

Michael R. Kosorok

CURRICULUM VITAE

OFFICE ADDRESS:

Department of Biostatistics
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EDUCATION:

1988	Brigham Young University, Provo, Utah, B.M. Music Composition, Magna cum laude
1988	Brigham Young University, Provo, Utah, M.S. Statistics
1991	University of Washington, Seattle, Washington, M.S. Biostatistics
1991	University of Washington, Seattle, Washington, Ph.D. Biostatistics;
1999	University of Wisconsin, Madison, Wisconsin, M.M. Music Composition

PROFESSIONAL EXPERIENCE:

1992	Senior Fellow, Department of Biostatistics, University of Washington, Seattle, Washington
1992-1998	Assistant Professor, Departments of Statistics and Biostatistics, University of Wisconsin, Madison, Wisconsin (UW-Madison)
1992-1997	Biostatistician, General Clinical Research Center, UW-Madison
1992-2006	Member, University of Wisconsin Comprehensive Cancer Center, UW-Madison
1993-1998	Affiliate Assistant Professor, Department of Pediatrics, UW-Madison
1998-2003	Associate Professor, Departments of Statistics and Biostatistics & Medical Informatics, UW-Madison
1998-2003	Affiliate Associate Professor, Department of Pediatrics, UW-Madison
2003-2006	Professor, Departments of Statistics and Biostatistics & Medical Informatics, UW-Madison
2003-2013	Affiliate Professor, Department of Pediatrics, UW-Madison
2006-present	Professor, Department of Biostatistics, University of North Carolina-Chapel Hill (UNC-Chapel Hill)
2006-2016	Chair, Department of Biostatistics, UNC-Chapel Hill
2007-present	Professor, Department of Statistics and Operations Research, UNC-Chapel Hill
2008-present	Research Fellow, Cecil B. Sheps Center for Health Services Research, UNC-Chapel Hill
2008-present	Director, NC TraCS (CTSA) Biostatistics Core, UNC-Chapel Hill
2009-present	Member, Lineberger Comprehensive Cancer Center, UNC-Chapel Hill
2013-present	W. R. Kenan, Jr. Distinguished Professor, Department of Biostatistics
2017-2020	Chair, Department of Biostatistics, UNC-Chapel Hill

RESEARCH INTERESTS:

Biostatistics, Data Science, Artificial Intelligence, Empirical Processes, Machine Learning, Precision Medicine, Precision Health, and Applications of Data Science to Cancer, Cystic Fibrosis, and other health areas.

EDITORIAL ACTIVITIES:

2019-2021	Guest Editor, <i>Journal of the American Statistical Association</i> , Theory and Methods Special Issue on Precision Medicine and Individualized Policy Discovery, Appeared March 2021
2004-2021	Associate Editor, <i>Annals of Statistics</i>
2011-2022	Associate Editor, <i>Journal of the American Statistical Association</i> , Theory and Methods
2015-2019	Associate Editor, <i>Journal of the Royal Statistical Society, Series B</i>
2005-2013	Associate Editor, <i>International Journal of Biostatistics</i>
2007-2009	Associate Editor, <i>Electronic Journal of Statistics</i>
2007-2009	Associate Editor, <i>Probability and Statistics Letters</i>
2007-2009	Associate Editor, <i>Statistics Surveys</i>

DATA SAFETY MONITORING BOARDS and COMMITTEES:

1999-2006	U.S. Cystic Fibrosis Foundation, Data Safety Monitoring Board
2001-2006	U.S. National Institute of Child Health and Human Development, Chair, Intramural Data Safety Monitoring Committee (DSMC)
2003-2009	University of Wisconsin Postpartum Depression Treatment Study, Chair, DSMC

2004-2005	GlaxoSmithKline Study CKA20001, DSMC
2020-present	University of North Carolina at Chapel Hill Quantitation and Spatial Registration of Airways Dysfunction with Dynamic ¹⁹ F MRI in Cystic Fibrosis, Data Safety Monitoring Board

NATIONAL and INTERNATIONAL PROFESSIONAL SERVICE (non-DSMC):

1997-2002	U.S. Cystic Fibrosis Foundation, Clinical Research Committee
2002	Institute of Mathematical Statistics, Program Chair, WNAR/IMS Joint Statistical Meeting, Los Angeles, California, June 23-26.
2006	Institute of Mathematical Statistics, Program Co-Chair (with Jason P. Fine), ENAR/IMS Joint Statistical Meeting, New Orleans, Louisiana, March 19-22.
2008	Special Committee for Promotion (for Dr. F. Vonta), University of Cyprus, Cyprus, May 12.
2008-2017	Member, Board of Trustees, National Institute of Statistical Sciences
2009	Institute of Mathematical Statistics, Program Co-Chair (with Xiaotong Shen), Joint Statistical Meeting, Washington, D.C., August 1-6, 2009.
2011-2017	BMRD Study Section, National Institutes of Health
2015	Steering Committee Member for the SAMSI Innovations Lab on Interdisciplinary Approaches to Biomedical Data Science Challenges, July 20-24, 2015.
2016	International Scientific Advisory Committee for the Medical Research Council Biostatistics Unit, Cambridge University, February 17-18, 2016.
2016	Planning Committee Member, Discussant, and Participant in Workshop on “Refining the Concept of Scientific Inference When Working with Big Data”, National Academies of Sciences, Engineering, and Medicine, Washington, D.C., June 8-9, 2016.
2016-2019	COPSS Awards Committee (Chair, 2017)
2018	Advisory Committee for the Department of Biostatistics, Peking University
2018	Society for Epidemiologic Research, Session Co-Organizer (with Daniel J. Westreich), Baltimore, MD, June 19-22.
2018	Panel for Strategic Review of Public Health and Population Sciences, University of Cambridge, Cambridge, UK, September 25-26.
2018	External Review Committee (Chair) for the Department of Biostatistics, Epidemiology and Informatics, University of Pennsylvania, December 13-14.
2018-2019	Local Scientific Committee, Program on Statistical, Mathematical, and Computational Methods for Precision Medicine, SAMSI
2020-2022	American Statistical Association Noether Awards Committee
2021-2024	COPSS Presidents’ Awards Committee, Chair 2022-2023
2022-2025	Institute of Mathematical Statistics President-elect, President, and Past-President

PROFESSIONAL MEMBERSHIPS:

American Association for the Advancement of Science
 American Statistical Association
 Institute of Mathematical Statistics
 International Biometric Society
 International Chinese Statistical Association
 International Statistical Institute
 Royal Statistical Society

ACCREDITATION:

2011-present	Accredited Professional Statistician™ (American Statistical Association), PStat® (ASA)
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AWARDS:

1987	National Collegiate Mathematics Award
1987-88	Composer in Residence for the Brigham Young University Percussion Ensemble
1988	Rothamsted Research Award in Statistics, Brigham Young University
1990	Donovan J. Thompson Outstanding Student in Biostatistics, University of Washington
1997	National Cancer Institute FIRST Award
2004	Honored Alumni, College of Physical and Mathematical Sciences, Brigham Young University
2006	Fellow, American Statistical Association
2007	Fellow, Institute of Mathematical Statistics
2007	Inducted into Delta Omega, the Honorary Public Health Society
2010	Yakovlev Colloquium Speaker, University of Rochester, Department of Biostatistics and Computational Biology
2011	Third Place in the American Statistical Association Biopharmaceutical Section Poster Award Competition for “Reinforcement Learning Strategies for Lung Cancer Clinical Trials”

2012	2011 International Biometrics Society Best Paper in Biometrics Award for “Detecting disease outbreaks using local spatiotemporal methods”
2015	Myra Samuels Memorial Lecturer, Purdue University, Department of Statistics
2015	Institute of Mathematical Statistics Medallion Lecturer
2016	Distinguished Alumni Lecturer, University of Washington, Department of Biostatistics
2016	Elected Member, International Statistical Institute
2016	Fellow, American Association for the Advancement of Science
2018	Wijsman Lecturer, Department of Statistics, University of Illinois, Urbana-Champaign, November
2019	Annual Invited Lecturer, Division of Biostatistics and Bioinformatics, Department of Epidemiology and Biostatistics, University of California, San Francisco, February
2019	Gottfried E. Noether Distinguished Scholar Award, American Statistical Association
2021	Palmetto Lecturer, Department of Statistics, University of South Carolina, April
2022	VCU SSOR-Biostatistics Distinguished Lecturer, Department of Statistical Sciences and Operations Research and Department of Biostatistics, Virginia Commonwealth University, March
2023	George W. Snedecor Award, Committee of Presidents of Statistical Societies (COPSS)

PEER REVIEWED PUBLICATIONS:

1. Tolley HD and Kosorok MR: An empirical method of comparing risks using stochastic dominance. *Transactions of the Society of Actuaries* 41:507-545, 1989.
2. Swenson PD, Riess JT, Kosorok MR and Oberle MW: HBsAg subtyping with monoclonal antibodies in Southeast Asian refugees entering the United States. In: *Viral Hepatitis and Liver Disease*, Ed. Hollinger FB, Lemon SM, and Margolis HS, Pages 199-202. Baltimore: Williams and Wilkins, 1991.
3. Kosorok MR, Omenn GS, Diehr P, Koepsell TD, and Patrick DL: Conditions associated with restricted activity days among older adults. *American Journal of Public Health* 82:1263-1267, 1992.
4. Kosorok MR and Fleming TR: Using surrogate failure time data to increase cost effectiveness in clinical trials. *Biometrika* 80:823-833, 1993.
5. Baken LA, Koutsky LA, Kuypers J, Kosorok MR, Lee SK, Kiviat NB, Holmes KK: Genital human papillomavirus infection among male and female sexual partners: Prevalence and type-specific concordance. *Journal of Infectious Diseases* 171:429-432, 1995.
6. Kosorok MR, Chao W-H: The analysis of longitudinal ordinal response data in continuous time. *Journal of the American Statistical Association* 91:807-817, 1996.
7. Kosorok MR, Wei W-H, Farrell PM: The incidence of cystic fibrosis. *Statistics in Medicine* 15:449-462, 1996.
8. van Egmond AWA, Kosorok MR, Koscik RE, Laxova A, Farrell PM: Effect of linoleic acid intake on growth of infants with cystic fibrosis. *American Journal of Clinical Nutrition* 63:746-752, 1996.
9. Farrell PM, Kosorok MR, Laxova A, Shen G, Koscik RE, Bruns T, Splaingard M, Mischler EH, and the Wisconsin Cystic Fibrosis Neonatal Screening Group: Nutritional benefits of newborn screening for cystic fibrosis. *New England Journal of Medicine* 337:963-969, 1997.
10. Farrell PM, Shen G, Splaingard M, Colby CE, Laxova A, Kosorok MR, Rock MJ, Mischler EH: Acquisition of *Pseudomonas aeruginosa* in children with cystic fibrosis. *Pediatrics*, 100(5): URL: <http://www.pediatrics.org/cgi/content/full/100/5/e2>, 1997.
11. Gregg RG, Simantel A, Farrell PM, Koscik R, Kosorok MR, Laxova A, Laessig R, Hoffman G, Hassemer D, Mischler EH, Splaingard M: Newborn screening for cystic fibrosis in Wisconsin: Comparison of biochemical and molecular methods. *Pediatrics* 99:819-824, 1997.
12. Pursley JR, Kosorok MR, Wiltbank MC: Reproductive management of lactating dairy cows using synchronization of ovulation. *Journal of Dairy Science* 80:301-306, 1997.
13. Kosorok MR, Jalaluddin M, Farrell PM, Shen G, Colby CE, Laxova A, Rock MJ, Splaingard M: Comprehensive analysis of risk factors for acquisition of *Pseudomonas aeruginosa* in young children with cystic fibrosis. *Pediatric Pulmonology* 26:81-88, 1998.
14. Lai H-C, Kosorok MR, Sondel SA, Chen S-T, FitzSimmons SC, Green CG, Shen G, Walker S, Farrell PM: Growth status in children with cystic fibrosis based on the national Cystic Fibrosis Patient Registry data: Evaluation of various criteria used to identify malnutrition. *Journal of Pediatrics* 132:478-485, 1998.
15. Pan W, Chappell R, Kosorok MR: On consistency of the nonparametric MLE of survival for left truncated and interval censored data. *Statistics and Probability Letters* 38:49-57, 1998.
16. Douglas JA, Kosorok MR, Chewning BA: A latent variable model for multivariate failure time data with psychometrical applications. *Psychometrika* 64: 69-82, 1999.
17. Gourley GR, Kreamer B, Cohnen M, Kosorok MR: Neonatal jaundice and diet. *Archives of Pediatrics & Adolescent Medicine* 153:184-188, 1999.

18. Johnson CA, Wakeen M, Taylor CA, Zimmerman SW, Bhattacharya A, Kosorok MR: Comparison of intraperitoneal and subcutaneous epoetin in peritoneal dialysis patients. *Peritoneal Dialysis International* 19:578-582, 1999.
19. Kosorok MR: Two-sample quantile tests under general conditions. *Biometrika* 86:909-921, 1999.
20. Kosorok MR, Lin C-Y: The versatility of function-indexed weighted log-rank statistics. *Journal of the American Statistical Association* 94:320-332, 1999.
21. Kosorok MR, Qu RP: Exact simultaneous confidence bands for a collection of univariate polynomials in regression analysis. *Statistics in Medicine* 18:613-620, 1999.
22. Lai H-C, Corey M, FitzSimmons S, Kosorok MR, Farrell PM: Comparison of growth status in patients with cystic fibrosis between United States and Canada. *American Journal of Clinical Nutrition* 69:531-538, 1999.
23. Lin C-Y, Kosorok MR: A general class of function-indexed nonparametric tests for survival analysis. *Annals of Statistics* 27:1722-1744, 1999.
24. Pridham K, Kosorok MR, Greer F, Carey P, Kayata S, Sondel S: The effects of prescribed versus ad libitum feedings and formula caloric density on growing premature infants. *Nursing Research* 48:86-93, 1999.
25. Taylor CA, Kosorok MR, Zimmerman SW, Johnson CA: Pharmacokinetics of intraperitoneal epoetin alpha in patients on peritoneal dialysis using 8-hour "dry dwell" dosing technique. *American Journal of Kidney Diseases* 34:657-662, 1999.
26. Jalaluddin M, Kosorok MR: An algorithm for robust inference for the Cox model with frailties. *Journal of Computational and Graphical Statistics* 9:642-652, 2000. (Jalaluddin was one of four winners of the ASA Statistical Computing Section Student Paper Competition.)
27. Karofsky PA, Zeng L, Kosorok MR: The relationship between adolescent-parental communication and the initiation of first intercourse by adolescents. *Journal of Adolescent Health* 28:41-45, 2000.
28. Kosciak RE, Kosorok MR, Farrell PM, Collins J, Peters ME, Laxova A, Green CG, Zeng L, Rusakow LS, Hardie RC, Campbell PW, Gurney JW: The Wisconsin Cystic Fibrosis Chest Radiograph Scoring System: Validation and standardization for application to longitudinal studies. *Pediatric Pulmonology* 29:457-467, 2000.
29. Kosorok MR: Monte Carlo error estimation for multivariate Markov chains. *Statistics and Probability Letters* 46:85-93, 2000.
30. Lai H-C, FitzSimmons SC, Allen DB, Kosorok MR, Rosenstein BJ, Campbell PW, Farrell PM: Persistent growth impairment in children with cystic fibrosis following treatment with alternate-day prednisone. *New England Journal of Medicine* 342:852-859, 2000.
31. Lai H-C, Kosorok MR, Laxova A, Davis LA, FitzSimmons SC, Farrell PM: Nutritional status of patients with cystic fibrosis with meconium ileus: A comparison with patients without meconium ileus and diagnosed early through neonatal screening. *Pediatrics* 105:53-61, 2000.
32. Wei W-H, Kosorok MR: Masking unmasked in the proportional hazards model. *Biometrics* 56:991-995, 2000.
33. Farrell PM, Kosorok MR, Rock MJ, Laxova A, Zeng L, Lai H-C, Hoffman G, Laessig RH, Splaingard ML, and the Wisconsin Cystic Fibrosis Neonatal Screening Study Group: Early diagnosis of cystic fibrosis through neonatal screening prevents severe malnutrition and improves long-term growth. *Pediatrics* 107:1-13, 2001.
34. Kosorok MR, Zeng L, West SEH, Rock MJ, Splaingard ML, Laxova A, Green CG, Collins J, Farrell PM: Acceleration of lung disease in children with cystic fibrosis after *Pseudomonas aeruginosa* acquisition. *Pediatric Pulmonology* 32:277-287, 2001.
35. Pridham K, Kosorok MR, Greer F, Kayata S, Bhattacharya A, Grunwald P: Comparison of caloric intake and weight outcomes of an ad lib feeding regimen for preterm infants in two nurseries. *Journal of Advanced Nursing* 35:751-759, 2001.
36. Gern JE, Martin MS, Anklam KA, Shen K, Roberg KA, Carlson-Dakes KT, Adler K, Gilbertson-White S, Hamilton R, Shult PA, Kirk CJ, DaSilva DF, Sund SA, Kosorok MR, Lemanske RF Jr.: Relationships among specific viral pathogens, virus-induced interleukin-8, and respiratory symptoms in infancy. *Pediatric Allergy and Immunology* 13:386-393, 2002.
37. Gilbert PB, Wei LJ, Kosorok MR, Clemens JD: Simultaneous inferences on the contrast of two hazard functions with censored observations. *Biometrics* 58:773-780, 2002.
38. Kosorok MR: On global consistency of a bivariate survival estimator under univariate censoring. *Statistics and Probability Letters* 56:439-446, 2002.
39. Kosorok MR, Fine JP, Jiang H, Chappell RJ: Asymptotic theory for the gamma frailty model with dependent censoring. *Annals of the Institute of Statistical Mathematics* 54:476-499, 2002.
40. Lai H-C, Kosorok MR, Laxova A, Makhholm M, Farrell PM: Delayed diagnosis in females with cystic fibrosis. *American Journal of Epidemiology* 156:165-173, 2002.
41. West SEH, Zeng L, Lee BL, Kosorok MR, Laxova A, Rock MJ, Splaingard MJ, Farrell PM: Respiratory infections with *Pseudomonas aeruginosa* in children with cystic fibrosis: Early detection by serology and assessment of risk factors. *Journal of the American Medical Association* 287:2968-2972, 2002.

