLS. 2001. Development of In Vitro Susceptibility Testing Criteria and Quality Control Parameters; Approved Guidelines – Second Edition. NCCLS document M23-A2 [ISBN 1-56238-430-9]. NCCLS, 940 West Valley Road, Suite 1400, Wayne, Pennsylvania 19087-1898, USA
4. Vitek^g, O, Craig, BA, and Becker, R. 2000. Statistical sampling plan for monitoring the quality of seed lots. TAP report No. TAP0011117. 1284 Civil Engineering Building, Room G-175, West Lafayette, Indiana 47907-1284, USA.
5. Vitek^g, O, Craig, BA, and Becker, R. 2000. Statistical sampling plan for monitoring quality in an egg breaking plant. TAP report No. TAP001030. 1284 Civil Engineering Building, Room G-175, West Lafayette, Indiana 47907-1284, USA.
6. Craig, BA and Reynolds, JE. 2000. Trends in manatee abundance at selected warm water sites, in U.S. Fish and Wildlife Service, *Florida Manatees and Warm Water: Proceedings of the Warm-Water Workshop*, Jupiter, FL, Aug 24-25, 1999.
7. Black, MA, Jones, RD, Carroll, GJ, and Craig, BA. 1999. A Bayesian approach to the assessment of diagnostic test accuracy in the absence of a gold standard. *American Statistical Association, Proceedings of the Section on Statistics and Epidemiology*, 94-98.
8. Laz, PJ, Craig, BA, Rohrbaugh, SM, and Hillberry, BM. 1999. The development of a total fatigue life approach accounting for nucleation and propagation. *Fatigue '99 : Proceedings of the Seventh International Fatigue Congress*, **2**, 833-838.
9. Hillberry, BM, Laz, PJ, Gruenberg, KM, Debartolo EA, and Craig, BA. 1999. Inherent material behavior and widespread fatigue. *Fatigue '99 : Proceedings of the Seventh International Fatigue Congress*, **4**, 2539-2544.

10. Noyes WR, Auchter RM, Craig, BA, French, MC, Johnson, MN, Lamond, JP, Levin, AB, Kinsella, TJ, and Mehta, MP. (1996) Cost analysis of radiosurgery versus resection for single brain metastases, *in* D. Kondziolka (ed), *Radiosurgery 1995*, S. Karger Publishers, pp. 172-179.

Books

1. Moore, DS, McCabe, GP, and Craig, BA. 2021. Introduction to the Practice of Statistics (10th edition), W. H. Freeman and Company.
2. Alwan, LC, Craig, BA, and McCabe, GP. 2019. The Practice of Statistics for Business and Economics (5th edition), W. H. Freeman and Company.
3. Moore, DS, McCabe, GP, and Craig, BA. 2017. Introduction to the Practice of Statistics (9th edition), W. H. Freeman and Company.
4. Moore, DS, McCabe, GP, Alwan, LC, and Craig, BA. 2015. The Practice of Statistics for Business and Economics (4th edition), W. H. Freeman and Company.
5. Moore, DS, McCabe, GP, and Craig, BA. 2014. Introduction to the Practice of Statistics (8th edition), W. H. Freeman and Company.
6. Moore, DS, McCabe, GP, and Craig, BA. 2011. Introduction to the Practice of Statistics (7th edition), W. H. Freeman and Company.
7. Moore, DS, McCabe, GP, Alwan, LC, Craig, BA, and Duckworth, WM. 2010. The Practice of Statistics for Business and Economics (3rd edition), W. H. Freeman and Company.
8. Moore, DS, McCabe, GP, and Craig, BA. 2008. Introduction to the Practice of Statistics (6th edition), W. H. Freeman and Company.

Presentations:

Invited Talks

1. Craig, BA. Government Research on Predictive Analytics and Uncertainty Quantification (discussant), *Joint Statistical Meetings*, Nashville, TN, August 4, 2025.
2. Craig, BA, Sabbaghi, A, and Colver, T. Democratizing Statistical Consulting via Large Language Models: The Benefits and Challenges to an Academic Statistical Consulting Service, *Data Science, Statistics & Visualisation (DSSV) 2025*, Skukuza Rest Camp, Kruger National Park, South Africa, July 7, 2025.
3. Craig, BA, Sabbaghi, A, and Colver, T. Democratizing Statistical Consulting via Large Language Models: The Benefits and Challenges to an Academic Statistical Consulting Service, *North-West University / Purdue Conference*, Potchefstroom, South Africa, July 4, 2025.

