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EDUCATION

Ph.D. Statistics, Duke University, Durham, NC, May 1995

M.S. Statistics, Carnegie Mellon University, Pittsburgh, PA, August 1990

B.A. Mathematical Sciences (summa cum laude), Rice University, Houston, TX, May 1989

PROFESSIONAL EXPERIENCE

2013-present North Carolina State University, Raleigh, NC

2024-present Senior Associate Vice Chancellor for Research

2020-2024 Associate Vice Chancellor for National Security and Special Research Initiatives,
Office of Research and Innovation

2015-present Professor, Department of Statistics

2014-present Principal Investigator, Laboratory for Analytic Sciences

2013-2015 Associate Professor, Department of Statistics

Lead university-wide research development for defense and national security; data science, machine learning, artificial intelligence, and analytics; national laboratory collaborations; quantum computing. Create and lead unique research partnership with the Intelligence Community.

2011-2013 Institute for Defense Analyses, Alexandria, VA

Research Staff Member and Task Leader, Science and Technology Policy Institute
and Systems and Analyses Center/System Evaluation Division

Led projects in areas including reliability assessment for developmental testing, dynamic management of chemical-biological-radiological-nuclear-explosives collection assets, logistics needs for Arctic research, and quantitative science policy assessment.

2008-2011 Iowa State University, Ames, IA

Associate Professor, Department of Statistics

Taught and developed curriculum for introductory undergraduate, senior undergraduate and graduate classes, including large lecture courses. Extended research program to applications of statistics in intelligence.

1999-2008 Los Alamos National Laboratory, Los Alamos, NM

Scientist 5/Technical Staff Member, Statistical Sciences Group

Developed and led a \$3M portfolio of work in the application of statistics to the reliability of conventional and nuclear weapons. Led technical team that developed transformative reliability assessment methodology, including assessment framework, statistical methodology, knowledge modeling, and software tools. Created first Los Alamos project within the Munitions Lifecycle Technologies focus of the Department of Defense/Department of Energy Joint Munitions Program.

- 1995-1999** **Cowboy Programming Resources, Inc., El Paso, TX**
 1997-1999 Statistician/Senior Operations Research Systems Analyst
 1995-1996 Statistician/Operations Research Systems Analyst
Provided analytical support for U.S. Army operational evaluations of air defense artillery weapons systems. Planned data collection, data cleaning, data reduction, databases, and analysis. Developed original statistical methodology.
- 1991-1992** **Laboratory of Statistical and Mathematical Methodology, Division of Computer Research and Technology, National Institutes of Health, Bethesda, MD**
 Mathematical Statistician (GS-1529-9/11)
Provided support to over 20,000 users of the NIH computing resources for SAS, BMDP, SPSS, GLIM, S-PLUS, FORTRAN and IMSL on a variety of platforms and operating systems. Consulted and collaborated with biomedical researchers on statistical projects, with a focus on clinical patient care. Developed and taught courses in SAS and S-PLUS.

ADMINISTRATIVE ACCOMPLISHMENTS

Expand Research Infrastructure

- Lead feasibility study for advanced nuclear research reactor
- Co-led post-COVID Innovation Task Force on Research to develop strategies for improving university performance, effectiveness, and operations within research and innovation
- Co-led the Research Data Security Compliance Steering Group to establish university infrastructure and compliance with NIST-800/171 requirements, which are a requirement for many Department of Defense contracts
- Created pilot micro-credential for joint innovation and entrepreneurship training between NC State and BMNT to offer training to the XVIII Airborne Corps and Army National Guard
- Established partnerships with defense, security, and intelligence organizations to expand opportunities for defense-related funding and student research

Increase National Laboratory Opportunities and Engagements

- Coordinated Memoranda of Understanding between NC State and Sandia National Laboratories, Savannah River National Laboratory, and Pacific Northwest National Laboratory to allow expanded research collaboration and joint faculty and staff appointments
- Established NC State-Pacific Northwest National Laboratory Distinguished Graduate Research Program
- Organized technical exchanges between NC State faculty and national laboratory staff to expand research joint funding and student opportunities

Launch an Institutional Focal Point for Data Science

- Ideated and launched the Data Science Academy. Conducted strategic planning, developed “Data Science is for Everyone” branding, led successful search for executive director, established initial courses, created seed funding program for interdisciplinary data science research.

- Proposed a campus-wide data science and analytics consulting service and partnered with Libraries on implementation.
- Led research-focused activities for the Data Science Initiative, to include establishing campus-wide seminar series and expanding Data Matters short course series to support incoming students and faculty.

Create and Lead an Innovative Partnership, Laboratory for Analytic Sciences

- Created and implemented the innovation model for the Laboratory for Analytic Sciences (LAS) that partners government researchers and analysts with interdisciplinary university faculty and students and staff from companies, nonprofits, and national laboratories.
- Partnered with hundreds of faculty, students, and staff from 36 universities and 26 companies worldwide on over \$90M in research and development.
- As Principal Investigator for LAS, manage 13 staff; provide strategic and technical direction; oversee contracting, budgeting and compliance; lead stakeholder engagement; develop funding portfolio.
- Prototyped solutions for key intelligence community problems, including an integrated set of tools for detecting the scope and effectiveness of malign influence campaigns, data-informed approaches for predicting radicalization and violent terrorism, and foundational work on cognitive and artificial intelligence approaches to anticipatory intelligence.
- Established Summer Conference on Applied Data Science at NC State. SCADS is an annual \$1.3M program that brings together interdisciplinary experts from academia, industry and government for eight weeks to address a challenge problem.

Excel Locally and Nationally in Research and Service

- Before and while serving as Senior Associate Vice Chancellor, maintained a productive research portfolio; mentored PhD students, undergraduate researchers, and postdoctoral fellows; published, spoke, and participated in academic outreach
- Served on national panels and boards, including as Chairman of the Board of Directors for the National Institute of Statistical Sciences; multiple committees for the National Academies of Sciences, Engineering, and Medicine; and leadership positions with the American Association for the Advancement of Science and the American Statistical Association
- Served as an expert reviewer for (among others) the Department of Energy Office of Defense Nuclear Nonproliferation, Los Alamos National Laboratory, Pacific Northwest National Laboratory, the National Academies of Sciences, Engineering, and Medicine, and the National Center for Atmospheric Research
- Maintain formal collaborative relationships with Los Alamos National Laboratory and the Institute for Defense Analyses to expand research projects and provide opportunities for students

REFEREED PUBLICATIONS

Patent, Books, Journal Articles, Conference Publications, Book Chapters

Reliability

76. A. Hollis, N. Clark, T. Moore, A. Wilson. Bayesian Approaches for Long-Range Precision Fire Evaluation. To appear in *Military Operations Research Journal*.
75. J. Cahoon, K. Sanborn, A. Wilson (2021). [Practical Reliability Growth Modeling](#). *Quality and Reliability Engineering International* 37(7): 3108-3124.
74. J. Gilman, K. Fronczyk, A. Wilson (2019). [Bayesian Modeling and Test Planning for Multi-phase Reliability Assessment](#). *Quality and Reliability Engineering International* 35(3): 750-760.
73. R. Zoh, A. Wilson, S. Vander Wiel, E. Lawrence (2018). [Using the Negative Log-Gamma Distribution for System Reliability Assessment](#). *Journal of Risk and Reliability* 232(3): 308-319.
72. B. Weaver, M. Hamada, A. Wilson, J. Bakerman (2017). [Bayesian Assurance Tests for Degradation Data](#). *Quality and Reliability Engineering International* 33(8): 2699-2709.
71. X. Zhang, A. Wilson (2017). [System Reliability and Component Importance under Dependence: A Copula Approach](#). *Technometrics* 59(2): 215-224.
70. A. Wilson, K. Fronczyk (2017). [Bayesian Reliability: Combining Information](#). *Quality Engineering* 29(1): 119-129.
69. R. Dickinson, L. Freeman, B. Simpson, A. Wilson (2015). [Statistical Models for Combining Information: Stryker Reliability Case Study](#). *Journal of Quality Technology* 47(4): 400-415.
68. C. S. Reese, A. Wilson (2014). [Discussion of "Methods for Planning Repeated Measures Accelerated Degradation Tests."](#) *Applied Stochastic Models in Business and Industry* 30(6): 674-676.
67. M. Hamada, A. Wilson, B. Weaver, R. Griffiths, H. Martz (2014). [Bayesian Binomial Assurance Tests for System Reliability Using Component Data](#). *Journal of Quality Technology* 46(1): 24-32. Paper selected for JQT invited session at 2014 INFORMS Annual Meeting.
66. J. Guo, A. Wilson (2013). [Bayesian Methods for Estimating the Reliability of Complex Systems using Heterogeneous Multilevel Information](#). *Technometrics* 55(4): 461-472.
65. L. Lu, C. Anderson-Cook, A. Wilson (2011). [Choosing a Consumption Strategy for a Population of Systems based on Reliability](#). *Journal of Risk and Reliability (Proceedings of the Institution of Mechanical Engineers, Part O)*, 225(4): 407-423.
64. A. Wilson, C. Anderson-Cook, A. Huzurbazar (2011). [A Case Study for Quantifying System Reliability and Uncertainty](#). *Reliability Engineering and System Safety*, 96(9): 1076-1084.
63. C. Anderson-Cook, S. Crowder, A. Huzurbazar, J. Lorio, J. Ringland, A. Wilson (2011). [Quantifying Reliability Uncertainty from Catastrophic and Margin Defects: A Proof of Concept](#). *Reliability Engineering and System Safety* 96(9): 1063-1075.
62. C. S. Reese, A. Wilson, J. Guo, M. Hamada, V. Johnson (2011). [A Bayesian Model for Integrating Multiple Sources of Lifetime Information in System-Reliability Assessments](#). *Journal of Quality Technology* 43(2): 127-141.
61. S. Vander Wiel, A. Wilson, T. Graves, C. S. Reese (2011). [A Random Onset Model for Degradation of High-Reliability Systems](#). *Technometrics* 53(2): 163-172.
60. A. Wilson, C. Anderson-Cook (2010). Discussion of ["Reliability Growth Management Metrics and Statistical Methods for Discrete-Use Systems."](#) *Technometrics* 52(4): 397-400.

59. A. Wilson, A. Huzurbazar, K. Sentz (2009). [The Imprecise Dirichlet Model For Multilevel Systems Reliability](#). *Journal of Statistical Theory and Practice* 3(1): 211-223.
58. M. S. Hamada, A. G. Wilson, C. S. Reese, H. F. Martz (2008). [Bayesian Reliability](#). Springer, New York. Chinese edition (2013).
57. N. Singpurwalla, A. Wilson (2008). [Probability, Chance, and the Probability of Chance](#). *IIE (Institute for Industrial Engineers) Transactions* 41(1): 12-22.
56. C. Anderson-Cook, T. Graves, N. Hengartner, R. Klamann, A. Koehler, A. Wilson, G. Anderson, G. Lopez (2008). [Reliability Modeling Using Both System Test and Quality Assurance Data](#). *Journal of the Military Operations Research Society* 13: 5-18.
55. A. Wilson, A. Huzurbazar (2007). [Bayesian Networks for Multilevel System Reliability](#). *Reliability Engineering and Systems Safety* 92(10): 1413-1420.
54. A. Wilson, L. McNamara, G. Wilson (2007). [Information Integration for Complex Systems](#). *Reliability Engineering and Systems Safety* 92(1): 121-130.
53. C. Anderson-Cook, T. Graves, M. Hamada, N. Hengartner, V. Johnson, C. S. Reese, A. Wilson (2007). [Bayesian Stockpile Reliability Methodology for Complex Systems with Application to a Munitions Stockpile](#). *Journal of the Military Operations Research Society* 12(2): 25-38.
52. A. Wilson (2007). Hierarchical Markov Chain Monte Carlo for Bayesian System Reliability. [Encyclopedia of Statistics in Quality and Reliability](#), F. Ruggeri, R. Kenett, F. Faltin, eds. Wiley, Chichester, UK, 824-828.
51. A. Wilson, T. Graves, M. Hamada, C. S. Reese (2006). [Advances in Data Combination, Analysis, and Collection for System Reliability Assessment](#). *Statistical Science* 21(4): 514-531.
50. A. Wilson, N. Limnios, S. Keller-McNulty, Y. Armijo, eds (2005). [Modern Statistical and Mathematical Methods in Reliability](#). World Scientific, Singapore. Chinese edition (2016).
49. M. Hamada, H. Martz, C. S. Reese, T. Graves, V. Johnson, A. Wilson (2004). [A Fully Bayesian Approach for Combining Multilevel Failure Information in Fault Tree Quantification and Corresponding Optimal Resource Allocation](#). *Reliability Engineering and Systems Safety* 86(3): 297-305.
48. S. Keller-McNulty, A. Wilson. Reliability for the 21st Century (2003). In [Mathematical and Statistical Methods in Reliability](#), B. Lindqvist, K. Doksum, eds., World Scientific, 15-30.
47. A. Wilson, C. S. Reese, M. Hamada, and H. Martz (2003). Integrated Analysis of Computational and Physical Experimental Lifetime Data. In [Mathematical Reliability: An Expository Perspective](#), R. Soyer, N. Singpurwalla, T. Mazzuchi, eds. Kluwer Press, 183-194.