42. Farrell PM, Li Z, Kosorok MR, Laxova A, Green CG, Collins J, Lai H-C, Makhholm LM, Rock MJ, Splaingard ML: Longitudinal evaluation of bronchopulmonary disease in children with cystic fibrosis. *Pediatric Pulmonology* 36:230-240, 2003.
43. Farrell PM, Li Z, Kosorok MR, Laxova A, Green CG, Collins J, Lai H-C, Rock MJ, Splaingard ML: Bronchopulmonary disease in children with cystic fibrosis after early or delayed diagnosis. *American Journal of Respiratory and Critical Care Medicine* 168:1100-1108, 2003.
44. Kosorok MR: Bootstraps of independent but not identically distributed stochastic processes. *Journal of Multivariate Analysis* 84:299-318, 2003.
45. Potegal M, Kosorok MR, Davidson RJ: Temper tantrums in young children: 2. Tantrum duration and temporal organization. *Journal of Developmental and Behavioral Pediatrics* 24:148-154, 2003.
46. Cook TD, Kosorok MR: Analysis of time-to-event data with incomplete event adjudication. *Journal of the American Statistical Association* 99:1140-1152, 2004.
47. Fine JP, Yan J, Kosorok MR: Temporal process regression. *Biometrika* 91:683-703, 2004.
48. Gangnon RE, Kosorok MR: Weighted log-rank statistics and sample size formula for clustered survival data. *Biometrika* 91:263-275, 2004.
49. Kosciak RL, Farrell PM, Kosorok MR, Zaremba KM, Laxova A, Lai H-C, Douglas JA, Rock MJ, Splaingard ML: Cognitive function of children with cystic fibrosis: Deleterious effect of early malnutrition. *Pediatrics* 113:1549-1558, 2004.
50. Kosorok MR, Lee BL, Fine JP: Robust inference for univariate proportional hazards frailty regression models. *Annals of Statistics* 32:1448-1491, 2004.
51. Kosorok MR, Shi Y, DeMets DL: Design and analysis of group sequential clinical trials with multiple primary endpoints. *Biometrics* 60:134-145, 2004.
52. Lai H-C, Cheng Y, Cho H, Kosorok MR, Farrell PM: Relationship between initial disease presentation, lung disease outcomes and survival in patients with cystic fibrosis. *American Journal of Epidemiology* 159:537-546, 2004.
53. Li Z, Lai H-C, Kosorok MR, Laxova A, Rock MJ, Splaingard ML, Farrell PM: Longitudinal pulmonary status of cystic fibrosis children with meconium ileus. *Pediatric Pulmonology* 38:277-284, 2004.
54. Corech R, Rao A, Laxova A, Moss J, Rock MJ, Li Z, Kosorok MR, Splaingard ML, Farrell PM, Barbieri JT: Early immune response to the type-III system of *Pseudomonas aeruginosa* in children with cystic fibrosis. *Journal of Clinical Microbiology* 43:3956-3962, 2005.
55. Dixon JR, Kosorok MR, Lee BL: Functional inference in semiparametric models using the piggyback bootstrap. *Annals of the Institute of Statistical Mathematics* 57:255-277, 2005.
56. Eng KH, Kosorok MR: A sample size formula for the supremum log-rank statistic. *Biometrics* 61:86-91, 2005.
57. Farrell PM, Lai H-C, Li Z, Kosorok MR, Laxova A, Green CG, Collins J, Hoffman G, Laessig R, Rock MJ, Splaingard ML: Evidence on improved outcomes with early diagnosis of cystic fibrosis through neonatal screening: Enough is enough! *Journal of Pediatrics* 147:S30-S35, 2005.
58. Gourley GR, Li Z, Kreamer BL, Kosorok MR: A controlled, randomized, double-blind trial of prophylaxis against jaundice in breastfed newborns. *Pediatrics* 116:392-399, 2005.
59. Jiang H, Fine JP, Kosorok MR, Chappell RJ: Pseudo self-consistent estimation of a copula model with informative censoring. *Scandinavian Journal of Statistics* 32:1-20, 2005.
60. Kosciak RL, Lai H-C, Laxova A, Zaremba KM, Kosorok MR, Douglas JA, Rock MJ, Splaingard ML, Farrell PM: Preventing early, prolonged vitamin E deficiency: An opportunity for better cognitive outcomes via early diagnosis through neonatal screening. *Journal of Pediatrics* 147:S51-S56, 2005.
61. Kosorok MR, Ma S: Comment on "Semilinear high-dimensional model for normalization of microarray data: a theoretical analysis and partial consistency" by J. Fan, H. Peng, T. Huang. *Journal of the American Statistical Association* 100:805-807, 2005.
62. Lee BL, Kosorok MR, Fine JP: The profile sampler. *Journal of the American Statistical Association* 100:960-969, 2005.
63. Li Z, Kosorok MR, Farrell PM, Laxova A, West SEH, Green CG, Collins J, Rock MJ, Splaingard ML: Longitudinal development of *Pseudomonas aeruginosa* infection and lung disease progression in children with cystic fibrosis. *Journal of the American Medical Association* 293:581-588, 2005.
64. Ma S, Kosorok MR: Penalized log-likelihood estimation for partly linear transformation models with current status data. *Annals of Statistics* 33:2256-2290, 2005.
65. Ma S, Kosorok MR: Robust semiparametric M-estimation and the weighted bootstrap. *Journal of Multivariate Analysis* 96:190-217, 2005.
66. Braun AT, Farrell PM, Ferec C, Audrezet MP, Laxova A, Li Z, Kosorok MR, Gershan WM: Cystic fibrosis mutations and genotype-pulmonary phenotype analysis. *Journal of Cystic Fibrosis* 5:33-41, 2006.
67. Brody AS, Kosorok MR, Li Z, Broderick LS, Foster JL, Laxova A, Bandla H, Farrell PM: Reproducibility of a scoring system for computerized tomography scanning in cystic fibrosis. *Journal of Thoracic Imaging* 21:14-21, 2006.
68. Kosorok MR, Gangnon RE: Resolving the tail instability in weighted log-rank statistics for clustered survival data. *Statistics and Probability Letters* 76:304-309, 2006.