4. Craig, BA and Gerber EAE. Residuals and diagnostics for multinomial regression models, *NCCC-170 Annual Meeting*, University of Idaho, June 6, 2025.
5. Craig, BA. Is three a crowd? Development of a triple-system estimator for the U.S. Census of Agriculture, *Statistics, Agriculture and the Environment*, University of Minnesota, May 16, 2025.
6. Bello, N, Craig, BA, Stroup, W, Palmer, D, Macchiavelli, R, and Read, Q. Best practices for GLMM implementation, *Conference on Applied Statistics in Agriculture and Natural Resources*, Gainesville, FL, May 14, 2025. (panel)
7. Craig, BA. Improvements in the Translation of Statistics, Thereby Achieving Increased Clinical Trial Participation, *D.R.I.V.E Initiative, 22nd Annual Indy Hematology Review*, Indianapolis, IN, March 7, 2025.
8. Craig, BA. The 2022 Ag Census: From methodological development to implementation, *Joint Statistical Meetings*, Portland, OR, August 4, 2024
9. Craig, BA, Love, K, Osborne, J, and Eisenbeisz, E. What Software, For What Test, and Why?, *Conference on Statistical Practice*, New Orleans, Louisiana, February 28, 2024
10. Craig, BA, Charu, V, Eisenbeisz, E, and Levine, R. What Software, For What Test, and Why?, *Joint Statistical Meetings*, Toronto, Canada, August 7, 2023
11. Craig, BA. I Have a Quick Question For You, Department of Statistics, University of Wisconsin-Madison, March 2, 2023.
12. Craig, BA. Diagnostic Test Evaluation in the Absence of a Gold Standard, *NCCC-170 Annual Meeting*, Oklahoma State University, June 16, 2022.
13. Craig, BA, Griffith, E, Hanlon, A, Peskoe S., and Van Mullekom, J. The Changing Landscape of Academic Statistical Collaboration, *International Conference on Advances in Interdisciplinary Statistics and Combinatorics*, The University of North Carolina at Greensboro, Oct 10, 2021. (panel)
14. Craig, BA, Sun, H., and Zhang, L. Distance Weighted Discrimination Approach for Precision Medicine, *9th International Purdue Symposium on Statistics*, Purdue University, June 8th, 2018.
15. Craig, BA. What Metrics Can Be Used to Measure Success of Centers?, *Joint Statistical Meetings*, Baltimore, Maryland, July 31, 2017.
16. Craig, BA. Diffusion test calibration: An application of Bayesian hierarchical modeling, Center for Statistical Science, Tsinghua University, Beijing, China, July 24, 2017.
17. Craig, BA, Hurwitz, S, Sampson, PD, Smith, HS, and Wiest, M. Teaching a Statistical Consulting Course, *Joint Statistical Meetings*, Chicago, Illinois, Aug 2, 2016. (Panel)

18. Hass^g, Z and Craig, BA. Developing pork lean mass prediction equations in the presence of proportional measurement error: Replacing prior knowledge with technical replicates *28th Annual Applied Statistics in Agriculture Conference*, Manhattan, Kansas, April 29, 2016.
19. Craig, BA, Chen^g, N, and Wijayawardana, SR. Assessing Inter-rater Agreement of Immunohistochemistry Scores, University of Texas Medical Branch at Galveston, April 19, 2016.
20. Craig, BA. Disk Diffusion Breakpoint Determination Using an Errors-in-Variables Model Approach, University of Texas Medical Branch at Galveston, April 19, 2016.
21. Craig, BA, Holloman, C, Clayton, M, and Wiest, M. The Non-Technical Skills Needed to Be an Effective Statistical Consultant, *Joint Statistical Meetings*, Seattle, Washington, Aug 12, 2015. (Panel)
22. Craig, BA, Chen^g, N, and Wijayawardana, SR. Assessing Inter-observer Agreement for multivariate IHC scoring data, *NCCC-170 Annual Meeting*, University of Puerto Rico Mayaguez, June 25, 2015.
23. Craig, BA. Assessing inter-observer agreement for multivariate IHC scoring data, Department of Biostatistics, Indiana University, November 21, 2014.
24. Craig, BA. Consensus development for public health guidelines: a critical approach, *Women's Global Health Institute High Tea Symposium*, Purdue University, November 7, 2014.
25. Craig, BA. Assessing inter-observer agreement for multivariate IHC scoring data, Department of Statistics, University of Georgia, September 4, 2014.
26. Hass^g, Z and Craig, BA. Developing prediction equations for carcass lean mass in the presence of proportional measurement error *26th Annual Applied Statistics in Agriculture Conference*, Manhattan, Kansas, April 29, 2014.
27. Craig, BA. Sample size/Power Calculations for generalized linear mixed models, *Weekly Clinical Colloquia*, Department of Psychological Sciences, Purdue University, November 15, 2013.
28. Craig, BA. Assessing inter-observer agreement for multivariate observations. *NCCC-170 Annual meeting*, Lansing, Michigan, June 27, 2013.
29. Craig, BA. and DePalma^g, G. Alternative Zone Breakpoint Determination Methods. *CLSI Subcommittee on Antimicrobial Susceptibility Testing*, Tampa, Florida, January 8, 2013.
30. Craig, BA. *Disk Diffusion Breakpoint Determination Using an Error-in-variables Model Approach*, Vanderbilt University, June 6, 2012.
31. Craig, BA. and DePalma^g, G. Alternative Zone Breakpoint Determination Methods. *CLSI Subcommittee on Antimicrobial Susceptibility Testing*, Tempe, Arizona, January 13, 2012.

32. Craig, BA. Introduction to Generalized Linear Mixed Models (GLMMs): A case study, Montgomery Lecture Series, Culver Academies, May 24, 2011.
33. Craig, BA. Using Bayesian Hierarchical Modeling in the Life Sciences, Montgomery Lecture Series, Culver Academies, May 24, 2011.
34. Craig, BA. Calibrating two susceptibility tests without a gold standard, University of Otago, Dunedin, New Zealand, March 18, 2010.
35. Craig, B.A. Drawing inference from observational studies using hierarchical modeling, *Annual Fall RCHE conference*, Purdue University, Sept 18, 2008.
36. Craig, BA. Modeling the regeneration of grass in golfing divots using GLMMs, *Joint Statistical Meetings*, Denver, CO, August 3, 2008.
37. Craig, BA. Bayesian model selection and trend analysis of the Florida manatee via aerial surveys, *ESA/SER Joint Meeting*, San Jose, CA, August 5, 2007.
38. Craig, BA. Overarching Issues in Risk Analysis : Food Safety, *Joint Statistical Meetings*, Salt Lake City, UT, July 31, 2007.
39. Craig, BA. Bayesian trend analysis of the Florida manatee along the Atlantic Coast via aerial surveys, *ENAR Regional Meeting*, Atlanta, GA, March 12, 2007.
40. Craig, BA. and Liu^g, Y. Incorporating Time-dependent Covariates in the Cox Proportional Hazards Model, *Department of Econometrics Colloquium*, University of Geneva, Switzerland, June 9, 2006.
41. Mosier, NS and Craig, BA. Predicting Cell Capture from Dilute Samples for Microfluidic Biosensors, *NISS Workshop: Food Safety*, Iowa State University, October 28, 2005.
42. Craig, BA and Liu^g, Y. Incorporating Time-dependent Covariates in the Cox Proportional Hazards Model, *Department of Statistics Colloquium*, Purdue University, October 6, 2005.
43. Craig, BA. Critically Assessing the Statistical Methods Section: Common Issues to Consider When Reading Published Papers, *Purdue Department of Animal Science Seminar*, Purdue University, September 14, 2005.
44. Craig, BA and Becker, R. Metrics used to evaluate the Purdue University's Statistical Consulting Service, *Joint Statistical Meetings*, Minneapolis, MN, August 7, 2005.
45. Cao^g, D, Craig, BA, and Doerge, RW. Bayesian Quantitative Trait Mapping for Autopolyploids, *16th Annual Applied Statistics in Agriculture Conference*, Manhattan, Kansas, April 27, 2004.
46. Craig, BA, Gbur, EE, and Zhang, H. Small Sample Exponential Semivariogram Estimation, *Department of Statistics Colloquium*, Purdue University, November 20, 2003.