Defense, Intelligence, and Counterterrorism

46. K. Hameed, R. Johnston, B. Younce, M. Tang, A. Wilson. [Motif-Based Exploratory Data Analysis for Malign Influence](#) (2023). *Proceedings of the 2023 International AAAI Conference on Web and Social Media*.
45. L. Wendelberger, J. Gray, A. Wilson, R. Houborg, B. Reich (2022). [Multiresolution Broad Area Search: Monitoring Spatial Characteristics of Gapless Remote Sensing Data](#). *Journal of Data Science* 20(4): 545-565.
44. J. Bakerman, K. Pazdernik, G. Korkmaz, A. Wilson (2021). [Dynamic Logistic Regression and Variable Selection: Forecasting and Contextualizing Civil Unrest](#). *International Journal of Forecasting* 38(2): 648-661.

43. A. Hollis, R. Smith, A. Wilson (2021). [Surrogate Based Mutual Information Approximation and Optimization for Urban Source Localization](#). *International Journal for Uncertainty Quantification* 11(5): 39-55.
42. A. Wilson, M. Schmidt, L. Schmidt, B. Winter (2019). [Immersive Collaboration on Data Science for Intelligence Analysis: An Interview with Alyson Wilson and Matthew Schmidt by Lara Schmidt and Brent Winter](#). *Harvard Data Science Review* 1(2).
41. H. Rendon, A. Wilson, J. Stegall (2018). [Is it “Fake News”? Intelligence Community Expertise and News Dissemination as Measurement for Media Reliability](#). *Intelligence and National Security* 33(7): 1040-1052.
40. J. Bakerman, K. Pazdernik, A. Wilson, R. Bahran, G. Fairchild (2018). [Twitter Geolocation: A Hybrid Approach](#). *ACM Transactions on Knowledge Discovery from Data* 20(3): 1-17.
39. A. Wilson, K. Fronczyk (2017). National Security Risk Analysis. [Wiley StatsRef: Statistics Reference Online 1](#), eds. N. Balakrishnan, T. Colton, B. Everitt, W. Piegorisch, F. Ruggeri, J. Teugels.
38. L. Dewald, R. Holcomb, S. Parry, A. Wilson (2016). [A Bayesian Approach to Evaluation of Operational Testing of Land Warfare Systems](#). *Journal of the Military Operations Research Society* 21(4): 23-32.
37. R. Brost, C. Phillips, D. Robinson, D. Stracuzzi, A. Wilson, D. Woodbridge (2015). [Computing Quality Scores and Uncertainty for Approximate Pattern Matching in Geospatial Semantic Graphs](#). *Statistical Analysis and Data Mining* 8(5/6): 340-352.
36. D. Nordman, J. Berry, C. Phillips, L. Fostvedt, A. Wilson, C. Seshadhri (2015). [Why Do Simple Algorithms for Triangle Enumeration Work in the Real World?](#) *Internet Mathematics* 11(6): 555-571.
35. J. Berry, L. Fostvedt, D. Nordman, C. Phillips, C. Seshadhri, A. Wilson (2014). [Why Do Simple Algorithms for Triangle Enumeration Work in the Real World?](#) *Proceedings of 5th Innovations in Theoretical Computer Science (ITCS) Conference*, 225-234.
34. J. Guo, D. Nordman, A. Wilson (2013). [Bayesian Nonparametric Models for Community Detection](#). *Technometrics* 55(4): 390-402.
33. G. Parnell, L. Borio, D. Banks, G. Brown, A. Wilson (2008). [Scientists Urge DHS to Improve Bioterrorism Risk Assessment](#). *Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science* 6(4): 1-4.
32. A. Wilson, G. Wilson, D. Olwell, eds (2006). [Statistical Methods in Counterterrorism: Game Theory, Modeling, Syndromic Surveillance, and Biometric Authentication](#). Springer, New York.
31. A. Wilson (1998). Sample Size Calculations for Test and Evaluation. *The ITEA Journal of Test and Evaluation* 19(September/October): 46-51.

Engineering and Industrial Applications

30. J. Lee, J. Rathsam, A. Wilson (2020). [Bayesian Statistical Models for Community Annoyance Survey Data](#). *Journal of the Acoustical Society of America* 147(4): 2222-2234.
29. A. Chakraborty, S. Lahiri, A. Wilson (2020). [A Statistical Analysis of Noisy Crowdsourced Weather Data](#). *Annals of Applied Statistics* 14(1): 116-142.
28. Y. Tian, H. Bondell, A. Wilson (2019). [Bayesian Variable Selection for Logistic Regression](#). *Statistical Analysis and Data Mining* 12(5): 378-393.
27. W. C. Lenhardt, M. Conway, E. Scott, B. Blanton, A. Krishnamoorthy, M. Hadzikadic, M. Vouk, A. Wilson (2016). [Cross-Institutional Research Cyberinfrastructure for Data Intensive](#)

[Science](#). *Proceedings of the IEEE High-Performance Extreme Computing Conference (HPEC) 2016*.

26. E. Casleton, U. Genschel, A. Wilson (2014). [A Pilot Study for Teaching Metrology in an Introductory Statistics Course](#). *Journal of Statistics Education* 22(3).
25. B. Weaver, M. Hamada, S. Vardeman, A. Wilson (2012). [A Bayesian Approach to the Analysis of Gauge R&R Data](#). *Quality Engineering* 24(4): 486-500.
24. C. M. Anderson-Cook, L. Lu, G. Clark, S. P DeHart, R. Hoerl, B. Jones, R. J. MacKay, D. C. Montgomery, P. A. Parker, J. Simpson, R. Snee, S. Steiner, J. Van Mullekom, G. G. Vining, A. G. Wilson (2012). [Statistical Engineering—Forming the Foundations](#). *Quality Engineering* 24: 110-132.
23. C. M. Anderson-Cook, L. Lu, G. Clark, S. P DeHart, R. Hoerl, B. Jones, R. J. MacKay, D. C. Montgomery, P. A. Parker, J. Simpson, R. Snee, S. Steiner, J. Van Mullekom, G. G. Vining, A. G. Wilson (2012). [Statistical Engineering—Roles for Statisticians and the Path Forward](#). *Quality Engineering* 24: 133-152.
22. M. Hamada, A. Huzurbazar, S. Vander Wiel, A. Wilson (2011). [Assessing the Risks of Sampling Rates for Surveilling a Population](#). *Quality Engineering* 23(3): 242-252.
21. A. Wilson, M. Hamada, M. Xu (2004). [Assessing Production Quality with Nonstandard Measurement Errors](#). *Journal of Quality Technology* 36(2): 193-206.
20. C. S. Reese, A. Wilson, M. Hamada, H. Martz, K. Ryan (2004). [Integrated Analysis of Computer and Physical Experiments](#). *Technometrics* 46(2): 153-164.
19. M. Hamada, H. Martz, C. S. Reese, A. Wilson (2001). [Finding Near-Optimal Bayesian Experimental Designs via Genetic Algorithms](#). *The American Statistician* 55(3): 175-181.

Materials Science

18. R. Broughton, S. O'Donnell, E. Gabilondo, C. Chung, P. Maggard, A. Wilson, B. Reich, R. Smith, J. Jones (2020). [Bayesian Refinement of Full Profile Diffraction Patterns for Uncertainty Quantification](#). *Acta Crystallographica, Section A: Foundations and Advances* 76(a1).
17. S. Singh, A. Paterson, L. Wendelberger, C. Fancher, B. Reich, R. Smith, A. Wilson, J. Jones (2020). Algorithms in Profile Diffraction Analysis. [Handbook on Big Data and Machine Learning in the Physical Sciences Volume 1: Big Data Methods in Experimental Materials Discovery](#), eds. I. Foster and S. Kalinin, World Scientific, 501-539.
16. J. Jones, R. Broughton, T. Iamsasri, C. Fancher, A. Wilson, B. Reich, R. Smith (2019). [The Use of Bayesian Inference in the Characterization of Materials and Thin Films](#). *Acta Crystallographica, Section A: Foundations and Advances* 75(a209).
15. A. Paterson, B. Reich, R. Smith, A. Wilson, J. Jones (2018). Bayesian Approaches to Uncertainty Quantification and Structure Refinement from X-ray Diffraction. [Materials Discovery and Design: Data Science and Optimal Learning](#), ed. T. Lookman, Springer, 81-102.
14. K. Pazdernik, B. Reich, K. Page, A. Wilson (2017). Hierarchical Bayesian Modeling of Atomic Structural Disorder. *Proceedings of the International Conference on Mathematics and Computational Methods Applied to Nuclear Science and Engineering*, Jeju, Korea.
13. T. Iamsasri, J. Guerrier, G. Esteves, C. Fancher, A. Wilson, R. Smith, E. Paisley, R. Johnson-Wilke, J. Ihlefeld, N. Bassiri-Gharb, J. Jones (2017). [A Bayesian Approach to Modeling Diffraction Profiles and Application to Ferroelectric Materials](#). *Journal of Applied Crystallography* 50: 211-220.

12. C. Fancher, Z. Han, I. Levin, K. Page, B. Reich, R. Smith, A. Wilson, J. Jones (2016). [Use of Bayesian Inference in Crystallographic Structure Refinement via Full Diffraction Profile Analysis](#). *Scientific Reports* 6:31625.

Biological Science

11. K. Gasior, N. Wagner, J. Cores, R. Caspar, A. Wilson, S. Bhattacharya, M. L. Hauck (2019). [The Influence of Cellular Contact and the TGF- \$\beta\$ Signaling Pathway on the Activation of the Epithelial Mesenchymal Transition](#). *Cell Adhesion and Migration*, 13(1): 63-75.
10. K. Gasior, M. Hauck, A. Wilson, S. Bhattacharya (2017). [A Theoretical Model of the Wnt Signaling Pathway in the Epithelial Mesenchymal Transition \(EMT\)](#). *Theoretical Biology and Medical Modelling* 14:19.
9. H. Graham, A. Motsinger-Reif, J. Buse, T. Havener, A. Wilson, M. Wagner, D. Rotroff, ACCORD/ACCORDion Investigators (2016). [Incorporating Concomitant Medications into Genome-Wide Analyses for the Study of Complex Disease and Drug Response](#). *Frontiers in Genetics/Applied Genetic Epidemiology* 7:138.
8. E. Chaney, D. Fritsch, S. Pizer, V. Johnson, A. Wilson (1999). [U.S. Patent 5926568](#). *Image Object Matching using Core Analysis and Deformable Shape Loci*. Licensed by Accuray (2013).
7. A. Wilson, V. Johnson. Models for Shape Deformation (1995). In [Bayesian Statistics 5](#), J. Berger, J. Bernardo, A. P. Dawid, A. F. M. Smith, eds. Oxford University Press, 801-808.
6. A. Knebel, S. Janson-Bjerklie, J. Malley, A. Wilson, J. Marini (1994). [Comparison of Breathing Comfort During Weaning with Two Ventilatory Modes](#). *American Journal of Respiratory and Critical Care Medicine* 149(January): 14-18.

Diversity and Interdisciplinarity

5. R. Durodoye, M. Gumpertz, A. Wilson, E. Griffith, S. Ahmad (2020). [Tenure and Promotion Outcomes at Four Large Land Grant Universities: Examining the Role of Gender, Race, and Academic Discipline](#). *Research in Higher Education* 61(5): 628–651.
4. E. Typhina, A. Wilson (2019). [Discussion of “Effective Interdisciplinary Collaboration Between Statisticians and Other Subject Matter Experts”](#). *Quality Engineering* 31(1): 192-194.
3. M. Gumpertz, R. Durodoye, E. Griffith, A. Wilson (2017). [Retention and Promotion of Women and Minority Faculty in Science and Engineering](#). *PLoS ONE*, 12(11): e0187285.
2. J. Wendelberger, A. Wilson, S. Stinnett, B. Gaydos (2014). [Working in Interdisciplinary Teams](#). *Chance* 27(4): 31-33.
1. S. Keller-McNulty, G. Wilson, A. Wilson (2005). [The Impact of Technology on the Scientific Method, with discussion](#). *Chance* 18(4): 4-8.

