

Joshua M. Tebbs

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Date and Place of Birth: 1973; Fort Madison, Iowa, USA

Degrees

- 2000 Ph.D., Statistics, North Carolina State University
Advisor: William H. Swallow
- 1997 M.S., Statistics, University of Iowa
- 1995 B.S., Mathematics, Statistics; Honors: Statistics; Minor: Spanish, University of Iowa

Professional Experience

- 2012- Professor, Department of Statistics, University of South Carolina
- 2010-2012 Graduate Director, Department of Statistics, University of South Carolina
- 2008-2011 Associate Professor, Department of Statistics, University of South Carolina
- 2006-2009 Undergraduate Director, Department of Statistics, University of South Carolina
- 2005-2008 Assistant Professor, Department of Statistics, University of South Carolina
- 2004-2005 Undergraduate Director, Department of Statistics, Kansas State University
- 2003-2005 Assistant Professor, Department of Statistics, Kansas State University
- 2001-2003 Assistant Professor, Department of Statistics, Oklahoma State University
- 2000-2001 Statistician, United Technologies
- 1997-2000 Teaching Assistant, Department of Statistics, North Carolina State University
- 1995-1997 Teaching Assistant, Department of Statistics, University of Iowa

Current Research Interests

Categorical data, statistical methods for pooled data (group testing), order-restricted inference, applications in epidemiology and public health

Professional Organizations

American Statistical Association
Institute of Mathematical Statistics
International Biometrics Society (ENAR)

Honors and Awards

American Statistical Association Outstanding Statistical Application Award, 2018

Best Paper in *Biometrics* by an IBS Member, 2017

Fellow, American Statistical Association, 2014

Citation: “For influential contributions to order-restricted inference as well as group testing methods and practice; for inspirational statistical teaching and mentoring; and for dedicated service to his department and to the ASA.”

American Statistical Association Outstanding Statistical Application Award, 2014

Finalist for Michael J. Mungo Undergraduate Teaching Award, University of South Carolina, 2012

Finalist for Michael J. Mungo Undergraduate Teaching Award, University of South Carolina, 2011

Nominated for Two Thumbs Up Faculty Award, Office of Student Disability Services, University of South Carolina, 2010

Travel award for the ENAR Spring Meeting (Workshop for Junior Researchers), Pittsburgh, 2004

North Carolina State Department of Statistics Paige Plagge Graduate Award for Outstanding Citizenship, 2000

North Carolina State UGSA Teaching Effectiveness Award, 2000

President, NCSU Department of Statistics Graduate Association, 1999-2000

North Carolina State UGSA Teaching Effectiveness Award, 1999

University of Iowa Department of Statistics Allen T. Craig Award for Outstanding Teaching Assistant, 1997

University of Iowa Council on Teaching Award for Outstanding Teaching Assistant, 1997

University of Iowa Honors Program, 1992-1995

Refereed Publications

1. Wang, D., McMahan, C., Tebbs, J., and Bilder, C. (2018). Group testing case identification with biomarker information. *Computational Statistics and Data Analysis* **122**, 156–166.
2. McMahan, C., Tebbs, J., Hanson, T., and Bilder, C. (2017). Bayesian regression for group testing data. *Biometrics* **73**, 1443–1452.
3. Tang, C., Wang, D., and Tebbs, J. (2017). Nonparametric goodness-of-fit tests for uniform stochastic ordering. *Annals of Statistics* **45**, 2565–2589.
4. Warasi, M., McMahan, C., Tebbs, J., and Bilder, C. (2017). Group testing regression models with dilution submodels. *Statistics in Medicine* **36**, 4860–4872.
5. Hou, P., Tebbs, J., Bilder, C., and McMahan, C. (2017). Hierarchical group testing for multiple infections. *Biometrics* **73**, 656–665.

Note: This paper won the 2017 award for Best Paper in *Biometrics* by an IBS Member and the 2018 American Statistical Association Outstanding Statistical Application Award.