47. Craig, BA, Black, MA, and Doerge, RW. Gene Expression Data: The Technology and Statistical Analysis, *Joint Statistical Meetings*, San Francisco, CA, August 4, 2003.
48. Craig, BA. Design and Inference for Microarray Gene Expression Experiments, *International Symposium on Animal Functional Genomics*, East Lansing, Michigan, May 11th, 2003.
49. Craig, BA., Gbur, EE, and Zhang, H. Estimating the Semivariogram? *15th Annual Applied Statistics in Agriculture Conference*, Manhattan, Kansas, April 29, 2003.
50. Cao^g, D, Craig, BA, and Doerge, RW. Interval Mapping for Autopolyploid, *15th Annual Applied Statistics in Agriculture Conference*, Manhattan, Kansas, April 29, 2003.
51. Craig, BA. Calibrating two antimicrobial susceptibility tests without a gold standard, *Los Alamos National Laboratory, Statistics Division*, Los Alamos, NM, April 15, 2003.
52. Craig, BA. and Annis^g, D. Troubles in testing: Accuracy of testing and what are the implications, *Interscience Conference on Antimicrobial Agents and Chemotherapy*, San Diego, CA, September 28, 2002.
53. Craig, BA and Reynolds III, JE. Determination of manatee population trends using a Bayesian approach with temperature-adjusted aerial survey data *The Manatee Population Ecology and Management Workshop*, Gainesville, FL, April 2, 2002.
54. Craig, BA. Calibrating two susceptibility tests without a gold standard, *Department of Statistics Colloquium*, Purdue University, November 8, 2001.
55. Craig, BA. Calibrating two susceptibility tests without a gold standard, *Eli Lilly Statistics Seminar*, Indianapolis, Indiana, June 13, 2001.
56. Craig, BA., Vitek^g, O., Black, MA, Tanurdzic, M, and Doerge, RW. Designing microarray experiments: Chips, dips, flips, and skips, *13th Annual Applied Statistics in Agriculture Conference*, Manhattan, Kansas, April 30, 2001.
57. Craig, BA. The Use of Linear and Nonlinear Mixed Models in Animal Science. *Department of Animal Science Seminar*, Purdue University, February 22, 2001.
58. Craig, BA. and Vitek^g, O. Chips, Dips, Flips, and Skips: Experimental Design of Microarrays At Its Best, *Purdue University Working Group on Microarrays*, Purdue University, January 23, 2001.
59. Craig, BA and Black, MA. Estimating Disease Prevalence in the Absence of a Gold Standard, *Central Indiana Chapter of the ASA*, Eli Lilly & Co., November 14, 2000.

60. Craig, BA and Reynolds III, JE. Assessing the Trend of the Florida manatee via aerial surveys: 1982-Present. *Mathematics Department*, St. Olaf University, November 2, 2000.
61. Craig, BA and Black, MA. Estimating Disease Prevalence in the Absence of a Gold Standard, *Department of Statistics Colloquium*, Purdue University, August 31, 2000.
62. Craig, BA and Doerge, RW. An Introduction to Model Selection for Quantitative Trait Locus Analysis in Polyploids, *Kansas State University Conference on Applied Statistics in Agriculture*, Manhattan, KS, May 1st, 2000.
63. Craig, BA and Black, MA. Modeling the natural progression of diabetic retinopathy from observations with intervention (WESDR younger-onset cohort). *Department of Ophthalmology*, University of Wisconsin-Madison, March 15, 2000.
64. Craig, BA and Reynolds III, JE. Assessing the Trend of the Florida manatee via aerial surveys: 1982-Present. *Mathematics Department*, Lawrence University, February 3, 2000.
65. Craig, BA and Reynolds III, JE. Assessing the Trend of the Florida manatee via aerial surveys: 1982-Present, *Mathematics Department*, Beloit College, February 7, 2000.
66. Craig, BA and Reynolds III, JE. Assessing the Trend of the Florida manatee via aerial surveys: 1982-Present, *Mathematics Department*, University of Wisconsin-Milwaukee, February 4, 2000.
67. Craig, BA. Antibiotic Susceptibility Testing and Breakpoints: Simulations and Errors. *Interscience Conference on Antimicrobial Agents and Chemotherapy*, San Francisco, CA, September 24, 1999.
68. Craig, BA. and Reynolds III, JE. Trends in manatee abundance at selected warm water sites, *Warm-water Workshop - U.S. Fish and Wildlife*, Jupiter, FL, August 24, 1999.
69. Craig, BA. A Bayesian approach to susceptibility testing. *NCCLS Subcommittee on Antimicrobial Susceptibility Testing*, Reston, Virginia, June 13, 1999.
70. Craig, BA. Drug dilution and disk diffusion : Calibrating the two susceptibility tests, *Biostat/Stat Seminar*, Purdue University, March, 1999.
71. Craig, BA. and Doerge, RW. Mapping of Quantitative Trait Loci in Polyploids, *Department of Statistics Colloquium*, Purdue University, March, 1999.
72. Craig, BA and Doerge, RW. Mapping of Quantitative Trait Loci in Polyploids, *Statistics Department*, University of Wisconsin-Madison, March, 1999.
73. Craig, BA. Susceptibility testing: A simulation approach. *NCCLS Subcommittee on Antimicrobial Susceptibility Testing*, Tampa, Florida, January 10, 1999.