Submitted/In Preparation

- A. Hollis, A. Wilson, R. Smith, G. Tompkins. Bayesian Hidden Markov Models for Arms Control Monitoring. Submitted to *Statistics and Public Policy*.
- A. Hollis, R. Smith, A. Wilson, K. Pazdernik. Efficient, Well-Calibrated, and Interpretable Uncertainty Quantification for Deep Learning Classification. Submitted to *ACM Transactions on Knowledge Discovery from Data*.
- L. Wendelberger, B. Reich, A. Wilson, J. Gray. Comprehensive Land Cover Change Detection Using Robust Online Bayesian Monitoring. Submitted to *Environmetrics*.

H. Kim, A. Wilson. Risk Comparison and Planning for Binomial Reliability Tests. Submitted to *Reliability Engineering and System Safety*.

Peer-Reviewed Panel Reports

18. [Risk Analysis Methods for Nuclear War and Nuclear Terrorism, Phase 2 Report](#). Committee on Risk Analysis Methods for Nuclear War and Nuclear Terrorism, National Academies of Sciences, Engineering, and Medicine, 2023.
17. [Risk Analysis Methods for Nuclear War and Nuclear Terrorism, Phase 1 Report](#). Committee on Risk Analysis Methods for Nuclear War and Nuclear Terrorism, National Academies of Sciences, Engineering, and Medicine, 2023.
16. [Emerging Hazards in Commercial Aviation—Report 1: Initial Assessment of Safety Data and Analysis Processes](#). Committee on Emerging Trends in Aviation Safety, National Academies of Sciences, Engineering, and Medicine, 2022.
15. [An Assessment of Selected Divisions of the Information Technology Laboratory at the National Institute of Standards and Technology](#). Committee on NIST Technical Programs, National Academies of Sciences, Engineering, and Medicine, 2021.
14. [Empowering the Defense Acquisition Workforce to Improve Mission Outcomes Using Data Science](#). Committee for Improving Defense Acquisition Workforce Capability in Data Use, National Academies of Sciences, Engineering, and Medicine, 2021.
13. [Improving Defense Acquisition Workforce Capability in Data Use: Proceedings of a Workshop in Brief](#). Committee for Improving Defense Acquisition Workforce Capability in Data Use, National Academies of Sciences, Engineering, and Medicine, 2020.
12. [Learning from the Science of Cognition and Perception for Decision Making: Proceedings of a Workshop](#). Steering Committee on Learning from the Science of Cognition and Perception for Decision Making supporting the Committee on a Decadal Survey of Social and Behavioral Sciences for Applications to National Security, National Academies of Sciences, Engineering, and Medicine, 2018.
11. [Complex Decision Making in Networked Systems of Humans and Machines: A Multidisciplinary Approach](#). Committee on Integrating Humans, Machines and Networks: A Global Review of Data-to-Decision Technologies, National Research Council of the National Academies, 2014.
10. [Assessing the Reliability of Complex Models: Mathematical and Statistical Foundations of Verification, Validation, and Uncertainty Quantification](#). Committee on Mathematical Foundations of Verification, Validation, and Uncertainty Quantification, National Research Council of the National Academies, 2012.
9. [Testing of Body Armor Materials, Phase III](#). Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army, National Research Council of the National Academies, 2012.
8. [Industrial Methods for the Effective Testing and Development of Defense Systems](#). Panel on Industrial Methods for the Effective Test and Development of Defense Systems National Research Council of the National Academies, 2011.
7. [Testing of Body Armor Materials for Use by the U.S. Army, Phase II](#). Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army, National Research Council of the National Academies, 2010.

6. [Phase I Report on Review of the Testing of Body Armor Materials for Use by the U.S. Army.](#) Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army, National Research Council of the National Academies, 2009.
5. [Department of Homeland Security Bioterrorism Risk Assessment: A Call for Change.](#) Committee on Methodological Improvements to the Department of Homeland Security's Biological Agent Risk Analysis, National Research Council of the National Academies, 2008.
4. [Mathematics for Analysis of Petascale Data: Report on a Department of Energy Workshop.](#) Applied Mathematics Program of the Office of Advanced Scientific Computing Research (ASCR), Office of Science, Department of Energy, 2008.
3. [Improved Operational Testing and Evaluation and Methods of Combining Test Information for the Stryker Family of Vehicles and Related Army Systems: Phase II Report.](#) Panel on Operational Test Design and Evaluation of the Interim Armored Vehicle, National Research Council of the National Academies, 2004.
2. [Improved Operational Testing and Evaluation: Better Measurement and Test Design for the Interim Brigade Combat Team with Stryker Vehicles, Phase I Report.](#) Panel on Operational Test Design and Evaluation of the Interim Armored Vehicle, National Research Council of the National Academies, 2003.
1. [Test Design and Evaluation for the Interim Armored Vehicle.](#) Panel on Operational Test Design and Evaluation of the Interim Armored Vehicle, National Research Council of the National Academies, 2002.

Peer-Reviewed Technical Reports

49. J. Lee, J. Rathsam, A. Wilson (2019). Statistical Modeling of Quiet Sonic Boom Community Response Survey Data. NASA/TM-2019-220427.
48. M. Avery, J. Cartier, S. Cazares, P. Dolph, J. Fregeau, J. Holzer, K. Morrison, S. Nunes, K. Papadantonakis, S. Renn, J. Snyder, K. Spencer, A. Wilson (2013). Review of Methods and Algorithms for Dynamic Management of CBRNE Collection Assets. IDA Document ID P-4995.
47. M. Ambroso, A. Kelley, A. Wilson (2013). Reliability Basics: Key Reliability Concepts for DT&E. IDA Document ID P-4925.
46. E. Adelizzi, R. Bontz, J. Fleury, A. Kelley, A. Kim, R. Mahoney, J. Palguta, S. Renn, G. Sharp, J. Urban, R. Uy, A. Wilson (2013). Analytical Support to the Hard and Deeply Buried Target Defeat Deep Dive Team: Final Report. IDA Document ID P-4998.
45. S. Jonas and A. Wilson. Foresight and Understanding from Scientific Exposition (2012). IDA Document ID 2012-08482.
44. B. Lal, S. Jonas, A. Wilson, E. Lee, A. Richards, V. Peña (2012). [An Outcome Evaluation of the National Institutes of Health \(NIH\) Director's Pioneer Award \(NDPA\) Program](#), FY 2004-2006. IDA Document ID P-4899.
43. B. Lal, S. Jonas, A. Wilson, E. Lee, A. Richards, V. Peña (2012). Preliminary Findings of Outcome Evaluation of the National Institutes of Health (NIH) Director's Pioneer Award (NDPA) Program, FY 2004-2006. IDA Document ID 2012-07132.
42. M. Ambroso, B. Barrois, J. Buontempo, D. DeRiggi, J. Fox, M. Fries, K. Guerrero, J. Hong, D. Hunter, A. Kim, S. Ouellette, G. Sharp, R. Uy, G. Willmes, A. Wilson (2012). Independent Review and Assessment of the Ground-Based Midcourse Defense System. IDA Document ID P-4802.

41. L. Freeman, A. Wilson, M. Nuñez (2012). Leveraging Simulation Rools into Operational Test Solutions for MQ-9 Using Experimental Design and Analysis Techniques (Memorandum). IDA Document ID 2012-06610.
40. B. Lal, S. Jonas, A. Wilson, E. Lee, V. Peña, A. Richards (2012). NDPA Program Evaluation Study Design (Memorandum). IDA Document ID 2012-06285.
39. P. Flattau, S. Nash, M. Nuñez, A. Wilson, D. Basco, A. Laskey, S. Jonas (2011). Overlap, Redundancy, and Fragmentation in the 2011 Inventory of Federal STEM Education. IDA Document ID 2011-06156.
38. P. Kegelmeyer et al. (2010). [Network Discovery, Characterization, and Prediction: A Grand Challenge LDRD Final Report](#). Sandia National Laboratories SAND Report 2010-8715.
37. C. Anderson-Cook, M. Hamada, A. Huzurbazar, A. Wilson, Q. Fatherley (2009). B-61 Subsystem Resource Allocation Case Study. LA-UR-09-05932.
36. D. Monroe, A. Huzurbazar, E. Kelly, A. Wilson, D. Ceman, J. Trujillo, D. Borovina (2009). An Element of Test Fire Optimization: Detonator Reliability for Potential Future Designs (Preliminary Report). LA-CP-09-00726.
35. A. Wilson, Q. Fatherley, M. Mundt, M. Dvorack (2008). Case Study System Uncertainty Block Diagram. LA-UR-08-1000.
34. R. Barber, B. Smith, R. Valicenti, S. McCreedy, K. Kelley, D. Crane, B. Aubert, F. Guerra, D. Harradine, S. Joyce, A. Wilson, G. Wilson, E. Lawrence, J. Reynolds, J. Bridgewater, M. Salmon, J. Mitchell, D. Schwartz, D. Brown, M. Prime, T. Sisneros, P. Burgardt, C. Necker, D. Veirs, T. Ickes, W. Ward, D. Gardiner, C. Cady, B. Taylor, R. Brunner, A. Chavez, D. Court, A. Sharif Heger, A. Charmatz, E. Schwegler, S. Abeln, D. Riha, B. Thacker (2007). Engineering Assessment of the Los Alamos National Laboratory—Manufactured Type 126 Pit. LA-CP-07-0778.
33. D. Harradine, S. Joyce, A. Wilson, G. Wilson, E. Lawrence, J. Reynolds, J. Bridgewater (2007). Requalification of Plutonium Chemical Aspects of LANL Manufactured Pits. LA-CP-07-0777.
32. D. Monroe, A. Munger, K. Laintz, A. Wilson, J. Kramer (2007). PETN Stabilization: Thermal Stress Effects of Four PETN Batches. LA-CP-07-0804.
31. T. Zocco, L. Morales, D. Teter, S. Larson, T. Stephens, A. Wilson, M. Elliot (2007). Enhanced Surveillance Campaign Input to the LANL 2007 Annual Assessment. LA-CP-07-0306.
30. C. Anderson-Cook, T. Graves, E. Lawrence, S. Vander Wiel, A. Wilson, G. Anderson, N. Delacruz, G. Lopez (2007). Stockpile Reliability Estimates for the TOW Missile. LA-CP-07-0998.
29. C. Anderson-Cook, T. Graves, A. Koehler, E. Lawrence, S. Vander Wiel, A. Wilson (2005). Comparing Different System Reliability Estimation Methods. LA-UR-05-9401.
28. A. Wilson (2005). Nuclear Explosives Package Reliability Assessment Methodology. LA-CP-05-0904.
27. A. Wilson, T. Graves, N. Hengartner, R. Klamann, A. Koehler, G. Anderson, K. Deal, G. Lopez (2004). Development of an Integrated Stockpile Reliability Model for the TOW Missile. LA-CP-04-0644.
26. A. Wilson, S. Keller-McNulty (2003). Complex Information Integration for Reliability and Performance Estimation for the BMD Family of Systems. LA-UR-03-5598.
25. N. Hengartner, A. Wilson (2003). Bayesian Stockpile Reliability Methodology for Complex Systems with Application to the STINGER Missile Stockpile. LA-CP-03-0894.