69. Ma S, Kosorok MR: Adaptive penalized M-estimation with current status data. *Annals of the Institute of Statistical Mathematics* 58:511-526, 2006.
70. Ma S, Kosorok MR, Fine JP: Additive risk models for survival data with high dimensional covariates. *Biometrics* 62:202-210, 2006.
71. Ma S, Kosorok MR, Huang J, Xie H, Manzella L, Soares MB: Robust semiparametric cDNA microarray normalization and significance analysis. *Biometrics* 62:555-561, 2006.
72. Cheng Y, Fine JP, Kosorok MR. Nonparametric analysis of multivariate competing risks data. *Journal of the American Statistical Association*, 102:1407-1415, 2007.
73. Kosorok MR: Discussion on "Maximum likelihood estimation in semiparametric regression models with censored data" by D. Zeng, D.Y. Lin. *Journal of the Royal Statistical Society, Series B* 69:551-552, 2007.
74. Kosorok MR, Fine JP: Comment on "Implementation of estimating-function based inference procedures with Markov chain Monte Carlo samplers" by L. Tian, J. S. Liu, L. J. Wei. *Journal of the American Statistical Association* 102:896-897, 2007.
75. Kosorok MR, Ma S: Marginal asymptotics for the "large p, small n" paradigm: with applications to microarray data. *Annals of Statistics* 35:1456-1486, 2007.
76. Kosorok MR, Song R: Inference under right censoring for transformation models with a change-point based on a covariate threshold. *Annals of Statistics*, 35:957-989, 2007.
77. Cheng G, Kosorok MR: Higher order semiparametric frequentist inference with the profile sampler. *Annals of Statistics* 36:1786-1818, 2008.
78. Cheng G, Kosorok MR. General frequentist properties of the posterior profile distribution. *Annals of Statistics* 36:1819-1853, 2008.
79. Kosorok MR. Bootstrapping the Grenander estimator. In: *Beyond Parametrics in Interdisciplinary Research: Festschrift in Honor of Professor Pranab K. Sen*. Eds. N. Balakrishnan, E.A. Peña, M.J. Silvapulle. Collections, Volume 1. Institute of Mathematical Statistics: Beachwood, OH. Pages 282-292, 2008.
80. Kosorok MR. Semiparametric maximum likelihood inference in survival analysis. In: *Statistical Advances in the Biomedical Sciences: Clinical Trials, Epidemiology, Survival Analysis, and Bioinformatics*. Eds. A. Biswas, S. Datta, J. P. Fine, M. R. Segal. Wiley: New York. Pages 159-175, 2008.
81. Song R, Cook TD, Kosorok MR: What we want versus what we can get: A closer look at failure time endpoints for cardiovascular studies. *Journal of Biopharmaceutical Statistics* 18:370-381, 2008.
82. Song R, Kosorok MR, Cai J: Robust covariate-adjusted log-rank statistics and corresponding sample size formulas for recurrent events data. *Biometrics* 64:741-750, 2008.
83. Anand IS, Carson P, Galle E, Song R, Boehmer J, Ghali J, Jaski B, Lindenfeld J, O'Connor C, Steniberg J, Leigh J, Yong P, Kosorok MR, Feldman AM, DeMets D, Bristow M. Cardiac resynchronization therapy reduces the risk of hospitalizations in patients with advanced heart failure: results from the COMPANION trial. *Circulation* 119:3093-3100, 2009.
84. Cheng Y, Fine JP, Kosorok MR: Nonparametric association analysis of exchangeable clustered competing risks data. *Biometrics* 65:385-393, 2009.
85. Cheng G, Kosorok MR: The penalized profile sampler. *Journal of Multivariate Analysis*, 100:345-362, 2009.
86. Farrell PM, Collins J, Broderick LS, Rock MJ, Li Z, Kosorok MR, Laxova A, Gershon WM, Brody AS: Association between mucoid *Pseudomonas* infection and bronchiectasis in children with cystic fibrosis. *Radiology* 252:534-543, 2009.
87. Kosorok MR: What's so special about semiparametric methods? (with discussion and rejoinder) *Sankhya Series A* 71-A:331-371.
88. Kosorok MR: Discussion of: Brownian distance covariance. *Annals of Applied Statistics* 4:1270-1278, 2009.
89. Ma S, Kosorok MR: Identification of differential gene pathways with principal component analysis. *Bioinformatics* 25:882-889, 2009.
90. Song R, Kosorok MR, Fine JP: On asymptotically optimal tests under loss of identifiability in semiparametric models. *Annals of Statistics* 37:2409-2444, 2009.
91. Song R, Zhou H, Kosorok MR: On semiparametric efficient inference for two-stage outcome-dependent-sampling with a continuous outcome. *Biometrika* 96:221-228, 2009.
92. Zhao YF, Kosorok MR, Zeng D: Reinforcement learning design for cancer clinical trials. *Statistics in Medicine* 28:3294-3315, 2009.
93. Han X, Li Y, Huang J, Zhang Y, Holford T, Lan Q, Rothman N, Zheng T, Kosorok MR, Ma S: Identification of predictive pathways for non-Hodgkin lymphoma prognosis. *Cancer Informatics* 9:281-292, 2010.
94. Ma S, Kosorok MR: Detection of gene pathways with predictive power for breast cancer prognosis. *BMC Bioinformatics* 11:1, 2010.
95. Cao H, Kosorok MR: Simultaneous critical values for t-tests in very high dimensions. *Bernoulli* 17:347-394, 2011.
96. Goldberg Y, Kosorok MR: Comment on "Adaptive confidence intervals for the test error in classification" by E. B. Labor and S. A. Murphy. *Journal of the American Statistical Association* 106:920-924, 2011.

97. Ma S, Kosorok MR, Huang J, Da Y: Incorporating higher-order representative features improves prediction in network-based cancer prognosis analysis. *BMC Medical Genomics* 4:5, 2011.
98. Nadkarni N, Zhao YQ, Kosorok MR: Inverse regression estimation for censored data. *Journal of the American Statistical Association* 106:178-190, 2011.
99. Zhao YQ, Zeng D, Herring AH, Ising A, Waller A, Richardson D, Kosorok MR: Detecting disease outbreaks using local spatiotemporal methods. *Biometrics* 67:1508-1517, 2011. (Winner of both the 2011 International Biometrics Society Best Paper in Biometrics Award and the 2010 American Statistical Association Statistics in Epidemiology Young Investigator Award.)
100. Zhao YF, Zeng D, Socinski MA, Kosorok MR: Reinforcement learning strategies for clinical trials in non-small cell lung cancer. *Biometrics*, 67:1422-1433, 2011. (A poster based on this paper was the Third Place Winner of the 2011 American Statistical Association Biopharmaceutical Section Poster Award Competition.)
101. Carpenter WR, Meyer AM, Abernethy AP, Sturmer T, Kosorok MR: A framework for understanding cancer comparative effectiveness research data needs. *Journal of Clinical Epidemiology* 65:1150-1158, 2012.
102. Goldberg Y, Kosorok MR: Q-learning with censored data. *Annals of Statistics* 40:529-560, 2012.
103. Goldberg Y, Kosorok MR: An exponential bound for Cox regression. *Statistics and Probability Letters* 82:1267-1272, 2012.
104. Kang C, Zhu H, Wright FA, Zou F, Kosorok MR: The interactive decision committee for chemical toxicity analysis. *Journal of Statistical Research* 46:157-186, 2012.
105. Li Z, Sanders DB, Rock MJ, Kosorok MR, Collins J, Green CG, Brody AS, Farrell PM: Regional differences in the evolution of lung disease in children with cystic fibrosis. *Pediatric Pulmonology* 47:635-640, 2012.
106. Meyer AM, Carpenter WR, Abernethy AP, Sturmer T, Kosorok MR: Data for cancer comparative effectiveness research: Past, present, and future potential. *Cancer* 118:5186-5197, 2012.
107. Tang R, Banerjee M, Kosorok MR: Likelihood based inference for current status data on a grid: A boundary phenomenon and an adaptive inference procedure. *Annals of Statistics* 40:45-72, 2012.
108. Zhao YQ, Zeng D, Rush AJ, Kosorok MR: Estimating individualized treatment rules using outcome weighted learning. *Journal of the American Statistical Association* 107:1106-1118, 2012.
109. Zhu R, Kosorok MR: Recursively imputed survival trees. *Journal of the American Statistical Association* 107:331-340, 2012.
110. Cao H, LaVange, LM, Heyse JF, Mast TC, Kosorok MR: Medical records based post-marketing safety evaluation of rare events with uncertain status. *Journal of Biopharmaceutical Statistics* 23:201-212, 2013.
111. Cao H, Sun W, Kosorok MR: The optimal power puzzle: scrutiny of the monotone likelihood ratio assumption in multiple testing. *Biometrika* 100:495-502, 2013.
112. Chen G, Sullivan PF, Kosorok MR: Biclustering with heterogeneous variance. *Proceedings of the National Academy of Sciences* 110:12253-12258, 2013.
113. Ding K, Kosorok MR, Zeng D: On the local and stratified likelihood approaches in single-index model. *Communications in Mathematics and Statistics* 1:115-132, 2013.
114. Goldberg Y, Song R., Kosorok MR: Adaptive Q-Learning. In: *From Probability to Statistics and Back: High-Dimensional Models and Processes -- A Festschrift in Honor of Jon Wellner*. Eds. M. Banerjee, F. Bunea, J. Huang, V. Koltchinskii, M.H. Maathuis. Collections, Volume 9. Institute of Mathematical Statistics: Beachwood, OH. Pages 150-162, 2013.
115. Monaco JH, Cai J, LaVange LM, Kosorok MR: History of the Department of Biostatistics at the University of North Carolina at Chapel Hill. In: *Strength in Numbers: The Rising of Academic Statistics Departments in the U. S.* Eds Agresti AA, Meng X-L. Springer: New York. Pages 453-468, 2013.
116. Wei S, Kosorok MR: Latent supervised learning. *Journal of the American Statistical Association* 108:957-970, 2013.
117. Goldberg Y, Song R, Zeng D, Kosorok MR: Comment on "Dynamic treatment regimes: technical challenges and applications" by E. B. Laber, D. J. Lizotte, M. Qian, W. E. Pelham, and S. A. Murphy. *Electronic Journal of Statistics* 8:1290-1300, 2014.
118. Ren Z, Davidian M, George SL, Goldberg RM, Wright FA, Tsiatis AA, Kosorok MR: Research methods for clinical trials in personalized medicine: a systematic review. In: *Lost in Translation: Barriers to Incentives for Translational Research in Medical Sciences*. Eds. Srivastava R, Maksymowicz W, Lopaczynski W. World Scientific: Singapore. Pages 659-684, 2014.
119. R. Song R, Kosorok MR, Fine JP: Discussion of "Multiscale change point inference" by K. Frick, A. Munk and H. Sieling. *Journal of the Royal Statistical Society, Series B* 76:564, 2014.
120. Zhao YQ, Kosorok MR: Comment on "Combining biomarkers to optimize patient treatment recommendations" by C. Y. Kang, H. Janes, and Y. Huang. *Biometrics* 70:713-716, 2014.
121. Holdsworth La E, Zhu R, Hassmiller Lich K, Ellis AR, Swartz MS, Kosorok MR, Morrissey JP: The effects of state psychiatric hospital waitlist policies on length of stay and time to readmission. *Administration and Policy in Mental Health* 42:332-342, 2015.
122. Song R, Kosorok MR, Zeng D, Zhao YQ, Laber EB, Yuan M: On sparse representation for optimal individualized treatment selection with penalized outcome weighted learning. *Stat* 4:59-68, 2015.