74. Craig, BA and Reynolds III, JE. Assessing the Trend of the Florida manatee via aerial surveys: 1982-Present, *Mathematics Department*, University of Nebraska-Lincoln, October, 1998.
75. Craig, BA. Drug Dilution vs Disk Diffusion: Calibrating the two Susceptibility Tests, *Mathematics Department*, University of Nebraska-Lincoln, October, 1998.
76. Craig, BA and Doerge, RW. Mapping of quantitative trait loci in polyploids. *6th Purdue International Symposium on Statistics*, West Lafayette, Indiana, June 22, 1998.
77. Craig, BA. A Bayesian approach to susceptibility testing. *NCCLS Subcommittee on Antimicrobial Susceptibility Testing*, Reston, Virginia, June 7, 1998.
78. Craig, BA. and Doerge, RW. Mapping of Quantitative Trait Loci in Polyploids. *Biostat/Stat Genetics Seminar*, Statistics Department, Purdue University, March, 1998.
79. Craig, BA. Inference from Population Dynamics Models. *Ecolunch Seminar*, Department of Biological Sciences, Purdue University, October, 1997.
80. Craig, BA. Assessing the trend of the Florida manatee - Selecting from among several models. *Joint Statistical Meetings*, Anaheim, California, August 12, 1997.
81. McCabe, GP, Hillberry, BM, Grandt, AF, and Craig, BA. Uses of statistical models for fatigue crack growth. *Joint Statistical Meetings*, Anaheim, California, August 11, 1997.
82. Craig, BA. Drug Dilution and Disk Diffusion: Calibrating the Two Tests. *Biostat/Stat Genetics Seminar*, Statistics Department, Purdue University, February, 1997.
83. Craig, BA, and Newton, MA. The Contour Slide Update, *Research Seminar*, Statistics Department, Purdue University, October, 1996.
84. Craig, BA. Modeling the History of Diabetic Retinopathy, *Central Indiana Chapter of the ASA*, IUPUI, October 1996.

Invited Short Courses / Workshops

1. Bello, N, Tempelman, R, and Craig, BA. Short Course on Mixed Models, American Dairy Science Association, Milwaukee, WI, June 24-25, 2026.
2. Brouder, S, Cai, C, Craig, BA, Barford, C, and Volenec J. Do It Right: Conducting a Systematic Review with Meta-Analysis, *CANVAS 2025*, Salt Lake City, UT, November 9, 2025.
3. Brouder, S, Cai, C, Craig, BA, Barford, C, and Volenec J. Do It Right: Conducting a Systematic Review with Meta-Analysis, *ASA-CSSA-SSSA International Annual Meeting*, San Antonio, TX, November 10, 2024.

4. Bello, N, Tempelman, R, and Craig, BA. Short Course on Mixed Models, American Dairy Science Association, Ottawa, Canada, June 28-29, 2023.
5. Bello, N, Tempelman, R, and Craig, BA. Short Course on Mixed Models, *American Dairy Science Association*, Virtual Annual Meeting, July 14, 2021.
6. Bello, N, Tempelman, R, and Craig, BA. Short Course on Mixed Models, *Federation of Animal Science Societies*, Cincinnati, OH, June 26-27, 2019.
7. Craig, BA. An Overview of Linear Mixed Models, *9th International Symposium on Statistics*, Purdue University, June 5, 2018.
8. Craig, BA and Vitek O. Statistical design of experiments and linear mixed models, and their applications in the context of bioinformatics, *8th International Symposium on Statistics*, June 20-21, 2012.
9. Bello, N, Tempelman, R, and Craig, BA. Short Course on Mixed Models, *Federation of Animal Science Societies*, New Orleans, LA, July 13-14, 2011.
10. Douglas, L, Tempelman, R, and Craig, BA. Short Course on Mixed Models, *Federation of Animal Science Societies*, Montreal, QB, Canada, July 11-13, 2009.
11. Douglas, L, Tempelman, R, and Craig, BA. Short Course on Mixed Models, *Federation of Animal Science Societies*, Indianapolis, Indiana, July 10-11, 2008.
12. Craig, BA and Clayton, MK. Short Course on Spatial Statistics in Agriculture, *Joint American and Canadian Phytopathological Societies Meeting*, Quebec, QB, Canada, July 29, 2006.
13. Douglas, L, Tempelman, R, and Craig, BA. Short Course on Mixed Models, *Joint Animal Science Societies Meeting*, St. Louis, MO, July 28-29, 2004.
14. Grandt, Jr., AF, Hillberry, BM, Sun, CT, Farris, TN, and Craig, BA. Course on Advanced Damage Tolerance Analysis, *Rolls-Royce*, Indianapolis, IN, July 2004.
15. Doerge, RW and Craig, BA. Microarray Tutorial, *Seventh Purdue International Symposium on Statistics*, West Lafayette, IN, June 19, 2003.
16. Douglas, L, Tempelman, R, and Craig, BA. Short Course on Mixed Models, *Joint American and Canadian Animal Science Societies and the American Dairy Science Society Meeting*, Quebec City, QB, Canada, July 24-25, 2002.
17. Douglas, L, Tempelman, R, and Craig, BA. Short Course on Mixed Models, *Animal, Dairy and Poultry Professional Societies*, Indianapolis, IN, July 27-28, 2001.
18. Doerge, RW and Craig, BA. An Introduction to Statistical Issues for Microarray Data, *Center for Devices and Radiological Health, FDA*, Washington, DC, July 30, 2001.