24. S. Eubank, C. Barrett, S. Michalak, D. Roberts, A. Wilson, G. Wilson (2002). Assessment of Responses to Smallpox Attack: Report to the Office of Homeland Security. LA-CP-02-0284.
23. C. S. Reese, J. Morzinski, A. Wilson (2002). Assessing Stinger Stockpile Reliability Using Information Integration Technology. LA-CP-02-0164.
22. A. Wilson, T. Graves, G. Hemphill (2002). Statistical Analysis Appendix for Process Qualification Plan 145. LA-CP-02-0104.
21. J. Booker, S. Keller-McNulty, M. Meyer, C. S. Reese, A. Wilson (2001). Probabilistic Information Integration Technology. LA-UR-01-1060.
20. T. Graves, A. Wilson (2001). Statistical Analysis of Part Homogeneity. LA-CP-01-0450.
19. T. Graves, A. Wilson (2001). Statistical Analysis of Gallium Concentrations. LA-CP-01-0449.
18. A. Wilson (2001). Statistical Analysis of DC Arc Data and Statistical Analysis of RFP Tbred Data. LA-CP-01-0346.
17. T. Graves, A. Wilson (2001). Statistical Analysis of Plutonium Exchange Data (1985-1988) and AWE Exchange Data. LA-CP-01-0194.
16. A. Wilson (2001). Chemical Analysis of WR Ingot Data. LA-CP-01-0193.
15. T. Graves, A. Wilson (2001). Statistical Appendix for Process Qualification Plan 141a and Process Qualification Plan 150-Rev A: Plutonium Assay by Controlled Potential Coulometry and Dissolution. LA-CP-01-0187.
14. T. Graves, A. Wilson (2001). Statistical Appendix for Process Qualification Plan 153-Rev A: Spectrophotometric Determination of Iron in Plutonium Materials. LA-CP-01-0186.
13. T. Graves, A. Wilson (2001). Statistical Appendix for Process Qualification Plan 142-Rev A: Pu Isotopic Distributions of Pu Materials by Thermal Ionization Mass Spectrometry. LA-CP-01-0185.
12. A. Wilson, S. Keller-McNulty (2000). Statistical Representations for Information Integration. LA-UR-00-4850.
11. M. McNulty, A. Wilson, S. Keller-McNulty (2000). Information Integration Technology. LA-UR-00-4849.
10. A. Wilson, M. Morris, J. Morrison (1999). NMD BMC2 Algorithm Analysis: Statistical Methods to Validate the National Missile Defense Battle Management Command and Control Software. LA-CP-99-0264.
9. Primary Author of *Draft Joint Tactical Ground Station Regression Testing System Assessment*. Prepared for U.S. Army Operational Evaluation Command, 1997.
8. Primary Author of *Draft Joint Tactical Ground Station Product Verification Test/First Article Test Operational Assessment*. Prepared for U.S. Army Operational Evaluation Command, 1996.
7. Contributing Author for *Draft Joint Tactical Ground Station Product Verification Test/First Article Test Independent Evaluation Briefing*. Prepared for U.S. Army Operational Evaluation Command, 1996.
6. Contributing Author for *Draft PATRIOT Advanced Capability-3, Configuration-2 Follow-on Test and Evaluation Analysis Report*. Prepared for U.S. Army Operational Evaluation Command, 1996.
5. Contributing Author for *Draft PATRIOT Advanced Capability-3, Configuration-2 Follow-on Test and Evaluation Test and Evaluation Report*. Prepared for U.S. Army Operational Evaluation Command, 1996.

4. Contributing Author for *Draft PATRIOT Advanced Capability-3, Configuration-2 Follow-on Test and Evaluation Independent Evaluation Briefing*. Prepared for U.S. Army Operational Evaluation Command, 1996.
3. Contributing Author for *Draft Joint Tactical Ground Station Developmental Test/Operational Test Analysis Report*. Prepared for U.S. Army Operational Evaluation Command, 1996.
2. Contributing Author for *Draft Joint Tactical Ground Station Developmental Test/Operational Test and Evaluation Report*. Prepared for U.S. Army Operational Evaluation Command, 1996.
1. Contributing Author for *Draft Joint Tactical Ground Station Developmental Test/Operational Test Independent Evaluation Briefing*. Prepared for U.S. Army Operational Evaluation Command, 1995.

EXTERNAL FUNDING

Research Funding

- | | |
|-----------|--|
| 2013-2024 | Laboratory for Analytic Sciences, National Security Agency and other U.S. and International Intelligence Community Partners, \$90M (to date) (PI) |
| 2023-2024 | Planning Grant for using Generative Artificial Intelligence in the Intelligence Community, \$100K (overall), \$49K (Wilson, Co-Investigator) |
| 2021-2022 | Ammunition Resource Optimizer, Army Research Laboratory, \$234,000 (PI) |
| 2018-2022 | Science of Test Research Consortium, Director Operational Test and Evaluation and Developmental Test and Evaluation Test Resource Management Center, \$478,430 (PI) |
| 2020-2021 | Reliability Modeling and Experimental Design for the Extended Range Cannon Artillery Increment 2, U.S. Military Academy at West Point, \$20,000 (PI) |
| 2016-2021 | NRT-DESE: Interdisciplinary Research Traineeships in Data-Enabled Science and Engineering of Atomic Structure, \$2.99M (Co-Investigator) |
| 2019-2020 | MAVEN Test and Evaluation Research, Carnegie Mellon University, \$250,000 (PI) |
| 2014-2020 | Consortium for Nonproliferation Enabling Capabilities, National Nuclear Security Administration, \$24M (overall), \$300,000/year (Wilson, Co-Investigator) |
| 2017-2019 | Dose-Response Modeling of Existing Sonic Boom Datasets, National Institute of Aerospace for NASA, \$95,000 (PI) |
| 2014-2018 | The Science of Test: Advanced Test and Evaluation in Support of the DOD Test and Evaluation Enterprise, Director Operational Test and Evaluation and Developmental Test and Evaluation Test Resource Management Center, \$6.3M (overall), \$100,000/year (Wilson, Co-Investigator) |
| 2014-2017 | North Carolina Data Sciences and Analytics Initiative, UNC-General Administration, \$2.17M (overall), \$721,000 (NCSU, Co-PI) |
| 2014-2016 | PARAKEET: Performance and Reliability Assessments for Knowledge of Electronic Emissions Technology, National Nuclear Security Administration, \$10.5M (overall), \$40,000/year (Wilson, Co-Investigator) |
| 2013-2015 | Science of Security Lablet, National Security Agency, \$2.5M (overall), \$50,000/year (Wilson, Co-Investigator) |
| 2014 | Data Readiness Level, Laboratory for Analytic Sciences, \$100,000 (PI). Technical Coordinator for Data Readiness Task. |

2013-2014 Information Content to Assess Data Readiness, Laboratory for Analytic Sciences, \$50,000 (overall), \$25,000 (Wilson, Co-PI)

2013-2014 Scalable Clustering Methods for Dynamic Health Data, Research Innovation Seed Funding, North Carolina State University, \$26,000 (Co-PI)

2013 Data Collection Instrument to Evaluate the Scientific Impact of Logistical Support Provided by the United States Antarctic Program, National Science Foundation, \$150,000 (IDA project, PI)

2013 Bibliometrics and Expert Judgment Methodology, IDA Corporate Research Program, \$15,000 (PI)

2013 Early Detection of Reliability Growth Issues, IDA Corporate Research Program, \$15,000 (PI)

2012-2013 Dynamic Analysis and Management of CBRNE Collection Assets, Defense Threat Reduction Agency, \$400,000 (IDA project, PI)

2010-2013 Statistically Significant Relational Data Mining, Sandia National Laboratories, \$1,699,000 (overall), \$265,000 (Wilson, Co-Investigator)

2012 Formalizing Observational Studies and Expert Panels, IDA Corporate Research Program, \$60,000 (Co-PI)

2008-2012 Estimative Language and Statistical Relational Learning, Sandia National Laboratories, \$285,000 (Co-PI)

2005-2008 LANL Systems Main Technical Element, Department of Energy Enhanced Surveillance Campaign, \$2.5M/year (LANL project, PI)

2003-2008 Munitions Stockpile Reliability Assessment, Department of Defense/Department of Energy Joint Munitions Program, \$600,000/year (LANL project, PI)

2004 Ballistic Missile Defense System On-Alert Capability Assessment, Missile Defense Agency, \$150,000 (LANL project, PI)

2002-2004 Space and Missile Defense Command Critical Measurements Program, Missile Defense Agency, \$300,000/year (LANL project, PI)

2001-2002 Stores Separation Project, F-22 Program Office, \$300,000/year (LANL project, PI)

2001 Software Reliability Assessment, Army Test and Evaluation Command, \$100,000 (LANL project, PI)

Teaching Funding

2016 A Department-Wide Mentoring Initiative to Encourage URM Student Success in Statistics, North Carolina State University Diversity Mini-Grant Program, \$1600 (Co-Investigator)

2014 Workshop on Opportunities for Modern Statistics in Materials and Chemistry Research, Eastman Chemical Company, \$9000 (Co-PI)

2014 North Carolina State University Library Alt-Textbook Mini-Grant, \$500 (PI)

2011 Mathematics and Statistics Opportunities for Undergraduates Conference, Iowa State University Women's Enrichment Mini-Grant, \$800 (Co-PI)

2010-2011 Strengthening Quantitative Literacy Using Case-Based Learning, Iowa State University Miller Faculty Fellowship, \$9672 (Co-PI)

AWARDS

- 2023 Division of Academic and Student Affairs Thank an Advisor, *recognizing outstanding advisors who go the extra mile to shape students through their mentorship and dedication*
- 2021 Office of Faculty Excellence Thank a Teacher, *recognizing outstanding faculty going the extra mile to shape students through their teaching and mentorship*
- 2019 North Carolina American Statistical Association Senior Statistician Award *for outstanding contributions to the theory and practice of statistics, particularly for contributions to the development of the subject in North Carolina*
- 2019 NCSU Department of Statistics D.D. Mason Award *for faculty excellence*
- 2018 American Statistical Association Section on Statistics in Defense and National Security Distinguished Achievement Award *for outstanding accomplishment and sustained contributions at the intersection of the statistical profession and national defense*
- 2017 American Statistical Association Statistical Partnerships Among Academe, Industry, and Government (SPAIG) Award *for the Laboratory for Analytic Sciences*
- 2017 North Carolina State University Research Leadership Academy *for the university's most outstanding researchers and mentors*
- 2017 2016-2017 Alumni Association Outstanding Research Award
- 2015 Fellow of American Association for the Advancement of Science
- 2015 [Army Wilks Memorial Award](#) *for contribution to the advancement of scientific or technical knowledge in Army statistics, ingenious application of such knowledge, or successful activity in the fostering of cooperation scientific matters which benefit the Army, the Department of Defense, and the nation*
- 2013 Office of Faculty Excellence Thank a Teacher, *recognizing outstanding faculty going the extra mile to shape students through their teaching and mentorship*
- 2012 Elected Member of the International Statistical Institute
- 2009 Department of Energy Defense Programs Award of Excellence *for significant contributions to the Stockpile Stewardship Program through contributions to the Joint Munitions Program*
- 2008 Los Alamos National Laboratory Director's Distinguished Performance Award (Large Team), *Detonator Powder Aging*
- 2008 Department of Energy Defense Programs Award of Excellence *for significant contributions to the Stockpile Stewardship Program through contributions to understanding high explosive detonator powder longevity*
- 2008 Fellow of the American Statistical Association
- 2008 LANL Star Award, Los Alamos Women's Diversity Working Group and the Office of Equal Opportunity and Diversity
- 2007 Department of Energy Defense Programs Award of Excellence *as member of the Los Alamos National Laboratory Core Surveillance Transformation Team*
- 2005 Los Alamos National Laboratory Achievement Award *for leadership in the quality initiative to transform reliability assessment for the nuclear stockpile*
- 2003 Best Broad-Appeal Paper (with S. Keller-McNulty) *for Uncertainty Quantification for Complex Engineered Systems*, JANNAF 39th Combustion/27th Airbreathing Propulsion/21st Propulsion Systems Hazards/3rd Modeling and Simulation Joint Subcommittee Meeting, Colorado Springs, CO
- 2000 Los Alamos National Laboratory Achievement Award *for leadership in DoD program development*

- 1995 Savage Dissertation Award in Bayesian Statistics for *Statistical Models for Shapes and Deformations* (advisor V. Johnson)
- 1993 Honorable Mention, Gertrude Cox Scholarship, American Statistical Association's Committee on Women in Statistics and the Caucus for Women in Statistics
- 1992 Clare Boothe Luce Fellowship for Women in Science, Duke University
- 1992 James B. Duke Fellowship in Statistics, Duke University
- 1992 National Institute of Health, Division of Computer Research and Technology Employee of the Month
- 1989 National Science Foundation Graduate Research Fellowship
- 1989 Phi Beta Kappa

TEACHING

University

- F2015 **ST 495/CSC 495 Introduction to Data Sciences** (46 students, 3 Cr.), North Carolina State University undergraduate course. Co-taught with R. Chirkova.
- F2014 **ST 495/CSC 495 Introduction to Data Sciences** (49 students, 3 Cr.), North Carolina State University undergraduate course. Co-taught with R. Chirkova.
- F2013 **ST 740 Bayesian Inference and Analysis** (34 students, 3 Cr.), North Carolina State University graduate course.
- F2013 **ST 515 Experimental Statistics for Engineers I** (56 students, 3 Cr.), North Carolina State University graduate course. *Thank-a-Teacher Recipient*.
- F2012 **STAT 6289 Bayesian Computation** (10 students, 3 Cr.), George Washington University graduate course.
- S2011 **STAT 544 Bayesian Statistics** (19 students, 3 Cr.), ISU graduate course.
- S2010 **STAT 544 Bayesian Statistics** (32 students, 2 sections, 3 Cr.), ISU graduate course.
- F2009 **STAT 326 Introduction to Business Statistics II** (146 students, 4 sections, 3 Cr.), ISU undergraduate course. Co-coordinated with U. Genschel (258 students, 7 sections).
- S2009 **STAT 544 Bayesian Statistics** (28 students, 3 Cr.), ISU graduate course.
- S2009 **LAS 290G Special Problems/Understanding Technical Risk: Culture and Analysis** (5 students, 1 Cr.), ISU undergraduate course. Co-taught with G. Wilson.
- F2008 **STAT 101 Principles of Statistics** (87 students, 2 sections, 4 Cr.), ISU undergraduate course.
- S1995 **STA 290 Case Studies in Applied Statistics**, Duke University graduate course. Co-taught with M. Lavine.