123. Song R, Wang W, Zeng D, Kosorok MR: Penalized Q-learning for dynamic treatment regimes. *Statistica Sinica* 25:901-920.
124. Zhao YQ, Zeng D, Laber EB, Kosorok MR: New statistical learning methods for estimating optimal dynamic treatment regimes. *Journal of the American Statistical Association* 110:583-598, 2015.
125. Zhao YQ, Zeng D, Laber EB, Song R, Yuan M, Kosorok MR: Doubly robust learning for estimating individualized treatment with censored data. *Biometrika* 102:151-168, 2015.
126. Zhu R, Zeng D, Kosorok MR: Reinforcement learning trees. *Journal of the American Statistical Association* 110:1770-1784, 2015.
127. Chen G, Liu Y, Shen D, Kosorok MR: Composite large margin classifiers with latent subclasses for heterogeneous biomedical data. *Statistical Analysis and Data Mining* 9:75-88, 2016.
128. Chen J, Liu Y, Zeng D, Song R, Zhao YQ, Kosorok MR: Comment on “Bayesian nonparametric estimation for dynamic treatment regimes with sequential transition times” by Y. Xu, P. Müller, A. S. Wahed, P. F. Thall. *Journal of the American Statistical Association* 111:942-947, 2016.
129. Chen G, Zeng D, Kosorok MR: Personalized dose finding using outcome weighted learning (with discussion and rejoinder). *Journal of the American Statistical Association* 111:1509-1547, 2016.
130. Laber EB, Zhao YQ, Regh T, Davidian M, Tsiatis A, Stanford JB, Zeng D, Song R, Kosorok MR: Using pilot data to size a two-arm randomized trial to find a nearly optimal personalized treatment strategy. *Statistics in Medicine* 35:1245-1256, 2016.
131. Song R, Banerjee B, Kosorok MR: Asymptotics for change-point models under varying degrees of mis-specification. *Annals of Statistics* 44:153-182, 2016.
132. Teran Hidalgo SJ, Lawson MT, Luckett DJ, Chaudhari M, Chen J, Choudhury A, Di Florio A, Jiang X, Nguyen CT, Kosorok MR: A master pipeline for discovery and validation of biomarkers. In: *Machine Learning for Health Informatics: State-of-the-Art and Future Challenges*. Ed Holzinger A. Springer International Publishing. Pages 259-288, 2016.
133. Cui Y, Zhu R, Kosorok MR: Tree based weighted learning for estimating individualized treatment rules with censored data. *Electronic Journal of Statistics* 11:3927-3953, 2017.
134. Diegidio P, Hermiz S, Hibbard J, Kosorok MR, Hultman CS: Hypertrophic burn scar research: From quantitative assessment to designing clinical sequential multiple assignment randomized trials. *Clinics in Plastic Surgery* 44:917-924, 2017
135. Goldberg Y, Kosorok MR: Support vector regression for right censored data. *Electronic Journal of Statistics* 11:532-569, 2017.
136. Zhang Q, Kosorok MR: Statistical monitoring of clinical trials using Brownian bridges. *International Journal of Statistics and Probability* 6:142-151, 2017.
137. Zhou X, Mayer-Hamblett N, Khan U, Kosorok MR: Residual weighted learning for estimating individualized treatment rules. *Journal of the American Statistical Association* 112:169-187, 2017.
138. Butler EM, Laber EB, Davis SM, Kosorok MR: Incorporating patient preferences into estimation of optimal individualized treatment rules. *Biometrics* 74:18-26, 2018.
139. Chaudhari M, Kim EH, Withana Gamage PW, McMahan CS, Kosorok MR: Study design with staggered sampling times for evaluating sustained unresponsiveness to peanut sublingual immunotherapy. *Statistics in Medicine* 37:3944-3958, 2018.
140. Chen G, Kosorok MR, Zhou X: Nonconvex Optimization. Wiley StatsRef: Statistics Reference Online. 1–9, 2018.
141. Chen J, Fu H, He X, Kosorok MR, Liu Y: Estimating individualized treatment rules for ordinal treatments. *Biometrics* 74:924-933, 2018.
142. Chen J, Zhang C, Kosorok MR, Liu Y: Double sparsity kernel learning with automatic variable selection and data extraction (with discussion and rejoinder). *Statistics and Its Interface*, 11:401-431, 2018.
143. Di Florio A, Gordan-Smith K, Forty L, Kosorok MR, Fraser C, Perry A, Bethell A, Craddock N, Jones L, Jones I: Stratification of the risk of bipolar disorder recurrences in pregnancy and postpartum. *British Journal of Psychiatry* 213:542-547, 2018.
144. El Naqa I, Kosorok MR, Jin J, Mierzwa M, Ten Haken TR: Prospects and challenges for clinical decision support in the era of big data. *Journal of Clinical Oncology Clinical Cancer Informatics* 2, 2018: DOI: 10.1200/CCI.18.00002
145. Hibbard JC, Friedstat JS, Davis SM, Edkins RE, Hultman CS, Kosorok MR: LIBERTY: A SMART study in plastic surgery. *Clinical Trials* 15:286-293, 2018.
146. Lawson MT, Cho H, Choudhury A, Cui Y, Jiang X, Pokaparakarn T, Kosorok MR: Discussion of Laber et al. “Optimal treatment allocations in space and time for on-line control of an emerging infectious disease.” *Journal of the Royal Statistical Society Series C* 67:779-780, 2018.
147. Liu Y, Wang Y, Kosorok MR, Zhao Y, Zeng D: Augmented outcome-weighted learning for estimating optimal dynamic treatment regimes. *Statistics in Medicine* 37:3776-3788, 2018.
148. Saiman L, Zhou JJ, Jiang X, Kosorok MR, Muhlebach MS: Surveying cystic fibrosis care centers to assess adoption of infection prevention and control recommendations. *Infection Control and Hospital Epidemiology* 39:647-651, 2018.