Contributed Talks

1. Benecha, H, Sartore, L, Yoon, G, Craig, BA, Abreu, DA, and Young, LJ. Extending the Dual-system Estimation for the Census of Agriculture, *Joint Statistical Meetings*, Washington DC, August 9, 2022.
2. Yu^g, B, Craig, BA, and Zhu, M. A Mixture of Mixed Logistic Regression Models for Determining Optimal Dynamic Treatment Regimes, *Joint Statistical Meetings*, Baltimore, MD, July 30, 2017.
3. Craig, BA, Chen^g, N, and Wijayawardana, SR. Assessing Inter-rater Agreement of Immunohistochemistry Scores, *28th International Biometric Conference*, Victoria, Canada, July 12th, 2016.
4. DePalma^g, G and Craig, BA. Disk Diffusion Breakpoint Determination Using a Bayesian Nonparametric Variation of the Errors-in-Variables Model, *IMS/ENAR Eastern Regional Meeting*, Orlanda FL, March 12, 2013.
5. Mehta^g, SS, Tokdar, ST, Craig, BA, and Ghosh, JK. Bayesian Sufficient Dimension Reduction in Survival Analysis, *IMS/ENAR Eastern Regional Meeting*, Miami FL, March 21, 2011.
6. Xu^g, H and Craig, BA. Probit Latent Class Models for Evaluating Accuracy of Diagnostic Tests with Indeterminate Results, *IMS/ENAR Eastern Regional Meeting*, New Orleans, LA, March 23, 2010.
7. Craig, BA and Qi^g, X. Nonparametric Calibration of Two Common Antimicrobial Susceptibility Tests Based on Interval-Censored Data with Measurement Error, *Joint Statistical Meeting*, Washington DC, August 4, 2009.
8. Daggy^g, JK and Craig, BA. Joint Modeling of Zero-inflated Data using Copulas, *Joint Statistical Meetings*, Washington DC, August 5, 2009.
9. Mehta^g, SS, Tokdar, ST, Ghosh, JK, and Craig, BA. Bayesian Hazard Rate Estimation and Sufficient Dimension Reduction, *Joint Statistical Meetings*, Washington DC, August 4, 2009.
10. Daggy^g, JK and Craig, BA. Joint Modeling of Zero-inflated Data using Copulas, *IMS/ENAR Eastern Regional Meeting*, San Antonio, TX, March 17, 2009.
11. Wang^g, C, Xie, J, and Craig, BA. Context Dependent Models for Discovery of Transcription Factor Binding Sites, *Joint Statistical Meetings*, Seattle, WA, August 9, 2006.
12. Wang^g, C, Xie, J, and Craig, BA. Context Dependent Models for Discovery of Transcription Factor Binding Sites, *IMS/ENAR Eastern Regional Meeting*, Tampa, FL, March 27, 2006.
13. Xu^g, H, Sands, LP, Craig, BA, Eng, C, and Covinsky, K. Determinants of Change in ADL Functioning over Quarterly Intervals in Frail Elders, *The Gerontological Society of America's 58th Annual Scientific Meeting*, New Orleans, LA, November 20, 2005.

14. Vitek^g, O, Bailey-Kellogg, C, Craig, BA, Kuliniewicz, P, and Vitek, J. Reconsidering Complete Search Algorithms for Protein Backbone NMR Assignment, *4th European Conference on Computational Biology*, Madrid, Spain, September 28, 2005.
15. Adams, DE, Smith, MJ, Chaturvedi, A, Rotean, M, Hoffman, C, and Craig, BA. Integrated Prognostic System of Systems Health Management, *2004 Materials and Technology Conference*, New Orleans, LA, September 27, 2004.
16. Annis^g, D and Craig, BA. Hybrid Paired Comparison Analysis, *Joint Statistical Meetings*, Toronto, ON, August 12, 2004.
17. Cao^g, D, Craig, BA, and Doerge, RW. A Model Selection Based Interval Mapping Method for Autopolyploids, *IMS/ENAR Eastern Regional Meeting*, Pittsburgh, Pennsylvania, March 30, 2004.
18. Vitek^g, O, Vitek, J, Craig, BA, and Bailey-Kellogg, C. Model-based assignment and inference of protein backbone nuclear magnetic resonances, *IMS/ENAR Eastern Regional Meeting*, Pittsburgh, Pennsylvania, March 30, 2004.
19. Liu^g, Y and Craig, BA. Modeling the Natural Progression of a Chronic Condition from Observational Data with Time-dependent Covariates, *IMS/ENAR Eastern Regional Meeting*, Pittsburgh, Pennsylvania, March 30, 2004.
20. Liu^g, Y and Craig, BA. Incorporating Time-Dependent Covariates in the Cox Regression Model Using Time-Decaying Covariate Effects, *Joint Statistical Meetings*, San Francisco, CA, August 7, 2003.
21. Annis^g, D and Craig, BA. We're Number One!: A Comparison of Two Common Ranking Models for the 2002-2003 NCAA Division I Football Season, *Joint Statistical Meetings*, San Francisco, CA, August 6, 2003.
22. Vitek^g, O, Vitek, J, Craig, BA, and Bailey-Kellogg, C. Assessment of uncertainty in protein backbone NMR assignments using Bayesian model averaging, *Joint Statistical Meetings*, San Francisco, CA, August 5, 2003.
23. Cao^g, D, Craig, BA, and Doerge, RW. A Maximum Likelihood Based Interval Mapping Method for Autopolyploids, *Joint Statistical Meetings*, , San Francisco, CA, August 3, 2003.
24. Craig, BA, Black, MA, and Doerge, RW. Gene Expression Data: The Technology and Statistical Analysis, *Joint Statistical Meetings*, San Francisco, CA, August 4, 2003.
25. Black, MA, Craig, BA, Deely, J, and Doerge, RW. Bayesian analysis of cDNA microarray data, *Joint Statistical Meetings*, New York, NY, August 14th, 2002.
26. Craig, BA. Calibrating two antimicrobial susceptibility tests without a gold standard, *ENAR*, Arlington, VA, March 20, 2002.