Short Courses

- 2008 A. Wilson, C. Anderson-Cook, M. Hamada, S. Vander Wiel, E. Lawrence. Statistical Methods for Core Surveillance, Los Alamos National Laboratory, Los Alamos, NM
- 2004 C. Anderson-Cook, A. Wilson, A. Koehler, T. Graves, C. Chiu. Integrated Reliability Assessment. U.S. Army Aviation and Missile Command, Huntsville, AL
- 2004 A. Wilson. Reliability Section Joint Nuclear Explosives Training Facility Surveillance Engineering Course, Los Alamos National Laboratory, Los Alamos, NM
- 2003 S. Keller-McNulty, A. Wilson, G. Wilson, A. Koehler. Information Integration Technologies for Complex Systems. Institute for Mathematics and Its Applications, University of Minnesota, Minneapolis, MN

- 2003 S. Keller-McNulty, N. Hengartner, A. Wilson, C. S. Reese. Integrated Reliability Assessment. Marine Corps Program Department, Fallbrook, CA
- 2002 A. Wilson, D. Leishman, C. S. Reese. Knowledge Integration for Decision Making. Army SMART Conference, Salt Lake City, UT
- 2000 A. Wilson, C. S. Reese, S. Keller-McNulty, M. Meyer, J. Booker, T. Bement, M. McNulty. Data, Knowledge, and Information Integration to Support Decision Making. U.S. Army Conference on Applied Statistics, Rice University, Houston, TX
- 1992 A. Wilson. DCRT 213: SAS Fundamentals II. National Institutes of Health, Bethesda, MD
- 1992 A. Wilson. DCRT 212: SAS Fundamentals I. National Institutes of Health, Bethesda, MD
- 1992 A. Wilson, F. Yamada. DCRT 256: Topics in S-PLUS. National Institutes of Health, Bethesda, MD

Educational Outreach

- 2003- National Youth Science Camp, Bartow, WV (www.nysc.org)
- 2018-2023 Professional Strategies Working Group, Department of Statistics, NC State University, Raleigh, NC
- 2020 Teamwork, Developing Business and Professional Skills for Graduate Students and Postdocs Virtual Event, Duke University, Durham, NC
- 2020 Harnessing Data for Decision Making, Office of Undergraduate Research Connect Power Hour, NC State University, Raleigh, NC
- 2020 Data Science, Discussion for Faculty and Students from Nagoya University, NC State University, Raleigh, NC
- 2018 Statistics and Big Science, Keynote, NC Science Olympiad, Raleigh, NC
- 2018 Women in Data Science Panel Discussion, WiDS Raleigh @ NC State, Raleigh, NC
- 2014 Interdisciplinary Collaborations between Government, Industry, and Academia. Korean-American Scientist and Engineering Association, North Carolina Chapter.
- 2011 EDGE@ISU presents Mathematics and Statistics Opportunities for Undergraduates. Iowa State University, Ames, IA
- 2010 Preparing Future Faculty: Returning to Academia. Iowa State University, Ames, IA.
- 2010 Statistics in Defense and Security. Iowa Alliance Mathematics/ Statistics Research Experience for Undergraduates, Iowa State University, Ames, IA
- 2008 National Alliance for Doctoral Studies in the Mathematical Sciences, Second Annual Iowa Mathematical Field of Dreams Conference. Iowa State University, Ames, IA
- 2006 Statistics and Big Science. StatFest 2006, University of Texas, El Paso

ADVISING AND MENTORING

- 2016- NCSU Cluster Faculty External Mentor
- 2014-2021 NCSU Department Faculty Research and Teaching Mentor
- 2016 NCSU Mentor-Ring Mentor

ORI Faculty Fellows

- 2020-2022 Emily Griffith
- 2022-2023 Daniela Jones

Postdoctoral Fellows

2019-2020 Christine Brugh
2017-2019 Eli Typhina
2016-2018 Héctor Rendón
2015-2017 Karl Pazdernik

Ph.D. Students

2023 Conor Artman, North Carolina State University, Department of Statistics, “Artificial Intelligence for Medicine and Social Good”
2023 Andrew Hollis, North Carolina State University, Department of Statistics, “Statistical Methods for Nonproliferation and Counterproliferation” (co-advisor R. Smith)
2022 Laura Wendelberger, North Carolina State University, Department of Statistics, “Robust Statistical Methods for Model Selection and Land Cover Change Monitoring” (co-advisor B. Reich)
2018 Milo Page, North Carolina State University, Department of Statistics, “Automated Data Imputation: Extending Low Rank Matrix Imputation Techniques For Statistical Prediction Modeling” (co-mentored by C. Gotwalt)
2017 Jordan Bakerman, North Carolina State University, Department of Statistics, “Twitter Analytics: Geotag Imputation, Forecasting, and Dynamic Variable Selection” (co-mentored by K. Pazdernik)
2017 Yiqing Tian, North Carolina State University, Department of Statistics, “Variable Selection in Logistic Regression with Applications” (co-advisor H. Bondell)
2016 Xiang Zhang, North Carolina State University, Department of Statistics, “Contributions to Statistical Methods for High-Dimensional and Dependent Data” (co-advisor L. Li)
2016 Zhen Han, North Carolina State University, Department of Statistics, “Statistical Methods for Relational Data: Visualization, Classification, and Topic Modeling on Networks”
2012 Roger Zoh, Iowa State University, Department of Statistics, “Using the Negative Log-Gamma Distribution for Bayesian System Reliability Assessment”
2011 Jiqiang Guo, Iowa State University, Department of Statistics, “Bayesian Methods for System Reliability and Community Detection”
2008 Kari Sentz, Binghamton University, Department of Systems Science and Industrial Engineering, “Methods of Probability and Imprecise Probability for Uncertainty Quantification in Applied Problems” (co-major professor G. Klir)

M.S. Students

2019 Jasme Lee, North Carolina State University, Department of Statistics, “Dose-Response Modeling of Quiet Sonic Boom Community Response Survey Data” (co-mentored by J. Rathsam)
2015 Hillary Graham, North Carolina State University, Department of Statistics, “Incorporating Concomitant Medications into Linear Models for Genome-Wide Association Studies” (co-mentored by D. Rotroff)
2011 Susan Vander Plas, Iowa State University, Department of Statistics, “Statistical Analysis of Atom Probe Mass Spectra”
2011 Matt Simpson, Iowa State University, Department of Statistics, “A Bayesian Analysis of an Exchange and Specialization Experiment”

- 2011 Erin Buchanan, Iowa State University, Department of Statistics, “Credible Intervals: Practical Applications in Energy Efficiency Impact Evaluation”
- 2011 Jing Li, Iowa State University, Department of Statistics, “Test Plans for Weibull Bayesian Assurance Testing in Reliability”
- 2010 Ralph Culver, Iowa State University, Department of Statistics, “Bayesian Analysis of Gauge R&R Data”
- 2010 Robert Foster, Iowa State University, Department of Statistics, “Simulation Analysis of a Bayesian Test Plan for Sequential Data from a Homogeneous Poisson Process”
- 2010 Randy Griffiths, Iowa State University, Department of Statistics, “Using Hierarchical Models to Find Test Plans for Binary Data”
- 2009 Roger Zoh, Iowa State University, Department of Statistics, “Comparison of Various Methods for Constructing Confidence Intervals for Two Multivariate Capability Indices in a Gauge R&R Study”

Ph.D. Committee Member

- 2023 Kasia Dobryzcka, North Carolina State University, Department of Statistics
- 2021 Bowen Liu, North Carolina State University, Department of Statistics
- 2021 Matthew Miller, North Carolina State University, Department of Statistics
- 2020 Katherine Allen Moyer, North Carolina State University, Department of Statistics
- 2020 Joyce Cahoon, North Carolina State University, Department of Statistics
- 2019 Arnab Chakraborty, North Carolina State University, Department of Statistics
- 2019 Bharat Balagopal, North Carolina State University, Department of Electrical and Computer Engineering
- 2019 Isaac Michaud, North Carolina State University, Department of Statistics
- 2018 Adam Amos-Binks, North Carolina State University, Department of Computer Science
- 2018 Jami Jackson Mulgrave, North Carolina State University, Department of Statistics
- 2018 Siddharth Rastogi, North Carolina State University, Textile Technology Management
- 2018 Joshua Day, North Carolina State University, Department of Statistics
- 2017 Brian Naughton, North Carolina State University, Department of Statistics
- 2016 Kelsey Gaisor, North Carolina State University, Biomathematics Graduate Program
- 2016 Priyam Das, North Carolina State University, Department of Statistics
- 2016 Yuan Zhang, North Carolina State University, Department of Electrical and Computer Engineering
- 2016 Sam Morris, North Carolina State University, Department of Statistics
- 2016 Reka Howard, Iowa State University, Department of Statistics
- 2016 Yan Dora Zhang, North Carolina State University, Department of Statistics
- 2015 Ryan Parker, North Carolina State University, Department of Statistics
- 2015 Bradley Turnbull, North Carolina State University, Department of Statistics
- 2015 Prithwish Bhaumik, North Carolina State University, Department of Statistics
- 2014 Emily Casleton, Iowa State University, Department of Statistics
- 2013 Jia Liu, Iowa State University, Department of Statistics
- 2013 Shiyao Liu, Iowa State University, Department of Statistics
- 2013 Amy Hoeksema, Iowa State University, Department of Statistics
- 2012 Karl Pazdernik, Iowa State University, Department of Statistics
- 2011 Cherie Alf Kientoff, Iowa State University, Department of Statistics
- 2011 Brian Weaver, Iowa State University, Department of Statistics

2010 Adam Pintar, Iowa State University, Department of Statistics

In progress

Adam Bolton, North Carolina State University, Department of Statistics

Khuzaima Hameed, North Carolina State University, Department of Statistics

Hyoshin Kim, North Carolina State University, Department of Statistics

Anil Radhakrishnan, North Carolina State University, Department of Physics

Constantino Raptis, North Carolina State University, Department of Textile
Technology Management

M. S. Committee Member

2015 Kaaviya Palanivel Kathirvel, North Carolina State University, Integrated Manufacturing
and Systems Engineering Institute

2014 Andrea Kaplan, Iowa State University, Department of Statistics

2010 Luke Fostvedt, Iowa State University, Department of Statistics

2010 Shiyao Liu, Iowa State University, Department of Statistics

2010 Amy Borgen, Iowa State University, Department of Statistics

2008 Brian Weaver, Iowa State University, Department of Statistics

Graduate Research Assistants

2021-2022 Kate Sanborn, Hyoshin Kim

2020-2021 Andrew Hollis, Kate Sanborn, Khuzaima Hameed

2019-2020 Andrew Hollis, Joyce Cahoon, Chris Edwards

2018-2019 Katherine Allen Moyer, Andrew Hollis, Jasme Lee, Todd Wilson, Caleb Weaver,
Joyce Cahoon

2017-2018 Katherine Allen Moyer, Jordan Bakerman, James Gilman, Nick Johnson, Jasme
Lee, Susheela Singh, Laura Wendelberger

2016-2017 Jordan Bakerman, James Gilman, Susheela Singh

2015-2016 Jordan Bakerman, Caleb Browning, James Gilman, Hillary Graham, Zhen Han,
Nick Meyer, Xiang Zhang

2014-2015 Caleb Browning, Nick Meyer, Merve Tekbudak

2013-2014 Andrea Kostura

Undergraduate Research Assistants

2019-2020 Kate Sanborn

2014-2015 James Gilman

NC State Park Scholar Mentor

2021-2023 Anika Bhadriraju

2019-2023 Katelyn McInerney

2018-2022 Shannon Pinnell

NC State Consulting Project Mentor

2016 Candice Park and Tian Guo, Survival Analysis of Faculty Retention

2014 Jennifer Ran Wei and Qianwen Tan, NC 4-H Evaluation Learning Circle

LANL Summer Students

- 2007 Brian Weaver, Iowa State University
- 2006 Brian Weaver, University of New Mexico
- 2003 Kristi O'Grady, North Carolina State University
- 2003 Morgan Harris, Virginia Military Institute
- 2001 Meng Xu, University of Idaho
- 2001 Andrew Swift, George Washington University