6. Warasi, M., Tebbs, J., McMahan, C., and Bilder, C. (2016). Estimating the prevalence of multiple diseases from two-stage hierarchical pooling. *Statistics in Medicine* **35**, 3851–3864.
 7. McMahan, C., Tebbs, J., and Bilder, C. (2016). Invited rejoinder to “A note on the evaluation of group testing algorithms in the presence of misclassification.” *Biometrics* **72**, 303–304.
 8. Cox, C., Hashem, N., Tebbs, J., Bookstaver, B., and Iskersky, V. (2015). Evaluation of caffeine and the development of necrotizing enterocolitis. *Journal of Neonatal-Perinatal Medicine* **8**, 339–347.
 9. Black, M., Bilder, C., and Tebbs, J. (2015). Optimal retesting configurations for hierarchical group testing. *Journal of the Royal Statistical Society: Series C* **64**, 693–710.
 10. Tebbs, J., McMahan, C., and Bilder, C. (2013). Two-stage hierarchical group testing for multiple infections with application to the Infertility Prevention Project. *Biometrics* **69**, 1064–1073.
- Note:** This paper won the 2014 American Statistical Association Outstanding Statistical Application Award.
11. Zhang, B., Bilder, C., and Tebbs, J. (2013). Regression analysis for multiple-disease group testing data. *Statistics in Medicine* **32**, 4954–4966.
 12. Habiger, J., McCann, M., and Tebbs, J. (2013). On optimal confidence sets for parameters in discrete distributions. *Statistics and Probability Letters* **83**, 297–303.
 13. McMahan, C., Wang, L., and Tebbs, J. (2013). Regression analysis for current status data using the EM algorithm. *Statistics in Medicine* **32**, 4452–4466.
 14. McMahan, C., Tebbs, J., and Bilder, C. (2013). Regression models for group testing data with pool dilution effects. *Biostatistics* **14**, 284–298.
 15. Zhang, B., Bilder, C., and Tebbs, J. (2013). Group testing regression model estimation when case identification is a goal. *Biometrical Journal* **55**, 173–189.
 16. Baxter, S., Guinn, C., Tebbs, J., and Royer, J. (2013). There is no relationship between academic achievement and body mass index among fourth-grade, predominantly African-American children. *Journal of the Academy of Nutrition and Dietetics* **113**, 551–557.
 17. Bilder, C. and Tebbs, J. (2012). Pooled testing procedures for screening high volume clinical specimens in heterogeneous populations. *Statistics in Medicine* **31**, 3261–3268.
 18. McMahan, C., Tebbs, J., and Bilder, C. (2012). Two-dimensional informative array testing. *Biometrics* **68**, 793–804.
 19. McMahan, C., Tebbs, J., and Bilder, C. (2012). Informative Dorfman screening. *Biometrics* **68**, 287–296.
 20. Black, M., Bilder, C., and Tebbs, J. (2012). Group testing in heterogeneous populations by using halving algorithms. *Journal of the Royal Statistical Society: Series C* **61**, 277–290.
 21. Baxter, S., Paxton-Aiken, A., Tebbs, J., Royer, J., Guinn, C., and Finney, C. (2012). Secondary analyses of data from four studies with fourth-grade children show that sex, race, amounts eaten of standardized portions, and energy content given in trades explain the positive relationship between BMI and energy intake at school-provided meals. *Nutrition Research* **32**, 659–668.