27. Craig, BA and Black, MA. Estimating Disease Prevalence in the Absence of a Gold Standard, *Joint Statistical Meetings*, Atlanta, GA, August 7th, 2001.
28. Craig, BA, Vitek^g, O, Black, MA, Tanurdzic, M, and Doerge, RW. Designing microarray experiments: Chips, dips, flips, and skips, *Joint Statistical Meetings*, Atlanta, GA, August 5th, 2001.
29. Black, MA, Craig, BA, Tanurdzic, M, and Doerge, RW. A Bayesian approach to the analysis of cDNA microarray data, *The 33rd Symposium on the Interface of Computing Science and Statistics*, Costa Mesa, CA, June 13th, 2001.
30. Craig, BA and Levine, RA. Analysis of Aerial Count Data on Florida Manatee: 1982-Present, *ENAR Regional Meeting*, Charlotte, NC, March 26, 2001.
31. Gross, K, Craig, BA, and Hutchison, WD. Bayesian Analysis of a Demographic Matrix Model using Multiple Survey Data, *ENAR Regional Meeting*, Charlotte, NC, March 26, 2001.
32. Craig, BA and Black, MA. Diagnostic Test Performance in the Absence of a Gold Standard, *Annual Midwest Biopharmaceutical Statistics Workshop*, Muncie, Indiana, May 22, 2000.
33. Gross, K and Craig, BA. A Bayesian approach to demographics matrix models, *ENAR Regional Meeting*, Chicago, IL, March 19, 2000.
34. Black, MA, and Craig, BA. A Bayesian performance assessment of correlated multi-category diagnostic tests in the absence of a gold standard, *ENAR Regional Meeting*, Chicago, IL, March 20, 2000.
35. Black, MA and Craig, BA. Modeling the Natural Progression of a Chronic Condition from Observations with Intervention. *Joint Statistical Meetings*, Baltimore, Maryland, August, 1999.
36. Black, MA, Jones, RD, Carroll, GJ, and Craig, BA. A Bayesian approach to the assessment of diagnostic test accuracy in the absence of a gold standard. *Joint Statistical Meetings*, Baltimore, Maryland, August, 1999.
37. Craig, BA. Drug dilution and disk diffusion : Calibrating the two susceptibility tests, *IMS/ENAR Eastern Regional Meeting*, Atlanta, Georgia, March 29, 1999.
38. Laz, PJ, Craig, BA, Rohrbaugh, SM, and Hillberry, BM. The development of a total fatigue life approach accounting for nucleation and propagation. *Fatigue '99 Conference, Beijing, China*.
39. Hillberry, BM, Laz, PJ, Gruenberg, KM, Debartolo EA, and Craig, BA. Inherent material behavior and widespread fatigue. *Fatigue '99 Conference, Beijing, China*.
40. Sendi, PP, Craig, BA, Meier, G, Pfluger, D, Gafni, A, Opravil, M, Battegay, M, Bucher, HC, and the Swiss HIC Cohort Study. Cost effectiveness of preventing Mycobacterium avium complex (MAC) infection in HIV-infected patients in the

era of highly active antiretroviral therapy. *Swiss Society for Internal Medicine, 67th annual meeting*, April 15- 17, 1999, Basel, Switzerland.

41. Gruenberg, KM, Craig, BA, and Hillberry, BM. A probabilistic method for predicting the variability in fatigue behavior of 7075-T6 aluminum. *39th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference*, Long Beach, CA, April 23, 1998.
42. Hillberry, BM, Laz, PJ, Debartolo, EA, Zamber, J, Moshier, MA, Gruenberg, KM, Knight, BD, and Craig, BA. Probabilistic Total Fatigue Life Prediction. *FAA/AFWL Workshop*, Phoenix, AZ, March 4, 1998.
43. Craig, BA. Assessing the trend of the Florida manatee - Selecting from among several models. *Joint Statistical Meetings*, Anaheim, California, August 12, 1997.
44. McCabe, GP, Hillberry, BM, Grandt, AF, and Craig, BA. Uses of statistical models for fatigue crack growth. *Joint Statistical Meetings*, Anaheim, California, August 11, 1997.
45. Craig, BA. Bayesian model selection in population dynamics applications. *IMS Conference of New Researchers in Statistics and Probability*, Laramie, Wyoming, July 25, 1997.
46. Craig, BA and Newton, MA. The contour slide. *IMS/ENAR Eastern Regional Meeting*, Memphis, Tennessee, March 26, 1997.
47. Craig, BA and Newton, MA. Modeling the natural history of diabetic retinopathy. *Joint Statistical Meetings*, Chicago, Illinois, August 7th, 1996.