SERVICE

Institute for Defense Analyses

- 2013-2019 Institute for Defense Analyses Adjunct Research Staff Member and Faculty Fellow
- 2012 Baccalaureate Fellows Hiring Committee
- 2012 Research Associate Hiring Committee
- 2012 Research Staff Hiring Committee

Iowa State University, College of Liberal Arts and Sciences

- 2009-2011 College Diversity Committee
- 2010-2011 Senior Mentor, EDGE@ISU Mentoring Cluster (Enhancing Diversity in Graduate Education, Departments of Mathematics and Statistics)

Iowa State University, Department of Statistics

- 2011-2013 Collaborating Associate Professor, Department of Statistics, Iowa State University
- 2010-2011 Graduate Committee
- S2011 Seminar Chair
- 2010-2011 Department Diversity Representative
- 2009-2010 Curriculum Committee
- 2009-2010 PhD/MS Exam Committee
- 2008-2011 Iowa STAT-ers Advisor
- 2008-2010 Faculty Search Committee
- 2008-2009 Information Technology/System Administrator Search Committee
- 2008-2009 Computation Advisory Committee

Los Alamos National Laboratory

- 2000-2008 Technical Lead for DoD Programs, Statistical Sciences Group
- 2000-2008 Director of Student Programs, Statistical Sciences Group
- 2007 Los Alamos National Laboratory Laboratory-Directed Research and Development Exploratory Research in Computing and Information Sciences Peer-Review and Funding Committee
- 2005 Statistical Sciences Group Leader Search Committee
- 2003 Los Alamos National Laboratory Fellows Selection Committee
- 2003 Nuclear Design and Risk Analysis Group Leader Search Committee
- 2000-2002 Los Alamos National Laboratory Laboratory-Directed Research and Development Exploratory Research in Mathematics, Simulation, and Modeling Peer-Review and Funding Committee

North Carolina State University

2023- Research, Scholarship, and Creativity Information Technology Committee
2020- Research Data Security Compliance Steering Group
2014- Cluster Coordinator, Chancellor's Faculty Excellence Program in Data-Driven Science
2023 Research Computing Improvement Task Force
2023 Data Storage Strategic Task Force
2023 Organizing Committee, University Research Symposium on Putting Data Science into Practice: Emerging Role of AI
2022-2023 Search Committee, Executive Director for the Friday Institute of Educational Innovation and Associate Dean for Translational Research, College of Education
2022-2023 Search Committee, Faculty Position in Artificial Intelligence, College of Agriculture and Life Sciences
2022-2023 Search Committee, Director of the Office of Undergraduate Research
2021-2022 Analytics Hub Steering Team
2019-2022 University Standing Committee on Commencement
2021 Research Task Force Co-Chair, Post COVID-19 Innovation Task Force
2021 Search Committee Chair, Data Science Academy Executive Director
2021 Search Committee Chair, Data Science Academy Teaching Postdoctoral Fellows
2017-2021 GLBT Advocate Program
2020 Research Computing and Data Service Team
2019-2020 Search Committee Chair, Data-Driven Science Cluster
2014-2019 Director (2019), Associate Director (2014-2018), Data Science Initiative, Office of Research and Innovation
2015-2017 Associated Faculty, Department of Computer Science
2016 Task Force for Interdisciplinary and Joint Faculty Review
2014-2017 University Standing Committee on Commencement
2014-2017 University Diversity Advisory Committee
2013-2016 Search Committee, Data-Driven Science Cluster

North Carolina State University, Department of Statistics

2019 Qualifying Exam Committee
2018-2019 Faculty Search Committee
2017-2018 Seminar Committee
2016-2017 Department Head Search Committee
2014-2015 Big Data Committee
2014-2015 Faculty Search Committee
2013-2015 Preliminary Exam Committee (Chair, 2014-2015)

National Academies of Sciences, Engineering, and Medicine

2023-2024 Committee on Statistical and Data-Driven Methods for Additive Manufacturing Qualification--Future Directions and Opportunities in Materials and Models: A Workshop
2021-2024 Committee for Emerging Trends in Aviation Safety

2018-2024	Committee on Applied and Theoretical Statistics
2021-2023	Committee on Risk Analysis Methods for Nuclear War and Nuclear Terror
2021	Panel on Review of Selected Divisions of the National Institute of Standards and Technology Information Technology Laboratory
2019-2021	Committee for Improving Defense Acquisition Workforce Capability in Data Use
2017	Committee on Learning from the Science of Cognition and Perception for Decision Making: A Workshop
2012-2014	Committee on Integrating Humans, Machines and Networks: A Global Review of Data-to-Decision Technologies
2011-2012	Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army, Phase 3
2010-2012	Committee on Mathematical Foundations of Validation, Verification, and Uncertainty Quantification
2008-2011	Panel on Industrial Methods for the Effective Testing and Development of Defense Systems
2010	Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army, Phase 2
2009	Committee to Review the Testing of Body Armor Materials for Use by the U.S. Army, Phase 1
2006-2007	Panel on Methodological Improvement to the Department of Homeland Security's Biological Agent Risk Analysis
2002-2003	Panel on the Operational Test Design and Evaluation of the Interim Armored Vehicle

National Laboratories

2008-	Guest Scientist, Statistical Sciences Group, Los Alamos National Laboratory
2022-2026	Los Alamos National Laboratory Science of Signatures (SoS) Capability Review Committee
2023-2028	Pacific Northwest National Laboratory National Security Directorate Advisory Committee
2024	Review Panel, Framework for Evaluating Radical New (Safeguards) Scenarios, Pacific Northwest National Laboratory
2021-2022	Pacific Northwest National Laboratory Chemical Dynamics Initiative Review Committee
2008-2018	Sandia National Laboratories, Predictive Engineering Science Panel
2010	Invited Participant, Defense Threat Reduction Agency/Sandia National Laboratories Workshop on Challenges in Computational Social Science

Organizational Reviews and Panels

2023-	U.S. Military Academy at West Point Applied Statistics and Data Science Advisory Board
2023	University of Virginia, Biocomplexity Institute Review Committee
2022	Department of Energy, Office of Defense Nuclear Nonproliferation Independent Review for Next-Generation AI for Next-Generation Nuclear Assessment
2022	Department of Energy, Office of Defense Nuclear Nonproliferation Independent Review of Sequential Bayesian Approach to Warhead Verification

2017-2021	National Center for Atmospheric Research, Computational Information Systems Laboratory Advisory Panel
2020	Brigham Young University, External Review Committee, Department of Statistics
2013-2015	Bowling Green State University, Department of Mathematics and Statistics Computational Mathematics and Statistics Advisory Board
2013	Department of Energy, Applied Mathematics Program Committee of Visitors
2013	Department of Energy, Office of Science Advanced Scientific Computing Research Crosscutting Requirements Review
2009-2011	Department of Energy, University of Michigan Predictive Science Academic Alliance Program Review Panel
2008	Naval Postgraduate School, Chief of Naval Operations Distinguished Fellows Workshop on Critical Infrastructure Vulnerability, Naval Postgraduate School
2006	Department of Energy, Office of Science Workshop on Mathematical Research Challenges in Optimization of Complex Systems
2006	Department of Energy, Office of Nuclear Energy and Office of Advanced Scientific Computing Research, Simulation and Modeling for Advanced Nuclear Energy Systems Workshop, Sub-committee Co-Chair
2008	Department of Energy, Office of Science Applied Mathematics Research Program, Workshop on Mathematical Issues for Petascale Data Sets, Organizing Committee and Invited Participant

Professional Societies

2024-2026	Canadian Statistical Sciences Institute Scientific Advisory Committee
2024-2026	American Statistical Association, Samuel S. Wilks Memorial Awards Committee
2018-2025	National Institute for Statistical Sciences Board of Trustees, Chair (2023-2025), Executive Committee (2021-2025), Finance Committee (2018-2020, 2023-2025)
2021-2024	International Society for Business and Industrial Statistics (ISBIS) Council, International Statistical Institute
2023	Society for Industrial and Applied Mathematics Task Force on the Future of Computational Science
2019-2021	American Statistical Association, Vice Chair, Council of Sections
2016-2020	American Association for the Advancement of Science, Secretary, Section U (Statistics)
2013-2018	American Statistical Association, Council of Sections Representative, Section on Statistics in Defense and National Security
2010-2012	American Statistical Association, Nomination Committee, Section on Bayesian Statistical Sciences
2009-2011	American Statistical Association, <i>Techometrics</i> Management Committee
2009-2011	American Statistical Association, Program Chair-Elect, Program Chair, Past Program Chair, Section on Bayesian Statistical Sciences (2010 JSM Program Committee)
2009-2010	American Statistical Association Working Group on Strategic Plan Focus: Visibility and Impact in Policy Making
2008-2010	American Statistical Association, Speakers Committee Chair, Section on Statistics in Defense and National Security

2006-2008 American Statistical Association, Chair-Elect, Chair, Past Chair, Section on Statistics in Defense and National Security
 2006 Chair, American Statistical Association President's Task Force on Statistics in Defense and National Security
 2004-2005 American Statistical Association, Secretary/Treasurer/Webmaster, Section on Statistics in Defense and National Security
 2002-2003 American Statistical Association, President, Albuquerque Chapter
 2001-2002 American Statistical Association, Vice-President, Albuquerque Chapter
 2000-2005 American Statistical Association, Committee on Statisticians in Defense and National Security

Conference

2022-2023 Singpurwalla Memorial Symposium on New Frontiers in Reliability and Risk Analysis Organizing Committee
 2018-2023 Defense and Aerospace Test and Analysis Workshop (DATAWorks)
 2020-23 Technical Program Committee
 2019 Co-Chair Committee
 2018 ASA/SDNS General Chair
 2019 Organizer, Data Science and Big Data Workshop, University and Global Partnership Network, Raleigh, NC
 2017 Advisory Committee, Science of Test Workshop
 2000-2016 Army Conference Applied Statistics/Conference on Applied Statistics in Defense
 2000-2016 Executive Committee
 2016 Chair, Organizing Committee
 2014 Program Chair
 2001 Local Organizer, Santa Fe, NM
 2016 Organizer, Invited Panel, Public-Private Partnerships to Accelerate Innovation in Intelligence Analysis, American Association for the Advancement of Science Meeting, Washington, DC
 2015 Organizing Committee, Institute for Computational and Experimental Research in Mathematics (ICERM) Workshop on Data Science
 2014 Organizing Committee, Department of Energy Conference on Data Analysis, Santa Fe, NM
 2014 Organizing Committee, Women in Statistics Conference, Cary, NC
 2012 Organizer, Invited Session, "Reliability for Complex Systems" for Quality and Productivity Research Conference, Long Beach, CA
 2010 Program Committee, Joint Statistical Meetings, Vancouver, BC
 2010 Program Committee, Eastern North American Region/International Biometric Society
 2010 Organizer, Invited Session, "Bayesian Analysis Invited Session" for Joint Statistical Meetings, Vancouver, BC
 2009 Program Committee, Sixth International Symposium on Imprecise Probabilities and Their Applications
 2009 Organizer, Invited Session, "Quantitative Methods for Combating Bioterrorism" for Joint Statistical Meetings, Washington, DC

- 2007 Organizer, Invited Session, “Advances in System Reliability” for Joint Statistical Meetings, Salt Lake City, UT
- 2005 Organizer, Invited Session, “Experiment Planning Issues in System Reliability” for Design and Analysis of Experiments Conference, Santa Fe, NM
- 2005 Organizer, Invited Session, “Statistical Methods for Defense Applications” for Spring Research Conference on Statistics in Industry and Technology, Park City, UT
- 2004 Co-Organizer, Mathematical Methods in Reliability Conference, Santa Fe, NM
- 2002 Organizer, Invited Session, “Minimizing the Magic: Transforming Knowledge Representations into Statistical Models” for Spring Research Conference on Statistics in Industry and Technology, Ann Arbor, MI

Editorial

- 2018-2021 Associate Editor, *Harvard Data Science Review*
- 2018 Guest editor for *Chance* special issue (April 2018) on defense and national security (with D. Banks)
- 2012-2014 Associate Editor, *Journal of Uncertainty Quantification*
- 2011-2013 Reviews Editor of the *Journal of the American Statistical Association* and *The American Statistician*
- 2010-2012 Managing Editor, *Bayesian Analysis*
- 2008-2010 Associate Editor for Reviews, *Journal of the American Statistical Association* and *American Statistician*
- 2006 Guest editor for *Statistical Science* special issue on reliability (with S. Keller-McNulty and C. Anderson-Cook)

Review and Referee

National Science Foundation, Department of Energy Office of Science, National Academies of Sciences, Engineering, and Medicine, Army Research Office, American Association for the Advancement of Science, John Wiley & Sons, Taylor & Francis, Springer, *Applied Stochastic Models in Business and Industry*, *Bayesian Analysis*, *Chinese Journal of Aeronautics*, *CRC Press*, *Harvard Data Science Review*, *IEEE Transactions on Engineering Management*, *IEEE Transactions on Fuzzy Systems*, *IEEE Transactions on Medical Imaging*, *International Journal of Approximate Reasoning*, *International Journal of General Systems*, *Journal of the American Statistical Association*, *Journal of Statistics Education*, *Mathematical Geology*, *Naval Research Logistics*, *Notices of the American Mathematical Society*, *Quality Engineering*, *Quality and Reliability Engineering International*, *Reliability Engineering and System Safety*, *Risk Analysis*, *South African Statistical Journal*, *Springer*, *Stat*, *Statistical Science*, *Statistics in Medicine*, *Technometrics*

UNREFEREED PUBLICATIONS

Software Packages

- L. Wendelberger, J. Gray, B. Reich, A. Wilson, S. Holloway (2022). roboBayes: Robust Online Bayesian Monitoring, <https://cran.r-project.org/web/packages/roboBayes/index.html>.