22. Paxton-Aiken, A., Baxter, S., Tebbs, J., Finney, C., Guinn, C., Devlin, C., and Royer, J. (2012). How accurate are parental responses concerning their fourth-grade children's school-meal participation, and what is the relationship between children's body mass index and school-meal participation based on parental responses? *International Journal of Behavioral Nutrition and Physical Activity* **9**:30, 1–9.
23. Paxton, A., Baxter, S., Tebbs, J., Royer, J., Guinn, C., Devlin, C., and Finney, C. (2012). Non-significant relationship between participation in school-provided meals and body mass index during the fourth-grade school year. *Journal of the Academy of Nutrition and Dietetics* **112**, 104–109.
24. Pritchard, N. and Tebbs, J. (2011). Estimating disease prevalence using inverse binomial pooled testing. *Journal of Agricultural, Biological, and Environmental Statistics* **16**, 70–87.
25. Pritchard, N. and Tebbs, J. (2011). Bayesian inference for disease prevalence using negative binomial group testing. *Biometrical Journal* **53**, 40–56.
26. Bilder, C., Tebbs, J., and Chen, P. (2010). Informative retesting. *Journal of the American Statistical Association* **105**, 942–955.
27. Bilder, C., Zhang, B., Schaarschmidt, F., and Tebbs, J. (2010). binGroup: A package for group testing. *R Journal* **2**, 56–60.
28. Chen, P., Tebbs, J., and Bilder, C. (2009). Global goodness-of-fit tests for group testing regression models. *Statistics in Medicine* **28**, 2912–2928.
29. Chen, P., Tebbs, J., and Bilder, C. (2009). Group testing regression models with fixed and random effects. *Biometrics* **65**, 1270–1278.
30. Huang, X. and Tebbs, J. (2009). On latent-variable model misspecification in structural measurement error models for binary response. *Biometrics* **65**, 710–718.
31. McCann, M. and Tebbs, J. (2009). Simultaneous logit-based confidence intervals for odds ratios in $2 \times k$ classification tables with a fixed reference level. *Communications in Statistics: Simulation and Computation* **38**, 961–975.
32. Bilder, C. and Tebbs, J. (2009). Bias, efficiency, and agreement for group-testing regression models. *Journal of Statistical Computation and Simulation* **79**, 67–80.
33. Tebbs, J. and Roths, S. (2008). New large-sample confidence intervals for a linear combination of binomial proportions. *Journal of Statistical Planning and Inference* **138**, 1884–1893.
34. Tebbs, J. and McCann, M. (2007). Large-sample hypothesis tests for stratified group-testing data. *Journal of Agricultural, Biological, and Environmental Statistics* **12**, 534–551.
35. McCann, M. and Tebbs, J. (2007). Pairwise comparisons for proportions estimated by pooled testing. *Journal of Statistical Planning and Inference* **137**, 1278–1290.
36. Tebbs, J. and Bilder, C. (2006). Hypothesis tests for and against a simple order among proportions estimated by pooled testing. *Biometrical Journal* **48**, 792–804.
37. Kim, J., Tebbs, J., and An, S. (2006). Extensions of Mangat's randomized-response model. *Journal of Statistical Planning and Inference* **136**, 1554–1567.
38. Roths, S. and Tebbs, J. (2006). Revisiting Beal's confidence intervals for the difference of two binomial proportions. *Communications in Statistics: Theory and Methods* **35**, 1593–1609.

39. Carolan, C. and Tebbs, J. (2005). Nonparametric tests for and against likelihood ratio ordering in the two-sample problem. *Biometrika* **92**, 159–171.
40. Bilder, C. and Tebbs, J. (2005). Empirical Bayesian estimation of the probability of disease transmission in multiple-vector-transfer designs. *Biometrical Journal* **47**, 502–516.
41. Tebbs, J. and Bilder, C. (2004). Confidence interval procedures for the probability of disease transmission in multiple-vector-transfer designs. *Journal of Agricultural, Biological, and Environmental Statistics* **9**, 75–90.
42. Moser, B. and Tebbs, J. (2004). A new interim monitoring statistic for group sequential clinical trials. *Communications in Statistics: Theory and Methods* **33**, 153–164.
43. Tebbs, J. and Bower, K. (2003). Some comments on the robustness of Student t procedures. *Journal of Engineering Education* **92**, 91–94.
44. Tebbs, J., Bilder, C., and Moser, B. (2003). An empirical Bayes group-testing approach to estimating small proportions. *Communications in Statistics: Theory and Methods* **32**, 983–995.
45. Tebbs, J. and Swallow, W. (2003). More powerful likelihood ratio tests for isotonic binomial proportions. *Biometrical Journal* **45**, 618–630.
46. Tebbs, J. and Swallow, W. (2003). Estimating ordered binomial proportions with the use of group testing. *Biometrika* **90**, 471–477.