149. Tapak L, Kosorok MR, Sadeghifar M, Hamidi O: Multistate Recursively Imputed Survival Trees for time-to-event data Analysis: An application to AIDS and mortality post-HIV infection data. *BMC Medical Research Methodology* 18:129, 2018.
150. Teran Hidalgo SJ, Wu MC, Engel SE, Kosorok MR: Goodness-of-fit test for nonparametric regression models: Smoothing spline ANOVA models as example. *Computational Statistics and Data Analysis* 122:135-155, 2018.
151. Wei S, Kosorok MR: The change-plane Cox model. *Biometrika* 105:891-903, 2018.
152. Bellach A, Kosorok MR, Rüschemdorf L, Fine JP: Weighted NPMLE for the subdistribution of a competing risk. *Journal of the American Statistical Association* 114:259-270, 2019.
153. Dasgupta D, Goldberg Y, Kosorok MR: Feature elimination in kernel machines in moderately high dimensions. *Annals of Statistics* 47:497-526, 2019.
154. Freeman NLB, Jiang X, Leete OE, Luckett DJ, Pokaparakarn T, Kosorok MR: Comment: Models as approximations. *Statistical Science*, 34:572-574, 2019.
155. Gares V, Dimeglio C, Guernec G, Fantin R, Lepage B, Kosorok MR, Savy N: On the use of optimal transportation theory to recode variables and application to database merging. *International Journal of Biostatistics* 16(1), 20180106. doi: <https://doi.org/10.1515/ijb-2018-0106>, 2019.
156. Kahkoska AR, Adair LA, Aiello AE, Burger K, Buse JB, Crandell J, Maahs DM, Nguyen CT, Kosorok MR, Mayer-Davis EJ: Identification of clinically-relevant dysglycemia phenotypes based on continuous glucose monitoring data from youth with type 1 diabetes and elevated hemoglobin A1c. *Pediatric Diabetes*. 20:556-566, 2019.
157. Kahkoska AR, Lawson MT, Crandell J, Driscoll KA, Kichler JC, Seid M, Maahs DM, Kosorok MR, Mayer-Davis EJ: Assessment of a Precision Medicine Analysis of a Behavioral Counseling Strategy to Improve Adherence to Diabetes Self-Management Among Youth: A Post Hoc Individualized Treatment Rule Analysis of the Flexible Lifestyles Empowering Change (FLEX) Trial. *JAMA Network Open* 2(5):e195137. doi:10.1001/jamanetworkopen.2019.5137, 2019.
158. Kahkoska AR, Nguyen CT, Adair LA, Aiello AE, Burger KS, Buse JB, Dabelea D, Dolan LM, Malik FS, Mottl AK, Pihoker C, Reboussin BA, Sauder KA, Kosorok MR, Mayer-Davis EJ: Longitudinal phenotypes of type 1 diabetes in youth based on weight and glycemia and their association with complications. *Journal of Clinical Endocrinology and Metabolism*, 104:6003-6016, 2019.
159. Kosorok MR, Laber EB: Precision medicine. *Annual Review of Statistics and Its Application* 6:263-286, 2019.
160. Stoudemire W, Jiang X, Zhou JJ, Maykowski P, Kosorok MR, Muhleback MS, Saiman L: Cystic fibrosis program characteristics associated with adoption of 2013 infection prevention and control recommendations. *Journal of Infection Control* 47:1090-1095, 2019.
161. Yazdani A, Yazdani A, Elsea SH, Schaid DJ, Kosorok MR, Dangol G, Samiei A: Genome analysis and pleiotropy assessment using causal networks with loss of function mutation and metabolomics. *BMC Genomics* 20:395, 2019.
162. Zikry TM, Kedziora KM, Kosorok MR, Purvis JE: In and out of the nucleus: CNN based segmentation of cell nuclei from images of a translocating sensor. *PEARC '19 Proceedings of the Practice and Experience in Advanced Research Computing on Rise of the Machines (learning)*. ACM: New York. Article No. 70, 2019.
163. Bellach A, Kosorok MR, Gilbert PB, Fine JP: General regression model for the subdistribution of a competing risk under left-truncation and right-censoring. *Biometrika* 107:949-964, 2020.
164. Cho H, Zitovsky JP, Li X, Lu M, Shah K, Sperger J, Tsilimigras MCB, Kosorok MR: Comment on "Linear mixed models with endogenous covariates: modeling sequential treatment effects with application to a mobile health study". *Statistical Science* 35:396-399, 2020.
165. Gamage PWW, Chaudari M, McMahan CS, Kim EH, Kosorok MR: A proportional hazards model for interval-censored data subject to instantaneous failures. *Lifetime Data Analysis* 26:158-182, 2020.
166. Helgeson ES, Liu Q, Chen G, Kosorok MR, Bair E: Bicustering via sparse clustering. *Biometrics* 1:348-358, 2020.
167. Igudesman D, Crandell J, Zhong VW, Cristello Sarteau A, Kahkoska AR, Corbin K, Pratley R, Kosorok MR, Maahs DM, Mayer-Davis EJ: Dietary intake on days with and without hypoglycemia in youth with type 1 diabetes: The Flexible Lifestyle Empowering Change trial. *Pediatric Diabetes* 21:1475-1484, 2020.
168. Ivanova A, Israel E, LaVange LM, Peters MC, Denlinger LC, Moore WC, Bacharier LB, Marquis MA, Gotman NM, Kosorok MR, Tomlinson C, Mauger DT, Georas SN, Wright RJ, Noel P, Rosner GL, Akuthota P, Billheimer D, Bleecker ER, Cardet JC, Castro M, DiMango EA, Erzurum SC, Fahy JV, Fajt ML, Gaston BM, Holguin F, Jai S, Kenyon NJ, Krishnan JA, Kraft M, Kumar R, Liu MC, Ly NP, Moy JN, Phipatanakul W, Ross K, Smith LJ, Szeffler SJ, Teague WG, Wechsler ME, Wenzel SE, White SR: The precision interventions for severe and/or exacerbation-prone asthma (PrecISE) adaptive platform trial: statistical considerations. *Journal of Biopharmaceutical Statistics* 30:1026-1037, 2020.
169. Kahkoska AR, Nguyen C, Jiang X, Adair LA, Agarwal S, Aiello AE, Burger KS, Buse JB, Dabelea D, Dolan LM, Imperatore G, Lawrence JM, Marcovina S, Pihoker C, Reboussin BA, Sauder KA, Kosorok MR, Mayer-Davis EJ: Characterizing the weight-glycemia phenotype of type 1 diabetes in youth and young adulthood. *BMJ Open Diabetes Research and Care* 8:e000886. doi: 10.1136/bmjdr-2019-000886, 2020.
170. Luckett DJ, Laber EB, Kahkoska AR, Maahs DM, Mayer-Davis E, Kosorok MR: Estimating dynamic treatment regimes in mobile health using V-learning. *Journal of the American Statistical Association* 115:692-706, 2020.

171. Nguyen CT, Luckett DJ, Kahkoska AR, Shearrer GE, Spruijt-Metz D, Davis JN, Kosorok MR: Estimating individualized treatment regimes from crossover designs. *Biometrics* 76:778-788, 2020.
172. Sperger J, Freeman NLB, Jiang X, Bang D, de Marchi D, Kosorok MR: The future of precision health is data-driven decision support. *Statistical Analysis and Data Mining* 13:537-543, 2020.
173. Yazdani A, Mendez-Giraldez R, Yazdani A, Kosorok MR, Roussos P: Differential gene regulatory pattern in the human brain from schizophrenia using transcriptomic-causal network. *BMC Bioinformatics* 21:469. <https://doi.org/10.1186/s12859-020-03753-6>, 2020.
174. Zhu L, Lu W, Kosorok MR, Song R: Kernel assisted learning for personalized dose finding. *Proceedings of the 26th SIGKDD Conference on Knowledge Discovery and Data Mining*. Pages 56-65. <https://doi.org/10.1145/3394486.3403048>, 2020.
175. Butler E, Kosorok M: Design and analysis methods for developing personalized treatment rules. In: *Handbook of Statistical Methods for Randomized Clinical Trials*. Eds Kim KM, Bretz F, Cheung YK, Hampson LV. Chapman & Hall/CRC. Pages 487-508, 2021.
176. Chen J, Tran-Dinh Q, Kosorok MR, Liu Y: Identifying heterogeneous effect using latent supervised clustering with adaptive fusion. *Journal of Computational and Graphical Statistics* 30:43-54, 2021.
177. Freeman NLB, Sperger J, El-Zaatari H, Kahkoska AR, Lu M, Valancius M, Virkud AV, Zikry TM, Kosorok MR: Beyond two cultures: Cultural infrastructure for data-driven decision support. *Observational Studies* 7:77-94, 2021.
178. Jiang X, Nelson AE, Cleveland RJ, Beavers DP, Schwartz TA, Arbeeva L, Alvarez C, Callahan LF, Messier S, Loeser R, Kosorok MR: A precision medicine approach to develop optimal exercise and weight loss treatment for overweight and obese adults with knee osteoarthritis. *Arthritis Care & Research* 73:693-701, 2021.
179. Kim S, Cho H, Bang D, De Marchi D, El-Zaatari H, Shah KS, Valancius M, Zikry TM, Kosorok MR: Discussion of 'Estimating time-varying causal excursion effect in mobile health with binary outcomes' by T. Qian, H. Yoo, P. Klasnja, D. Almirall, S. Murphy. *Biometrika* 108:529-533, 2021.
180. Knickmeyer RC, Nguyen CT, Young JT, Haunton A, Kosorok MR, Gilmore JH, Styner M, Rothmond DA, Noble PI, Lenroot R, Weickert CS: Impact of gonadectomy on maturational changes in brain volume in adolescent macaques. *Psychoneuroendocrinology* 124:105068. doi.org/10.1016/j.psyneuen.2020.105068, 2021.
181. Kosorok MR, Laber EB, Small DS, Zeng D: Introduction to the theory and methods special issue on precision medicine and individualized policy discovery. *Journal of the American Statistical Association* 116:159-161, 2021.
182. Li J, Li Y, Jin B, Kosorok MR: Multi-threshold change plane model: Estimation theory and applications in subgroup identification. *Statistics In Medicine* 30:3440-3459, 2021.
183. Luckett DJ, Laber EB, El-Kamary SS, Fan C, Jhaveri R, Perou CM, Shebl FM, Kosorok MR: Receiver operating characteristic curves and confidence bands for support vector machines. *Biometrics* 77:1422-1430, 2021.
184. Luckett DJ, Laber EB, Kim S, Kosorok MR: Estimation and optimization of composite outcomes. *Journal of Machine Learning Research* 22(167):1-40, 2021.
185. McGinagle KL, Freeman NLB, Marston WA, Farber A, Conte M, Kosorok MR, Kalbaugh CA: Precision medicine enables more TNM-like staging in patients with chronic limb threatening ischemia. *Frontiers in Cardiovascular Medicine* 8:765. doi=10.3389/fcvm.2021.709904, 2021.
186. Rashid NU, Luckett DJ, Chen J, Lawson MT, Wang L, Zhang Y, Laber EB, Liu Y, Yeh JJ, Zeng D, Kosorok MR: High dimensional precision medicine from patient-derived xenografts. *Journal of the American Statistical Association* 116:1140-1154, 2021.
187. Sperger J, Shah KS, Lu M, Zhang X, Ungaro RC, Brenner EJ, Agrawal M, Colombel J-F, Kappelman MD, Kosorok MR: Development and validation of multivariable prediction models for adverse COVID-19 outcomes in IBD patients. *BMJ Open* 11:e049740. doi: 10.1136/bmjopen-2021-049740, 2021.
188. Tapak L, Kosorok MR, Sadeghifar M, Hamidi O, Afshar S, Doosti H: Regularized weighted non-parametric likelihood approach for high-dimension sparse subdistribution hazards model for Competing Risks data. *Computational and Mathematical Methods in Medicine* 2021:5169052. <https://doi.org/10.1155/2021/5169052>, 2021.
189. Adu-Amankwah A, Bellad MB, Benson AM, Beyuo TK, Bhandankar M, Charanthimath U, Chisembele M, Cole SR, Dhaded SM, Enweronu-Laryea C, Freeman BL, Freeman NLB, Goudar SS, Jiang X, Kasaro MP, Kosorok MR, Luckett D, Mbewe FM, Misra S, Mutesu K, Nuamah MA, Oppong SA, Patterson JK, Peterson M, Pokaparakarn T, Price JT, Pujar YV, Rouse DJ, Sebastião YV, Spelke MB, Sperger J, Stringer JSA, Tuuli MG, Valancius M, Vwalika B, LABOR Study Group: Limiting adverse birth outcomes in resource-limited settings (LABOR): protocol of a prospective intrapartum cohort study. *Gates Open Research* 6:115, 2022.
190. Cho H, Jewell NP, Kosorok MR: Interval censored recursive forests. *Journal of Computational and Graphical Statistics* 31:390-402, 2022.
191. Chung J, Freeman NLB, Kosorok MR, Marston WA, Conte MS, McGinagle KL: Analysis of a machine learning-based risk stratification scheme for chronic limb-threatening ischemia. *JAMA Network Open* 5(3):e223424. doi:10.1001/jamanetworkopen.2022.3424, 2022.
192. Corbin KD, Igudesman D, Addala A, Casu A, Crandell J, Kosorok MR, Maahs DM, Pokaparakarn T, Pratley RE, Souris KJ, Dessi JT, Zaharieva P, Mayer-Davis E for the ACT1ON Consortium: Design of the advancing care for type 1 diabetes and obesity network energy metabolism and sequential multiple assignment randomized trial nutrition pilot