Book Reviews

- A. Wilson (2013). Web Development with SAS by Example, 3rd ed. *The American Statistician* 67(2): 113.
- A. Wilson (2010). Review of Bayesian Evaluation of Informative Hypotheses edited by H. Hoijtink, I. Klugkist, P. Boelen. *Journal of the American Statistical Association* 105(489): 438.
- A. Wilson (2009). Review of Bayesian Networks and Decision Graphs, 2nd Edition by F. Jensen and T. Nielsen. *Journal of the American Statistical Association* 104(485): 410.

Conference Proceedings

- N. Spruill, A. Wilson, E. Seglie (2008). Statistics in Defense and National Security: The Present—You Need More Than Statistics—You Need the Right Statistics. *Proceedings of the Section on Statistics in Defense and National Security*, American Statistical Association, Denver, CO
- A. Wilson, C. Anderson-Cook (2007). Analysis and Data Collection Strategies for Multilevel Complex Systems. *Proceedings of the 2007 Mathematical Methods in Reliability Conference*, Glasgow, UK
- K. Sentz, A. Wilson (2005). Fault Tree Uncertainty Quantification Using Probabilities and Belief Structures on Basic and Non-Basic Events. *Proceedings of the North American Fuzzy Information Processing Society*, Ann Arbor, MI
- N. Hengartner, A. Wilson (2004). Stockpile Reliability Assessment. *Proceedings of the 2004 Mathematical Methods in Reliability Conference*, Santa Fe, NM
- C. S. Reese V. Johnson, M. Hamada, A. Wilson (2004). A Hierarchical Model for System Reliability Based on Lifetime Data. *Proceedings of the 2004 Mathematical Methods in Reliability Conference*, Santa Fe, NM
- A. Wilson, S. Keller-McNulty (2003). Uncertainty Quantification for Complex Engineered Systems. *Proceedings of JANNAF 39th Combustion/27th Airbreathing Propulsion/21st Propulsion Systems Hazards/3rd Modeling and Simulation Joint Subcommittee Meeting*, Colorado Springs, CO
- A. Wilson (2002). Integrating Information Using Belief Functions. *Proceedings of Mathematical Methods in Reliability 2002*, Trondheim, Norway
- H. Martz, M. Hamada, C. S. Reese, A. Wilson (2002). Using Genetic Algorithms to Design Bayesian Reliability Experiments. *Proceedings of Mathematical Methods in Reliability 2002*, Trondheim, Norway
- J. Booker, S. Keller-McNulty, M. Meyer, C. S. Reese, A. Wilson (2001). Probabilistic Information Integration Technology. *Proceedings of the 6th Annual Conference on Turbine Engine High Cycle Fatigue*, Jacksonville, FL
- A. Wilson. Discussion of Practical Inferences for Decision Making in Industrial Applications (1997). *Proceedings of the Section on Statistical Education*, American Statistical Association, Anaheim, CA
- C. McCulloch, J. Laading, A. Wilson, V. Johnson (1996). A Shape-Based Framework for Automated Image Segmentation. *Proceedings of the Section on Bayesian Statistical Science*, American Statistical Association, Chicago, IL
- A. Wilson, V. Johnson, S. Pizer, D. Fritsch, L. Yu, E. Chaney (1996). Towards a Framework for Automated Image Analysis. *Proceedings of the Leeds Annual Statistical Workshop: Image Fusion and Shape Variability Techniques*, Leeds, UK

- A. Wilson, V. Johnson, L. Yu, S. Pizer (1995). Scale-Space Image Models for Shape Deformation. *Proceedings of the 27th Symposium on the Interface: Computing Science and Statistics*, Interface Foundation of North America, Pittsburgh, PA
- A. Wilson, V. Johnson (1994). Priors on Scale-Space Templates. *Proceedings of Mathematical Methods in Medical Imaging III, International Society for Optical Engineering (SPIE)*, Bellingham, WA
- A. Wilson, V. Johnson (1994). Using Features to Model Prior Structural Information. *Proceedings of the Section on Statistics in the Physical and Engineering Sciences*, American Statistical Association, Toronto, CA
- A. Wilson, J. Malley, J. Pfeifer, A. Petelin (1992). Remarks on the Gibbs Sampler and its Implementation on a Parallel Machine. *Proceedings of the Statistical Computing Section*, American Statistical Association, Boston, MA

Discussion Papers

- A. Wilson, M. Morris (1999). Statistical Methods to Validate the National Missile Defense Battle Management Command and Control Software: Summary of Presentation at U.S. Army Conference on Applied Statistics. LA-UR-99-5793.
- C. McCulloch, J. Laading, A. Wilson, V. Johnson (1996). A Shape-Based Framework for Automated Image Segmentation. Duke University ISDS Discussion Paper 96-31.
- A. Wilson, V. Johnson (1994). Priors on Scale-Space Templates. Duke University ISDS Discussion Paper 94-12.
- A. Wilson (1994). Cognitive Factors Affecting Subjective Probability Assessment. Duke University ISDS Discussion Paper 94-02.

PRESENTATIONS

Invited/Seminar

- 2024 From Theory to Practice: Transforming Analytics with Cutting-Edge Research, North Carolina State University Business Analytics Initiative Roundtable, Raleigh, NC
- 2024 Statistics, Data Analytics, and AI: A Primer, Workshop on Statistical and Data-Driven Methods for Additive Manufacturing Qualification, National Academy of Science, Engineering, and Medicine, Irvine, CA
- 2024 Artificial Intelligence at NC State, Defense Alliance of North Carolina Data Decoded: Defense Opportunities in North Carolina's AI Landscape, Raleigh, NC
- 2023 Science in the Age of Generative AI Panel, ORNL Core Universities AI Workshop, Georgia Tech, Atlanta, GA
- 2023 A Statistician's Journey: From Bayes to AI, ORNL Core Universities AI Workshop, Georgia Tech, Atlanta, GA
- 2023 AI@NC State Hot Topics: When do we stop? AI and Ethics, NC State Data Science Academy, Raleigh, NC
- 2023 The Impact of Artificial Intelligence Technologies on Quality and Statistics, Fall Technical Conference, Raleigh, NC
- 2023 Panel on Regional Leadership, Raleigh-Austin Intercity Visit, Raleigh, NC
- 2023 Lunchtime Panel on Collaboration, New Mexico American Statistical Association Annual Meeting, Santa Fe, NM

- 2023 Demystifying Data Science, New Mexico American Statistical Association Annual Meeting, Santa Fe, NM
- 2023 DoD Funding at NC State (two-webinar series), North Carolina State University
- 2023 Panel on Strategies for Planning, Placing, and Pitching Data Science Resources in Higher Education, webinar follow up to the Alfred P. Sloan Workshop on Modeling Data Science Consulting in Higher Education
- 2023 Information Environment for Research and NC State and the Laboratory for Analytic Sciences, Institute for Defense and Business
- 2023 Undergraduate Research, GRAD-Future Workshop, North Carolina State University
- 2023 Conversation about Foundational Ideas in Artificial Intelligence, University Research Symposium, North Carolina State University
- 2022 Research Leadership Academy Lunch and Learn on Exploring External Awards, North Carolina State University
- 2022 Data Science and Defense at North Carolina State University, STR Analytics Seminar Series (str.us)
- 2022 Data Science and Interdisciplinary Collaboration, Climate Informatics 2022, North Carolina Institute for Climate Studies, Asheville, NC
- 2022 Plenary Panel, Open Climate Data Science Workshop, North Carolina Institute for Climate Studies and North Carolina Climate Office
- 2022 Information Environment for Research and NC State and the Laboratory for Analytic Sciences, Institute for Defense and Business
- 2021 Plenary Welcome, NASA iTECH Cycle II Forum, North Carolina State University
- 2021 Facets of a Diverse Career, Plenary Speaker at JMP Discovery Summit Americas
- 2021 Plenary Panel on Diversifying Workforce, 3rd National Oceanic and Atmospheric Administration Artificial Intelligence Workshop
- 2021 Data Science at NC State, Data Economy Committee, Board of Science, Technology, and Innovation, Department of Commerce, State of North Carolina
- 2021 Data Science is for Everyone. 20th Annual Social Equity Leadership Conference, National Academy of Public Administration
- 2020 What is Big Data and What Does it Mean? Big Data and Artificial Intelligence in Toxicology, Genetics and Environmental Mutagenesis Society of North Carolina Fall Meeting
- 2020 Big Data: What is It? And What Does it Mean to Me? Webinar for the Scientific Liaison Coalition (<https://www.toxicology.org/slc.asp>), with Aric LaBarr
- 2020 Data Science Primer, Webinar for National Academies of Sciences, Engineering, and Medicine's Committee for Improving Defense Acquisition Workforce Capability in Data Use
- 2019 Demystifying Data Science, North Carolina Women in Machine Learning and Data Science, Research Triangle Park, NC
- 2019 Laboratory for Analytic Sciences Overview, Intelligence Community Academic Research Symposium, Washington, DC, with Jen Banwart
- 2019 Data Science and Analytics: What is It? Environmental Protection Agency, Raleigh, NC, with Aric LaBarr
- 2019 Combining Information to Assess the Reliability of Complex Systems, Joint Statistical Meetings, Denver, CO

- 2019 Data Science in Defense and National Security, Emerging Data Science Methods for Complex Biomedical and Cyber Data, Augusta, GA
- 2018 SPAIG Award Collaboration: Laboratory for Analytic Sciences, Joint Statistical Meetings, Vancouver, BC
- 2018 Partnering for Data Science: The Laboratory for Analytic Sciences, 2018 Symposium on Data Science and Statistics, Reston, VA
- 2018 Demystifying Data Science, Defense and Aerospace Test and Analysis Workshop (DATAWorks 2018), Springfield, VA
- 2017 Data Science at the Laboratory for Analytic Sciences, RTI Data Science Lunch and Learn, Research Triangle Park, NC
- 2017 Data Science at NC State, ORIED Thought Leaders Program on Data Science, Raleigh, NC
- 2017 Bayesian Methods for Defense and Security, NASA-Langley, Hampton, VA
- 2017 Data Analytics and National Security, National Nuclear Security Administration, Department of Energy, Washington, DC
- 2017 Panel on How to Introduce Management to Bayesian Reliability, Joint Statistical Meetings, Baltimore, MD
- 2017 Statistics and Data Science in Defense and Security, Smith College, Northampton, MA
- 2017 Introduction to Bayesian Statistics Tutorial, Science of Test Workshop, Springfield, VA
- 2017 Bayesian Analysis, Statistical Engineering Leadership Webinar
- 2016 Assurance Testing or Reliability, Quality and Productivity Research Conference, Phoenix, AZ
- 2016 Leading a Data Analytics Workforce, Panel Discussion, Cisco Data Science for Leaders, Video-Telepresence from Raleigh, NC
- 2016 Combining Information for Reliability Assessment, Rigorous Test and Evaluation for Defense, Aerospace, and National Security, Alexandria, VA
- 2016 Developing a Data-Driven Organization, Keynote Panel, Data 4 Decisions Conference and Exposition, Raleigh, NC
- 2016 Bayesian Reliability: Combining Information, Plenary Talk at Stu Hunter Research Conference, Waterloo, Ontario, CA
- 2016 Combining Information to Assess System Reliability, Sandia Statistical Sciences Colloquium Series, Albuquerque, NM
- 2016 Data Science Initiatives at North Carolina State University, Cisco Analytics Speaker Series, Video-Telepresence from Raleigh, NC
- 2015 Introduction to Data Science: An Interdisciplinary Course for Undergraduates, Joint Statistical Meetings, Seattle, WA
- 2015 Infusing Bayesian Thinking in Collaborative Projects, Roundtable Breakfast, Section on Physical and Engineering Sciences, Joint Statistical Meetings, Seattle, WA
- 2015 Combining Information for Uncertainty Quantification, INFORMS Roundtable, Jackson Hole, WY
- 2015 Estimating System Reliability from Heterogeneous Data, Mathematical Methods in Reliability, Tokyo, Japan
- 2015 Combining Information to Assess System Reliability, Department of Statistics, University of South Carolina, Columbia, SC
- 2014 Research at the Laboratory for Analytic Sciences, Virginia Bioinformatics Institute at Virginia Tech Arlington, VA