Other Publications

1. Bilder, C. and Tebbs, J. (2011). Informative retesting procedures to assay high volume clinical specimens. International Statistical Institute: Proceedings of the 58th World Statistics Congress, 5806–5811.
2. Bilder, C. and Tebbs, J. (2008). Book review of *An Introduction to Categorical Data Analysis* (2nd edition) by Alan Agresti. *Journal of the American Statistical Association* **103**, 1323.
3. Bilder, C. and Tebbs, J. (2004). Empirical Bayesian estimation of the disease transmission probability in multiple-vector-transfer designs. Proceedings of the American Statistical Association (Biometrics Section), 277–284.

Manuscripts in Review (or in Preparation)

1. Hou, P., Tebbs, J., Wang, D., McMahan, C., and Bilder, C. (2018). Array testing with multiplex assays.
2. Bilder, C., Tebbs, J., and McMahan, C. (2018). Informative group testing for multiplex assays.
3. Hitt, B., Bilder, C., Tebbs, J., and McMahan, C. (2018). The optimal group size controversy for infectious disease testing: Much ado about nothing?
4. Tang, C., El Barmi, H., Wang, D., and Tebbs, J. (2018). An empirical likelihood based test for positive quadrant dependence.
5. Liu, Y., McMahan, C., Gallagher, C., Tebbs, J., and Bilder, C. (2018). Bayesian generalized additive regression for group testing data.
6. Warasi, M., Tebbs, J., McMahan, C., and Bilder, C. (2018). Estimating the prevalence of multiple diseases from hierarchical group testing algorithms.

Grants Funded: External

National Institutes of Health (2016-2019). Group testing for infectious disease detection: Multiplex assays and back-end screening (R01-AI121351). PI: Christopher R. Bilder, University of Nebraska-Lincoln. Role: Co-I.

National Institutes of Health (2009-2012). School meals and BMI percentile: Secondary analyses of non-self-report data (R21-HL096035). PI: Suzanne Baxter, Institute for Families in Society, University of South Carolina. Role: Co-I.

Astellas Pharma US, Inc. (2009-2010). Activity of novel echinocandin lock solutions against *Candida* species using an in vitro model of catheter infection. PI: Brandon Bookstaver, College of Pharmacy, University of South Carolina. Role: Co-I.

National Institutes of Health (2007-2011). Disease detection and prevalence estimation through informative group testing (R01-AI067373). PI: Christopher R. Bilder, University of Nebraska-Lincoln. Role: Co-PI.

Merck & Co, Inc. (2007-2009). Bioactivity of echinocandin lock solutions against non-albicans *Candida* isolates. PI: Brandon Bookstaver, College of Pharmacy, University of South Carolina. Role: Co-I.

National Oceanic and Atmospheric Administration (2006-2007). Urbanization and southeastern estuarine systems. PI: Dwayne E. Porter, Department of Environmental Health Sciences, University of South Carolina. Role: Co-I.

Note: I have been part of 8 additional external grant proposals that were not funded.

Grants Funded: Internal

University of South Carolina Undergraduate Research, 2010

Big 12 Faculty Fellowship Program, 2004

Oklahoma State University College of Arts and Sciences Summer Research Program, 2002

Oklahoma State University College of Arts and Sciences Travel Grant, 2002

Oklahoma State University College of Arts and Sciences Dean's Incentive Grant, 2001

Invited Seminars

1. Department of Family Medicine and Public Health (Division of Biostatistics and Bioinformatics), University of California, San Diego, April 2018
2. Department of Economics, University of California, San Diego, April 2018
3. Department of Mathematical Sciences, Clemson University, November 2017
4. Department of Mathematics and Statistics, University of Maryland-Baltimore County, March 2017
5. Biostatistics Branch, Division of Cancer Epidemiology and Genetics, National Cancer Institute, March 2017
6. Department of Statistics and Actuarial Science, University of Iowa, April 2015
7. Department of Biostatistics, Johns Hopkins University, September 2014