- studies: An integrated approach to develop weight management solutions for individuals with type 1 diabetes. *Contemporary Clinical Trials* 117: Article 106765, 2022.
193. Cui Y, Zhu R, Zhou M, Kosorok MR: Consistency of survival tree and forest models: splitting bias and correction. *Statistica Sinica* 32:1245-1267, 2022.
 194. Henderson HI, Napravnik S, Kosorok MR, Gower EW, Kinlaw AC, Aiello AE, Williams B, Wohl DA, van Duin D: Predicting risk of multidrug-resistant enterobacteriales infections among people with HIV. *Open Forum Infectious Diseases* 9(10):ofac487. DOI: 10.1093/ofid/ofac487, 2022
 195. Honvah G, Cho H, Kosorok MR: Model selection for survival individualized treatment rules using the jackknife estimator. *BMC Medical Research Methodology* 22:328. <https://doi.org/10.1186/s12874-022-01811-6>, 2022.
 196. Igudesman D, Crandell J, Corbin KD, Muntis F, Zaharieva DP, Casu A, Thomas JM, Bulik CM, Carroll IM, Pence BW, Pratley R, Kosorok MR, Maahs DM, Mayer-Davis EJ: The intestinal microbiota and short-chain fatty acids in association with advanced metrics of glycemia and adiposity among young adults with type 1 diabetes and overweight or obesity. *Current Developments in Nutrition* 6(10) nzac107, <https://doi.org/10.1093/cdn/nzac107>, 2022.
 197. Kahkoska AR, Hassmiller Lich K, Kosorok MR: Focusing on optimality for the translation of precision medicine. *Journal of Clinical and Translational Science* e6: e118, 1–4. doi: 10.1017/cts.2022.438, 2022.
 198. Kahkoska AR, Pokaparakarn T, Alexander GR, Crume TL, Dabelea D, Divers J, Dolan LM, Jensen ET, Lawrence JM, Marcovina S, Mottl AK, Pihoker C, Saydah SH, Kosorok MR, Mayer-Davis EJ: The impact of racial and ethnic health disparities in diabetes management on clinical outcomes: a reinforcement learning analysis of health inequity among youth and young adults in the SEARCH for Diabetes in Youth Study. *Diabetes Care* 45:108-118, 2022.
 199. Lee D, El-Zaatari H, Kosorok MR, Li X, Zhang K: Comment on ‘Multiscale Fisher’s Independence Test for Multivariate Dependence’. *Biometrika* 109:597-603, 2022.
 200. Muhlebach MS, Jiang X, Kosorok MR, Klein EY, Saiman L: Longitudinal changes and regional variation of incident infection rates at cystic fibrosis centers, United States 2010-2016. *Journal of Cystic Fibrosis* 21:34-39, 2022.
 201. Pokaparakarn T, Kitzmiller RR, Moorman JR, Lake DE, Krishnamurthy AK, Kosorok MR: Sequence to sequence ECG cardiac rhythm classification using convolutional recurrent neural networks. *Journal of Biomedical and Health Informatics* 26:572-580, 2022.
 202. Pokaparakarn T, Prieto JC, Price JT, Kasaro MP, Sindano N, Shah HR, Peterson M, Akapelwa MM, Kapilya FM, Sebastião YV, Goodnight W, Stringer EM, Freeman BL, Montoya LM, Chi BH, Rouse DJ, Cole SR, Vwalika B, Kosorok MR, Stringer JSA: AI estimation of gestational age from blind ultrasound sweeps in low-resource settings. *NEJM Evidence* 1(5). doi.org/10.1056/EVIDoA2100058, 2022.
 203. Roy P, Fine JP, Kosorok MR: Efficiency of naive estimators for accelerated failure time models under length-biased sampling. *Scandinavian Journal of Statistics* 49:525-541, 2022.
 204. Stoudemire W, Jiang X, Zhou JJ, Kosorok MR, Saiman L, Muhlebach MS: Predicting risk-adjusted incidence rates of methicillin-resistant *Staphylococcus aureus* and *Pseudomonas aeruginosa* in cystic fibrosis programs in the United States. *Journal of Cystic Fibrosis* 21:1013-1019, 2022.
 205. Willis EA, Hales D, Smith FT, Burney R, El-Zaatari HM, Rzepka MC, Amft O, Barr R, Evenson KR, Kosorok MR, Ward DS: Feasibility and acceptability of wearable sensor placement for measuring screen time of children. *Translational Journal of the American College of Sports Medicine* 7(4):e000214. DOI: 10.1249/TJX.0000000000000214, 2022.
 206. Yazdani A, Yazdani A, Mendez-Giraldez R, Samiei A, Kosorok MR, Schaid DJ: From classical Mendelian randomization to causal networks for systematic integration of multi-omics. *Frontiers in Genetics* 13:990486. doi: 10.3389/fgene.2022.990486, 2022.
 207. Bukowski A, Hoyo C, Vielot N, Graff M, Kosorok MR, Brewster WR, Maguire RL, Murhpy SK, Nedjai B, Ladoukakis E, North KR, Smith JS: Epigenome-wide methylation and progression to high-grade cervical intraepithelial neoplasia (CIN2+): A prospective cohort study in the United States. *BMC Cancer* 23:1072, 2023.
 208. Cho H, Holloway ST, Couper DJ, Kosorok MR: Multi-stage optimal dynamic treatment regimes for survival outcomes with dependent censoring. *Biometrika* 110:395-410, 2023.
 209. Cui Y, Kosorok MR, Sverdrup E, Wager S, Zhu R: Estimating heterogeneous treatment effects with right-censored data via causal survival forests. *Journal of the Royal Statistical Society, Series B* 85:179-211, 2023.
 210. Igudesman D, Crandell J, Corbin KD, Zaharieva DP, Addala A, Thomas JM, Bulik CM, Carroll IM, Pence BW, Pratley RE, Kosorok MR, Maahs DM, Mayer-Davis EJ: Associations of disordered eating with the intestinal microbiota and short-chain fatty acids among young adults with type 1 diabetes. *Nutrition, Metabolism, and Cardiovascular Disease* 33:388-398, 2023.
 211. Igudesman D, Crandell J, Corbin KD, Zaharieva DP, Addala A, Thomas JM, Casu A, Kirkman MS, Pokaparakarn T, Riddell MC, Burger K, Pratley RE, Kosorok MR, Maahs DM, Mayer-Davis EJ for the ACTION Study Group: Weight management in young adults with type 1 diabetes: The Advancing Care for Type 1 Diabetes and Obesity Network sequential multiple assignment randomized trial pilot results. *Diabetes, Obesity and Metabolism* 25:688-699, 2023.
 212. Jiang X, Zhou X, Kosorok MR: Deep doubly robust outcome weighted learning. *Machine Learning* <https://doi.org/10.1007/s10994-023-06484-w>, 2023.