Posters

1. Craig, BA, Sabbaghi, A, and Ward, MD. Bayesian analysis of partial cladograms resulting from free-sorting tasks, *29th International Biometric Conference*, Barcelona, Spain, July 7th, 2018.
2. Hass^g, Z and Craig, BA. Determining a Plus/Minus Metric for NCAA Women's Volleyball from Incomplete Court Presence Information, *Joint Statistical Meetings*, Chicago, IL, August 1st, 2016.
3. Gallagher^u, P, Craig, BA, Luttermoser, T, and Buczkowski, GA. Paired competition analysis using mixed models. *28th Annual Applied Statistics in Agriculture Conference*, Manhattan, Kansas, April 29, 2016.
4. Gallagher^u, P, Craig, BA, Luttermoser, T, and Buczkowski, GA. Paired competition analysis using mixed models. *Undergraduate Research and Poster Symposium*, Purdue University, April 12, 2016.
5. Yu^g, B, Craig, BA, and Zhu, Y. A mixture of mixed logistic regression models with application to prostate cancer trial, *ENAR 2016 Spring Meeting*, Austin, Texas, March 7th, 2016.

6. Hass^g, Z, Craig, BA, and McCabe^u, S. NFL overtime rule change: Kick the field goal or go for it?, *Joint Statistical Meetings*, Boston, MA, August 5th, 2014.
7. Craig, BA and Knapp^g, SM. Approximate Bayesian computation applied to noninvasive DNA-based population estimation, *27th International Biometric Conference*, Florence, Italy, July 7th, 2014.
8. Mehta^g, SS, Tokdar, ST, Ghosh, JK, and Craig, BA. Bayesian Hazard Rate Estimation and Sufficient Dimension Reduction, *IMS/ENAR Eastern Regional Meeting*, San Antonio, Texas, March 15, 2009.
9. Knapp^g, SM, Craig, BA, and Simonsen, K. Adjusting for Genotyping Error in Non-invasive DNA-based Mark-recapture Population Studies, *ENAR regional meeting*, Atlanta, GA, March 11, 2006.
10. Vitek^g, O, Vitek, J, Craig, BA, and Bailey-Kellogg, C. Assessment of uncertainty in protein backbone NMR assignments using Bayesian model averaging, *Seventh Workshop on Case Studies of Bayesian Statistics*, Carnegie Mellon University, October 20th, 2003.
11. Craig, BA, Gbur, EE, and Zhang, H. Estimating the Semivariogram? *Seventh Purdue International Symposium on Statistics*, West Lafayette, Indiana, June 25, 2003.
12. Vitek^g, O, Vitek, J, Craig, BA, and Bailey-Kellogg, C. Assessment of uncertainty in protein backbone NMR assignments using Bayesian model averaging, *The 26th Midwest Biopharmaceutical Statistics Workshop*, Muncie, Indiana, May 20th, 2003.
13. Cao^g, D, Craig, BA, Doerge, RW. Quantitative Trait Locus Analysis in Polyploids *ENAR Regional Meeting*, Washington DC, March 17, 2002.
14. Cao^g, D, Craig, BA, and Doerge, RW. Quantitative Trait Locus Analysis in Polyploids *14th Annual Applied Statistics in Agriculture Conference*, Manhattan, Kansas, April 28, 2002.
15. Gross, K and Craig, BA. A Bayesian approach to estimating demographic matrices, *Ecological Society of America Annual Meeting*, Snowbird, UT, August 10, 2000.
16. Craig, BA and Black, MA. Diagnostic Test Performance in the Absence of a Gold Standard, *Annual Midwest Biopharmaceutical Statistics Workshop*, Muncie, Indiana, May 22, 2000.
17. Gross, K and Craig, BA. A Bayesian approach to demographics matrix models, *ENAR Regional Meeting*, Chicago, IL, March 19, 2000.
18. Craig, BA and Black, MA. Incorporating transition parameter uncertainty in disease modeling, *ENAR Regional Meeting*, Chicago, IL, March 19, 2000.

19. Craig, BA and Reynolds III, JE. Population Trend of the Florida Manatee: 1982-Present, *13th Biennial Conference on the Biology of Marine Mammals*, Maui, HI, Dec 3, 1999.
20. Black, MA, Craig, BA, Sendi, PP. A Bayesian cost-effectiveness analysis of MAC prophylaxis in the era of HAART, *Annual Midwest Biopharmaceutical Statistics Workshop*, Muncie, Indiana, May 24, 1999.
21. Craig, BA. Drug dilution and disk diffusion : Calibrating the two susceptibility tests, *Annual Midwest Biopharmaceutical Statistics Workshop*, Muncie, Indiana, May 24, 1999.
22. Black, MA and Craig, BA. Modeling the Natural Progression of a Chronic Condition from Observations with Intervention. *IMS/ENAR Eastern Regional Meeting*, Atlanta, Georgia, March 28, 1999.
23. Craig, BA. Drug Dilution vs Drug Diffusion: Calibrating the Two Tests. *Latin American Congress on Probability and Statistics*, Cordoba, Argentina, September 22, 1998.
24. Sendi, PP, Bucher, HC, Craig, BA, Pfluger, D, and Battegay, M. Modeling disease progression in HIV-infected patients without AIDS in the era of antiretroviral combination therapy. *12th World AIDS Conference*, Geneva, Switzerland, July 1, 1998.