- 2014 Combining Information to Assess the Reliability of DoD Systems, Joint Research Conference on Statistics in Quality, Industry, and Technology, Seattle, WA
- 2014 Combining Information to Assess System Reliability, Data Mining in Business in Industry, International Symposium on Business and Industrial Statistics/Conference of the ASA Section on Statistical Learning and Data Mining, Durham, NC
- 2014 Panel on Working in Interdisciplinary Teams, Conference on Women in Statistics, Cary, NC
- 2014 Panel on Career Flexibility, Conference on Women in Statistics, Cary, NC
- 2014 Panel on Big Data: When More is Too Much, Chancellors Faculty Excellence Program Symposium, North Carolina State University, Raleigh, NC
- 2014 Combining Information in Engineering Statistics. College of Textiles, North Carolina State University, Raleigh, NC
- 2014 Bayesian Approaches to Combining Information for Reliability Assessment. IEEE Eastern North Carolina Section Seminar, Raleigh, NC
- 2013 Bayesian Methods in Defense and Security. Duke University, Durham, NC.
- 2013 Bayesian Reliability Applications in the Department of Defense. Quality and Productivity Research Conference, Niskayuna, NY
- 2013 Bayesian Models for Community Detection. Brown Bag Lunches at IDA Science and Technology Policy Institute and System Evaluation Division, Washington, DC and Alexandria, VA
- 2012 Bayesian Methods for Estimating System Reliability Using Heterogeneous Multilevel Information. Conference on Data Analysis, Santa Fe, NM (with Jiqiang Guo)
- 2011 Bayesian Reliability. Roundtable Luncheon, Section on Quality and Productivity, Joint Statistical Meetings, Miami, FL
- 2011 Collaborations Between Iowa State University and Los Alamos and Sandia National Laboratories. Joint Statistical Meetings, Miami, FL.
- 2011 Bayesian Methods for Complex Systems. Marketing Colloquium Distinguished Speaker Series, Iowa State University, Ames, IA
- 2010 Strengthening Quantitative Literacy Using Case-Based Learning. Problem-Solving Faculty Learning Community, Iowa State University, Ames, IA
- 2010 Statistical Challenges from Science-Based Stockpile Stewardship. Institute for Defense Analysis Center for Communications Research, La Jolla, CA
- 2010 Introduction to Bayesian Reliability. Fall Technical Conference, Birmingham, AL
- 2010 Bayesian Methods for Estimating the Reliability of Complex Systems using Heterogeneous Multilevel Data. University of Minnesota, Minneapolis, MN
- 2010 Assessing the Methodology for Testing Body Armor. Joint Statistical Meetings, Vancouver, BC
- 2010 Statistics Methods Used in Defense and Non-Defense Applications. Invited Panel, Joint Statistical Meetings, Vancouver, BC
- 2010 Bayesian Methods for Estimating the Reliability of Complex Systems using Heterogeneous Multilevel Data. Simon Fraser University, Vancouver, BC
- 2009 Planning Surveillance for a Stockpile that Might Degrade. Invited Poster, Joint Statistical Meetings, Washington, DC
- 2009 Terrorist Risk Assessment. Joint Statistical Meetings, Washington, DC
- 2009 Statistical Challenges from Science-Based Stockpile Stewardship. University of Iowa, Iowa City, IA

- 2009 Statistical Challenges from Science-Based Stockpile Stewardship. Texas A&M University, College Station, TX
- 2008 Bayesian Reliability Analysis. Interface 2008 Risk: Reality. Durham, NC
- 2008 Reliability Case Study. U. S. Military Academy Department of Mathematical Sciences 2008 Statistics Workshop: Real Data and the Art of Statistical Analysis, West Point, NY
- 2007 How DHS Currently Manages Risk. RISK: Policy, Perception, and Practice Workshop, Statistical and Mathematical Sciences Institute, Research Triangle Park, NC
- 2007 Joint Munitions Program Munitions Stockpile Reliability Assessment Project. Los Alamos National Laboratory Joint Munitions Program Seminar Series, Los Alamos, NM
- 2007 Increasing Understanding of the Need for Statistics in Defense and Security. Roundtable Luncheon, Section on Statistics in Defense and National Security, Joint Statistical Meetings, Salt Lake City, UT
- 2007 Risk Analysis at Los Alamos National Laboratory. Joint Statistical Meetings, Salt Lake City, UT
- 2006 Bayesian Reliability. Roundtable Luncheon, Joint Statistical Meetings, Seattle, WA
- 2006 Systems Reliability and Experiment Planning. Interface 2006, Pasadena, CA.
- 2006 Next Generation Stockpile Reliability Methods. National Nuclear Security Administration Technical Seminar, Washington, DC
- 2006 Next Generation Stockpile Reliability Assessment. National Nuclear Security Administration Surveillance Policy Integrated Requirements Council, Albuquerque, NM
- 2005 System Reliability and Experiment Planning. U.S. Army Conference on Applied Statistics, Monterey, CA
- 2005 Experiment Planning Issues in System Reliability. Design and Analysis of Experiments Conference 2005, Santa Fe, NM
- 2005 Bayesian Reliability Analysis for Complex Systems. Joint Statistical Meetings, Minneapolis, MN
- 2005 Reliability Reporting. W88 Annual Assessment Director's Briefing, Los Alamos National Laboratory
- 2005 Reliability Initiatives. W76 Annual Assessment Director's Briefing, Los Alamos National Laboratory
- 2004 Techniques for Test Design in the Context of Staged Acquisition. National Research Council Workshop on Spiral Acquisition, Washington, DC
- 2004 An Overview of Uncertainty in the V&V Context. Foundations 2004: A V&V Workshop, Phoenix, AZ
- 2004 Predicting Operational Reliability with Quantified Confidence from Limited System Data. Putting the "E" in T&E, International Test and Evaluation Association, Baltimore, MD
- 2004 Stockpile Reliability Assessment. ISBA World Meeting, Viña del Mar, Chile
- 2004 Munitions Stockpile Reliability Assessment. Los Alamos National Laboratory High Explosives Working Group, Los Alamos, NM
- 2004 Statistics in Defense and National Security at Los Alamos National Laboratory. Chesapeake Bay Chapter, American Statistical Association, Aberdeen, MD
- 2004 Statistics in Defense and National Security at Los Alamos National Laboratory. Virginia Military Institute, Lexington, VA
- 2003 Opportunities at Los Alamos National Laboratory. Virginia Military Institute, Lexington, VA

- 2003 Assessing Risks for Complex Systems: A Case Study in Missile Defense. Joint Statistical Meetings, San Francisco, CA
- 2002 Combining Information. National Research Council Panel on the Operational Evaluation of the Interim Armored Vehicle
- 2002 Integrating Information Using Belief Functions. Mathematical Methods in Reliability 2002, Trondheim, Norway
- 2002 Statistical Methods for Information Integration. Spring Research Conference on Statistics in Industry and Technology, Ann Arbor, MI
- 2002 Statistics in Defense and National Security. Brigham Young University, Provo, UT
- 2002 Discussion of Information Integration using Belief Functions. Los Alamos Workshop on Novel Approaches to Uncertainty Quantification, Los Alamos, NM
- 2001 Data, Information, and Knowledge Integration for Department of Defense Problems. Joint Statistical Meetings, Atlanta, GA
- 2001 Integrated Analysis of Computer and Physical Experiments. Spring Research Conference on Statistics in Industry and Technology, Roanoke, VA
- 2001 Information Integration Technology. Risk-Based Design Seminar Series, NASA-Langley, Hampton, VA
- 2001 Information Integration Technology. Uncertainty Quantification Working Group, Sandia National Laboratories, Albuquerque, NM
- 2001 Information Integration Technologies. Basic and Applied Simulation Sciences Group, Los Alamos National Laboratory, Los Alamos, NM
- 2001 Quantifying Uncertainty Using Information Integration Technology. Workshop on Uncertainty in Design, Analysis, and Certification of Engineering Systems, Albuquerque, NM
- 2000 Data and Information Integration. Roundtable Luncheon at the Joint Statistical Meetings, Indianapolis, IN
- 2000 Statistical Approaches to DoD Problems at Los Alamos National Laboratory. RAND, Santa Monica, CA
- 2000 Statistical Methods to Validate Command and Control Software. Joint Research Conference on Statistics in Quality, Industry, and Technology, Seattle, WA
- 2000 Data, Knowledge, and Information Integration to Support Decision Making. Military Operations Research Society Education Symposium, McLean, VA
- 1996 A Bayesian Image Model for Automated Feature Identification. Joint Statistical Meetings, Chicago, IL
- 1994 Using Features to Model Prior Structural Information. Spring Research Conference on Statistics in Industry and Technology, Chapel Hill, NC

Contributed

- 2015 Estimating Mission Reliability from Heterogeneous Data. Conference on Applied Statistics in Defense, George Mason University, Fairfax, VA
- 2003 Uncertainty Quantification for Complex Engineered Systems. JANNAF 39th Combustion/27th Airbreathing Propulsion/21st Propulsion Systems Hazards/3rd Modeling and Simulation Joint Subcommittee Meeting, Colorado Springs, CO
- 2003 Information Integration for Stockpile Surveillance. U.S. Army Conference on Applied Statistics, Napa, CA

- 2002 Munitions Stockpile Reliability Assessment. U.S. Army Conference on Applied Statistics, Raleigh, NC
- 2001 Information Integration Technology for Reliability Assessment. 69th MORS Symposium, Annapolis, MD
- 2000 Information Integration: An Integration of Computer and Experimental Data with Expert Opinions. Poster at Threat Reduction Science and Technology Showcase at Los Alamos, Los Alamos, NM
- 2000 Information Integration: An Integration of Computer and Experimental Data with Expert Opinions. Poster at Celebrating Scientific Excellence Through Diversity At LANL, Los Alamos, NM
- 1999 Validating Control System Software. Poster at the Third Annual DOE/MICS Workshop, Los Alamos, NM
- 1999 Statistical Methods to Validate the National Missile Defense Battle Management Command and Control Software. U.S. Army Conference on Applied Statistics, West Point, NY
- 1998 Modeling Error in Probability-of-Kill Tables. U.S. Army Conference on Applied Statistics, Las Cruces, NM
- 1997 Discussion of Practical Inferences for Decision Making in Industrial Applications. Joint Statistical Meetings, Anaheim, CA
- 1996 Statistical Models for Shapes and Deformations. Special contributed paper for Savage Award session. Joint Statistical Meetings, Chicago, IL
- 1995 Models for Shape Deformation. Poster at the Fifth Valencia International Meeting on Bayesian Statistics, Alicante, Spain
- 1994 Priors on Scale-Space Templates. International Symposium on Optics, Imaging, and Instrumentation, San Diego, CA
- 1992 Remarks on the Gibbs Sampler and its Implementation on a Parallel Machine. Joint Statistical Meetings, Boston, MA

LEADERSHIP AND MANAGEMENT TRAINING

- 2018 Project Management Professional Certification Training
- 2014 Leadership for a Diverse Campus, North Carolina State University
- 2012 Task Leader Training, Institute for Defense Analyses
- 2006 Los Alamos National Laboratory Management Institute: Situational Leadership, Coaching Skills for Managers, Strategic Project Thinking, Managing Change, Managing Technical Professionals in Organizations
- 2006 Project Management Toolkit, Los Alamos National Laboratory

CERTIFICATIONS

- 2018- Project Management Professional (PMP)
- 2010- Accredited Professional Statistician (PStat)