8. Biostatistics Branch, National Institute of Environmental Health Sciences, April 2013
9. Department of Mathematical Sciences, Clemson University, March 2012
10. Department of Statistics, George Washington University, November 2011
11. Biostatistics and Bioinformatics Division, National Institute of Child Health and Human Development, November 2011
12. Department of Statistics, University of Munich, October 2011
13. Department of Statistics, Brigham Young University, October 2010
14. Department of Epidemiology and Biostatistics, University of South Carolina, October 2010
15. Centre for Mathematical Sciences, Lund University, November 2009
16. Department of Statistics, University of Nebraska, October 2009
17. Department of Statistics and Computer Information Systems, Baruch College (City University of New York), April 2008
18. Department of Statistics, Iowa State University, October 2007.
19. Department of Epidemiology and Biostatistics, University of South Carolina, April 2007
20. Department of Statistics and Actuarial Science, University of Iowa, October 2006
21. Department of Biostatistics, University of Alabama at Birmingham, September 2006
22. Biostatistics Branch, National Institute of Environmental Health Sciences, September 2006
23. Department of Statistics, University of South Carolina, September 2006
24. Department of Statistics, University of Georgia, April 2006
25. Department of Statistics, University of Oslo, November 2005
26. Department of Statistics, University of South Carolina, September 2005
27. Department of Statistics, University of South Carolina, February 2005
28. Department of Statistics, Stockholm University, September 2004
29. Department of Statistics, Kansas State University, February 2004
30. Department of Statistics, Kansas State University, February 2003
31. Department of Biostatistics and Epidemiology, University of Oklahoma, January 2003
32. Department of Statistics, Federal University of Rio de Janeiro, July 2002
33. Department of Statistics, Oklahoma State University, February 2002
34. Department of Statistics, Oklahoma State University, March 2001
35. Department of Mathematics and Statistics, Mississippi State University, February 2001
36. Department of Mathematics and Statistics, Texas Tech University, February 2001
37. Department of Statistics, University of Akron, February 2001

38. Department of Mathematics and Statistics, Miami University, February 2001
39. Department of Mathematics and Statistics, University of Missouri-Rolla, February 2001
40. Department of Management Science, University of Miami, January 2001
41. Department of Statistics, University of Waterloo, September 2000
42. Department of Statistics, North Carolina State University, February 2000

Conference Presentations

1. International Biometric Conference, Barcelona, 2018
2. Kansas State University Conference on Applied Statistics in Agriculture, Manhattan, 2017
3. South Carolina Chapter of the American Statistical Association Meeting, Clemson, 2014
4. Joint Statistical Meetings, Montréal, 2013
5. ENAR Spring Meetings, Orlando, 2013
6. ENAR Spring Meetings, Washington DC, 2012
7. Kansas State University Conference on Applied Statistics in Agriculture, Manhattan, 2010
8. ENAR Spring Meetings, New Orleans, 2010
9. ENAR Spring Meetings, San Antonio, 2009
10. ENAR Spring Meetings, Arlington, 2008
11. Kansas State University Conference on Applied Statistics in Agriculture, Manhattan, 2007
12. ENAR Spring Meetings, Atlanta, 2007
13. Joint Statistical Meetings, Seattle, 2006
14. ENAR Spring Meetings, Tampa, 2006
15. Joint Statistical Meetings, Minneapolis, 2005
16. Joint Statistical Meetings, Toronto, 2004
17. ENAR Spring Meetings, Pittsburgh, 2004
18. Joint Statistical Meetings, San Francisco, 2003
19. Kansas State University Conference on Applied Statistics in Agriculture, Manhattan, 2003
20. Oklahoma Chapter of the American Statistical Association Meeting, Oklahoma City, 2003
21. Joint Statistical Meetings, New York, 2002

Note: I have been a co-author (i.e., not the presenting author) on an additional **60** conference presentations.

(continued on the next page)