Funding (last five years):

1. NIH DHHS 1R01AG086371-01 "Impact of Wearable Biofeedback for the Rehabilitation and Tele-rehabilitation of Neurogenic Dysphagia" Anticipated Dates: 09/01/2024 - 05/31/2029 (Co-I, PI: Malandraki), Total \$3,369,712
2. NIH DHHS 1R01NS126319-01, Teachers College Subcontract "Rehabilitation of Airway Protection in Parkinsons Disease: Comparing In-person and Telehealth Service Delivery Models" Anticipated Dates: 09/01/2022 - 07/31/2027 (Co-I, PI: Troche), Total \$3,036,284
3. NIH NIA R01AG078513, University of Illinois Subcontract "SimulScan: Simultaneous functional and dynamic MRI for evaluating swallowing across age and in neurogenic dysphagia" Anticipated Dates: 04/01/2023 - 03/31/2028 (Co-I, PI: Sutton), Total \$1,737,653
4. USDA NIFA 2022-68015-36279 "Maximizing the impact of nutrition education to meet the dietary quality and food security needs of children and parents" Dates: 01/15/2022 - 01/14/2027 (Co-I, PI: Eicher-Miller), Total \$969,996
5. NIH NHLBI 5R01HL115267-08 "Risk Assessment of Cerebral Aneurysm Growth with 4D flow MRI" Dates: 08/06/2020 - 07/31/2024 (Co-I, PI: Rayz), Total \$2,635,330

6. USDA/NIFA 2019-68017-29939 “FACT: An Innovative Cyber-Framework Integrating Public/Private Data for Evidence-Based Recommendations” Dates: 08/01/2019 - 07/31/2024 (Co-I, PI: Brouder), Total \$1,000,000
7. NIH NIBIB 1R21EB026099-02, “Development and Validation of A Mechanically Compliant Wearable Monitoring System for Swallowing Function and Disorders” Dates: 07/20/2019 - 03/31/2023 (Co-I, PI: Malandraki), Total \$563,357

Involvement in the Graduate Research Program

Major Professor

1. David Annis (2003) : Currently Senior Vice President and Head of Objective Forecasting, Truist
2. Dachuang Cao (Co-advisor, 2004) : Currently Senior Research Scientist at Eli Lilly & Co.
3. Yali Liu (2005) : Currently Director, Biostatistics at Bristol Myers Squibb
4. Chuancai Wang (Co-advisor, 2005) : ???
5. Olga Vitek (Co-advisor, 2005) : Currently Raymond Bradford Bradstreet Professor, Khoury College of Computer Sciences, Northeastern University and Director, Barnett Institute for Chemical and Biological Analysis
6. Huiping Xu (2007) : Currently Associate Professor, Indiana University Department of Biostatistics & Health Data Sciences
7. Shannon Knapp (2007) : Currently Biostatistician, Indiana University Department of Internal Medicine and Adjunct Faculty, Department of Biostatistics and Health Data Science
8. Xiaoli Qi (2008) : Currently at Oracle Corporation
9. Lanqing Hua (2009): ???
10. Joanne Daggy (2009) : Currently Associate Research Professor, Indiana University Department of Biostatistics & Health Data Sciences
11. Sudeshna Paul (2009) : Currently Associate Research Professor, School of Nursing, Emory University
12. Gayla Olbricht (2010): Currently Professor, Missouri University of Science and Technology
13. Shraddha Mehta (2011): Currently Director of Biostatistics at PathAI
14. Eunjung Lim (2011): Currently Associate Professor and Department Chair, Department of Quantitative Health Sciences, University of Hawaii at Manoa
15. Glen DePalma (2013): Currently a Senior Data Scientist at Apple, Inc.

16. Ningning Chen (2015): Currently a Statistician/Algorithm Analyst at Apple, Inc.
17. Zach Hass (2017): Currently Associate Professor, School of Nursing and School of Industrial Engineering, Purdue University
18. Hui (Sophie) Sun (Co-advisor) - PhD (2019), currently a Statistical Consultant at Novartis
19. Yunfan Li (Co-advisor) - PhD (2019), currently Senior Statistical Manager at CSPC Pharmaceutical Group
20. Eric Gerber (2019): Currently an Assistant Teaching Professor, Northeastern University
21. Bing Yu (Co-advisor) - PhD (2021), currently a Staff Software Engineer at Meta
22. Will Eagan (2020): Currently Senior Biostatistician at Vertex
23. Hilda Ibriga (Co-advisor) - PhD (2021): Currently a Research Scientist at Eli Lilly & Co
24. Jeanine Gnan: Anticipated date Fall 2027
25. Austin Hartman: Anticipated date Summer 2027

Other Educational Service

1. Mentor, Undergraduate Research Experience Purdue-Colombia (UREP-C) (2025) - Sofia Contreras Abril
2. Referee, 2019 Purdue DataFest, Purdue University
3. Mentor, Undergraduate Research Experience Purdue-Colombia (UREP-C) (2015) - Yinneth Lorena Leon Velasco
4. Mentor, Undergraduate Research Experience Purdue-Colombia (UREP-C) (2014) - Laura Melissa Cruz Castro
5. Reviewer, 2011-2012 Ludwig Kruhe Fellowship, Graduate School, Purdue University
6. Member, College of Science Committee for Learning and Student Success (CLaSS)
7. Member of the Learning Pillar group, College of Science 2008-2013 strategic planning effort
8. Department of Statistics representative, College of Science Undergraduate Committee (2006-2008)
9. Member of the Regenstrief Center for Healthcare Engineering (RCHE) faculty search committee (2005-present)
10. Mentor, Undergraduate Research Experience Purdue-Colombia (UREP-C) (2005)

11. Mentor, MARC/AIM Summer Research Program Scholars (2005)
12. Member of Task Force on Undergraduates (2004-2006)
13. Chair, Coalese Spatial Statistician Search Committee (2004-2007)
14. Co-Associate Chair, Committee on the Use of Human Research Subjects (2003-2005)
15. Committee on the Use of Human Research Subjects (2002-2008)
16. School of Science Elections Committee (2000-2004)
17. Chair, School of Science Grade Appeals Committee (1999-2000)
18. School of Science Grade Appeals Committee (1998-2000)
19. Served on over 40 Ph.D. committees and 80 Masters committees