Teaching

University of South Carolina	# Sections	# Students
STAT 110 Introduction to Statistical Reasoning	4	370
STAT 509 Statistics for Engineers	8	337
STAT 511 Probability	6	158
STAT 512 Mathematical Statistics	5	140
STAT 513 Theory of Statistical Inference	3	65
STAT 520 Forecasting and Time Series	3	82
STAT 700 Applied Statistics I	1	8
STAT 712 Mathematical Statistics I	4	53
STAT 713 Mathematical Statistics II	5	64
STAT 714 Linear Statistical Models	3	39
STAT 823 Large Sample Theory	2	26
Kansas State University	# Sections	# Students
STAT 490 Statistics for Engineers I	1	26
STAT 510 Introductory Probability and Statistics I	2	85
STAT 713 Applied Linear Statistical Models	1	16
STAT 771 Theory of Statistics II	2	43
STAT 950 Clinical Trials and Epidemiology	1	16
Oklahoma State University	# Sections	# Students
STAT 2023 Elementary Statistics for Business/Economics	2	140
STAT 4203 Mathematical Statistics I	2	56
STAT 4213 Mathematical Statistics II	2	37
STAT 5013 Statistics for Experimenters I	1	47
STAT 5113 Intermediate Probability	1	1
STAT 5323 Theory of Linear Models I	1	6
STAT 5333 Theory of Linear Models II	1	6
North Carolina State University*	# Sections	# Students
ST 311 Introduction to Statistics	9	569
ST 371 Probability and Distribution Theory	1	22
ST 350 Statistics for Business and Economics	1	46

*Instructor of record

Course Development

STAT 715: Nonlinear Statistical Models. This is a new course that now serves as an elective for the PhD program in Statistics at USC.

STAT 823: Large Sample Theory. This is a new course that now serves as a requirement for the PhD program in Statistics at USC.

STAT 950: Clinical Trials and Epidemiology. This was a new course that I taught at Kansas State University in Spring 2005.

Student Direction

- PhD Students (Major Advisor)

1. Xichen Mou (co-advise with Dewei Wang). Expected graduation date: May 2019.

2. Chuan-Fa Tang (co-advise with Dewei Wang). “Nonparametric inference for orderings and associations between two random variables.” Graduated August 2017.
3. Peijie Hou (co-advise with Dewei Wang). “Topics in group testing with multiple infections.” Graduated May 2017.

Note: Peijie won a 2015 ENAR Student Paper Award for his submission “Hierarchical group testing for multiple infections.”

4. Md S. Warasi. “Modern estimation problems in group testing.” Graduated August 2016.
5. Christopher McMahan. “Topics in heterogeneous group testing.” Graduated May 2012.

Note: Chris won a 2011 ENAR Student Paper Award for his submission “Informative Dorfman screening.”

6. Peng Chen. “Topics in binary regression models with group testing data.” Graduated December 2008.
7. Nicholas Pritchard. “Geometric group testing.” Graduated December 2008.

- MS Students (Major Advisor)

1. Chun Pan. “Estimation of logistic regression model parameters using the EM algorithm for three group testing strategies.” Graduated August 2009.
2. Lance Ridpath. “Simultaneous confidence intervals for log-odds ratios.” Graduated August 2005.
3. Scott Roths. “Empirical Bayes confidence intervals for the difference of two independent binomial proportions.” Graduated May 2005.
4. Hyung-Tae Kim. “Using conjoint analysis to examine the preferences of graduate students when registering for elective courses.” Graduated May 2003.
5. Daniel Scott. “A comparison of three confidence interval procedures for group-testing proportions in the presence of testing errors.” Graduated May 2003.

- BS Students (Major Advisor)

1. Kevin Doerge. Honors Thesis: “Game over: Modeling the probability of converting a save.” Graduated May 2012.

- Graduate Committee Member (at USC/KSU/OSU combined): 20 PhD, 13 MS, 1 MAS
- Undergraduate Committee Member (USC, Reader for Honors Thesis): 2
- Committee Member, Heathwood Hall Episcopal High School Senior Exhibition

Professional Service

- Grant/Proposal Reviews

- Panel Member, NIH, Biostatistical Methods and Research Design (BMRD)
 - * Permanent: 2017-2021
 - * Temporary: 2016, 2017 (2)
- Panel Member, NIH, Risk, Prevention, and Health Behavior IRG (RPHB), 2016, 2017
- Panel Member, NIH, Healthcare Delivery and Methodologies IRG (HDM), 2016
- Panel Member, NSF DMS/Quantitative Approaches to Biomedical Big Data (QuBBD), 2016
- Panel Member, NSF DMS/NIGMS: 2012, 2013
- Panel Member, NSF DMS, Statistics: 2011, 2012, 2015, 2018
- Reviewer, Research Grants Council (RGC) of Hong Kong, 2014-2018 (13 proposals)
- Reviewer, PSC-CUNY Research Awards, 2008

- Professional Committees/Elected Positions
 - Member, Outstanding Statistical Application Award Committee, American Statistical Association, 2017-2019
 - Chair, Current Index to Statistics Management Committee, American Statistical Association, 2015
 - Member, Current Index to Statistics Management Committee, American Statistical Association, 2013-2014
 - Chair, Council of Chapters, American Statistical Association, 2010-2011
 - Member, ENAR Student Paper Award Committee, 2005-2007
 - Chair, Mu Sigma Rho Statistics Education Award Committee, 2005-2007
 - Vice President, Mu Sigma Rho National Statistics Honorary Society, 2004-2007
 - Vice President, Oklahoma Chapter of the American Statistical Association, 2002-2003
 - President, NCSU Department of Statistics Graduate Association, 1999-2000
- Conference Committees/Organization
 - Organizer and Chair of the Invited Session, “Measurement error models.” Latent Variables Conference, 2016
 - Chair, Session 30: Dose response and nonlinear models. ENAR Spring Meetings, 2013
 - Member, Program Committee, Joint Statistical Meetings, 2011
 - Organizer and Chair of the Invited Session, “Modern data analysis with order restrictions: A tribute to Tim Robertson.” Joint Statistical Meetings, 2011
 - Organizer of the Invited Session, “Measurement error and latent variable modeling.” Southern Regional Council on Statistics, 2011
 - Organizer and Chair of the Topic Contributed Session, “Recent advances in group testing methodology.” Joint Statistical Meetings, 2010
 - Chair, Session 38: Clustered survival data. ENAR Spring Meetings, 2009
 - Organizer and Chair of the Invited Session, “Nonparametric constrained inference.” Current and Future Trends in Nonparametrics, 2007
 - Chair, Session 33: Multiple testing and false discovery rates. ENAR Spring Meetings, 2005
 - Chair, Session 471: Multivariate approaches to gene expression data. Joint Statistical Meetings, 2003
- Tenure/Promotion Review
 - Brigham Young University, Department of Statistics (2)
 - Medical University of South Carolina, Department of Public Health Sciences (2)
 - Miami University, Department of Statistics
 - Michigan Technological University, Department of Mathematical Sciences
 - Texas Tech University, Department of Mathematics and Statistics
 - University of California-Riverside, Department of Statistics
 - University of Kansas, Department of Biostatistics
 - University of Oklahoma, Department of Biostatistics and Epidemiology
- Editorial Service
 - Editorial Board, *Journal of Modern Applied Statistical Methods*, 2001-2008
 - Internal Editor, NIEHS, 2006
- Referee for **135** papers:
 - Advances in Virus Research

- American Statistician (9)
- Annals of Applied Statistics
- Biometrical Journal (3)
- Biometrics (13)
- Biometrika (2)
- Biostatistics (3)
- BMC Medical Informatics and Decision Making
- Communications in Statistics: Simulation and Computation (12)
- Communications in Statistics: Theory and Methods (7)
- Computational Statistics and Data Analysis (3)
- Computers and Mathematics with Application
- Econometric Theory
- Emerging Themes in Epidemiology
- Journal of Agricultural, Biological, and Environmental Statistics (4)
- Journal of Agriculture Science
- Journal of the American Statistical Association (7)
- Journal of Applied Statistics
- Journal of Biopharmaceutical Statistics
- Journal of Clinical Epidemiology
- Journal of the Korean Statistical Society
- Journal of Natural Resources and Life Sciences Education
- Journal of Nonparametric Statistics
- Journal of Pharmacokinetics and Pharmacodynamics
- Journal of the Royal Statistical Society: Series B
- Journal of the Royal Statistical Society: Series C
- Journal of Statistical Computation and Simulation (9)
- Journal of Statistical Planning and Inference (12)
- Journal of Statistical Theory and Practice
- Journal of Survey Statistics and Methodology
- Management Science
- Metrika (3)
- Modelling and Simulation in Engineering
- Nucleic Acids Research
- Operations Research
- Phytopathology
- PLOS ONE
- Proceedings for the KSU Conference on Applied Statistics in Agriculture (2)
- Sankhya B
- Scientia Agricola
- Signal Processing
- Statistical Modelling
- Statistica Sinica
- Statistics and Computing
- Statistics in Medicine (12)
- Statistics and Probability Letters (4)
- Test

University Service

Chair, Faculty Grievance Committee, 2018-2019

Faculty Mentor, First-Year Scholars Program, 2016-2017

Member, Faculty Grievance Committee, 2016-2017

Chair, University Committee on Tenure and Promotion, 2014-2015

Member, American Cancer Society Institutional Research Grant Review Committee, 2014

Reviewer, SPARC Graduate Research Grant Program, 2014

Member, University Committee on Tenure and Promotion, 2012-2014

Faculty Advisor, Actuarial Science Club, 2010-2015

Member, College of Arts and Sciences Curriculum Committee, 2010-2011

Presenter, College of Pharmacy Residency Research Project Series, 2010

Undergraduate Research Mentor, SC STEP to STEM Program, 2010

Faculty Advisor, Pi Kappa Alpha Fraternity, 2008-2010

Instructor, STEM 101, 2008-2009

Member, Finance FEI Search Committee, 2008-2009

Member, College of Arts and Sciences Scholarship Committee, 2008-2009

Presenter, Pi Mu Epsilon Graduate School Information Night, 2008

Member, Woody Scholarship Committee, 2007-2010

Judge, Region II Science and Engineering Fair, 2007

Presenter, USC Graduate School Orientation, 2006

Volunteer, USC Showcase, 2006

Department Service

- Graduate Committee
 - Chair, 2010-2012 (Graduate Program Director)
 - Member, 2012-2014, 2016-2017
- Undergraduate Committee
 - Chair, 2006-2009 (Undergraduate Program Director)
 - Member, 2005-2006, 2009-2010
- Faculty Mentor (for Assistant Professors)
 - Dewei Wang, 2014-present
 - Ou Zhou, 2011-2012
 - Xianzheng Huang, 2009-2012
 - Lianming Wang, 2008-2010

- Miscellaneous

- Preliminary Exam Committee
 - * Chair: Jan 2010, May 2010, Jan 2013, May 2013, Jan 2015, May 2016
 - * Member: May 2006, May 2008, May 2011, May 2014, Jan 2017
- Member, MAS Exam Committee, 2018
- Chair, Faculty Search Committee, 2016-2018
- Chair, Tenure and Promotion Committee, 2013-2015, 2017-2018
- Chair, Chair Review Committee, 2012-2017
- Chair, Post-Tenure Review Committee, 2012-2013
- Member, Chairman's Advisory Committee, 2010-2018
- Chair, Colloquium Committee, 2009-2010
- Member, Grievance Committee, 2008-2009
- Chair, Assistant Professor Peer Review Committee, 2008-2009
- Chair, Instructor Peer Review Committee, 2008
- Member, Self-study Committee, 2007-2009
- Organizer, AP Statistics Practice Exam, 2007
- Department Liaison to Mathematical Association of America, 2006-2009
- Member, Chairman's Advisory Committee, 2006-2009
- Member, Nominations and Awards Committee, 2006-2009
- Proctor, AP Statistics Practice Exam, 2006, 2009
- Organizing Committee Member, Nonparametrics Conference, 2006-2007
- Member, Faculty Search Committee, 2005-2012
- Advisor, Statistics Club, 2005-2009

Service at KSU/OSU

- Kansas State University

- Chair, Preliminary Exam Committee, 2005
- Director, Undergraduate Program, 2004-2005
- Member, Preliminary Exam Committee, 2004
- Member, Undergraduate Curriculum Assessment Committee, 2003-2004
- Member, Faculty Search Committee, 2003-2004

- Oklahoma State University

- Chair, Seminar Committee, 2002-2003
- Member, Personnel Committee, 2002-2003
- Panel speaker, Arts and Sciences Career Services, 2002
- Member, Undergraduate Committee, 2001-2003
- Advisor, Statistics Club, 2001-2002