213. Kahkoska AR, Freeman NLB, Jones E, Shirazi D, Browder S, Page A, Sperger J, Zikry TM, Fei Y, Busby-Whitehead J, Kosorok MR, Batsis JA: Individualized interventions and precision health: Lessons from a systematic review and implications for analytics-driven geriatric research. *Journal of the American Geriatrics Society* 71:383-393, 2023.
214. Kim EH, Keet CA, Virkud YV, Chin S, Ye P, Penumarti A, Smeekens J, Guo R, Yue X, Li Q, Kosorok MR, Kulis MD, Burks AW: Open-label study of the efficacy, safety and durability of peanut sublingual immunotherapy in peanut-allergic children. *Journal of Allergy and Clinical Immunology* 151:1558-1565.e6, 2023.
215. Langworthy BW, Cai J, Corty RW, Kosorok MR, Fine JP: Principal components analysis for right censored data. *Statistica Sinica* 33:1985-2016, 2023.
216. Lee D, Zhang K, Kosorok MR: The binary expansion randomized ensemble test. *Statistica Sinica* 33:2381-2403, 2023.
217. Liu P, Li J, Kosorok MR: Change plane model averaging for subgroup identification. *Statistical Methods in Medical Research* 32:773-788, 2023.
218. Montoya L, Kosorok MR, Geng E, Schwab J, Odeny T, Petersen M: Efficient and robust approaches for analysis of SMARTs: Illustration using the ADAPT-R trial. *Biometrics* 79:2577-2591, 2023.
219. Savy N, Moodie EEM, Drouet I, Chambaz A, Falissard B, Kosorok MR, Krakow EF, Mayo DG, Senn S, van der Laan M: Statistics, philosophy, and health: the SMAC 2021 Webconference. *International Journal of Biostatistics* 19:261-269, 2023.
220. Shah K, Fu H, Kosorok MR: Stabilized direct learning for efficient estimation of individualized treatment rules. *Biometrics* 79:2843-2856, 2023.
221. Virkud AV, Chang PP, Jonsson Funk M, Kshirsagar AV, Edwards JK, Pate V, Kosorok MR, Gower EW: Comparative effect of loop diuretic prescription on mortality and heart failure readmission. *The American Journal of Cardiology* 210:208-216, 2023.
222. Zitovsky JP, de Marchi D, Agarwal R, Kosorok MR: Revisiting Bellman errors for offline model selection. *Proceedings of the 40th International Conference on Machine Learning (ICML)* PMLR 202:43369-43406, 2023.
223. Cho H, She J, De Marchi D, El-Zaatari H, Barnes EL, Kahkoska AR, Kosorok MR, Virkud AV: Machine learning and health science research: A tutorial. *Journal of Medical Internet Research*, 26:e50890 doi: 10.2196/50890, 2024.
224. F. Yu, H.M. El-Zaatari, M.R. Kosorok, A. Carnegie, G. Dave (2024). The application of exponential random graph models to collaboration networks in biomedical and health sciences: a review. *Network Modeling Analysis in Health Informatics and Bioinformatics* 13, 5. <https://doi.org/10.1007/s13721-023-00439-w>, 2024.
225. Zikry TM, Wolff SC, Ranek JS, Davis H, Naugle A, Luthra N, Whitman AA, Kedziora KM, Stallaert W, Kosorok MR, Spanheimer PM, Purvis JE: Cell cycle plasticity underlies fractional resistance to palbociclib in ER+/HER- breast tumor cells. *Proceedings of the National Academy of Sciences* 121(7):e2309261121. <https://doi.org/10.1073/pnas.2309261121>, 2024.
226. Bukowski A, Vielot N, Hoyo C, Graff M, Kosorok MR, Brewster WR, Maguire RL, Murphy SK, Nedjai B, Ladoukakis E, North KE, Smith JS: Epigenome-wide differential methylation and differential variability as predictors of high-grade cervical intraepithelial neoplasia (CIN2+). *American Journal of Epidemiology*, In press.
226. Cui Y, Hannig J, Kosorok MR: A unified nonparametric fiducial approach to interval-censored data. *Journal of the American Statistical Association*, In press.
227. Freeman NLB, Browder SE, McGinigle KL, Kosorok MR: Individualized treatment rule characterization via a value function surrogate. *Biometrics*, In press.
228. Kahkoska AR, Shah K, Kosorok MR, Miller K, Rickels M, Weinstock RS, Young L, Pratley RE: Estimation of a machine learning-based decision rule to reduce hypoglycemia among older adults with type 1 diabetes: A post-hoc analysis of continuous glucose monitoring in the WISDM study. *Journal of Diabetes Science and Technology*, In press.
229. Kim S, Kosorok MR, Arbeeva L, Schwartz TA, Callahan LF, Golightly YM, Nelson AE, Allen KD: Precision medicine-based machine learning analyses to explore optimal exercise therapies for individuals with knee osteoarthritis: Random Forest Informed Tree-based Learning. *Journal of Rheumatology*, In press.
230. Shah K, Saiman L, LiPuma JJ, Kosorok MR, Muhlebach MS: Association of Pseudomonas aeruginosa incident infections with adherence to Cystic Fibrosis Foundation care guidelines. *Journal of Cystic Fibrosis*, In press.
231. Sperger J, Kosorok MR, Linnan L, Kneipp SM: Multilevel intervention stepped wedge designs (MLI-SWDs). *Prevention Science*, In press.
232. Wang T, Keil AP, Kim S, Wyss R, Htoo PT, Jonsson Funk M, Buse JB, Kosorok MR, Sturmer T: Iterative Causal Forest: A novel algorithm for subgroup identification. *American Journal of Epidemiology*, In press.

BOOKS

- Kosorok MR: *Introduction to Empirical Processes and Semiparametric Inference*. Springer: New York, 2008.
- Kosorok MR, Moodie EEM: *Adaptive Treatment Strategies in Practice: Planning Trials and Analyzing Data for Personalized Medicine*. ASA-SIAM Series on Statistics and Applied Probability. SIAM, Philadelphia, ASA, Alexandria, VA, 2016.

GRANT SUPPORT:

T32 LM012420 (CA201159 in Year 1), National Library of Medicine: Big Data to Knowledge Training Program (05/01/15-04/30/20). PI : Drs. Michael R. Kosorok (contact PI) and M. Gregory Forest; My Role: Contact Principal Investigator.

P01 CA142538, National Cancer Institute: Statistical Methods for Cancer Clinical Trials (04/01/10-03/31/21). PI: Drs. Michael R. Kosorok (contact PI), Marie Davidian, Stephen L. George (04/01/10-03/31/15) and Kouros Owzar (04/01/15-03/31/20); My Role: Contact Principal Investigator, 32-40% effort.

UL1 TR002489, NIH: North Carolina Translational & Clinical Sciences Institute (NC TraCS) (03/30/18-02/28/23). PI: Dr. John B. Buse; My role: Co-Project Leader, 20% effort.

UL1 TR001111, NIH: North Carolina Translational & Clinical Sciences Institute (NC TraCS) (09/26/13-04/30/18). PI: Dr. Marschall S. Runge; My Role: Director of Biostatistics Service, 20% effort.

UL1 RR025747, NIH National Center for Research Resources: UNC Clinical Translation Science Award (05/19/08-04/30/13). PI: Dr. Marschall S. Runge; My Role: Director of Biostatistics Core, 20% effort.

U24 HL138998, NIH: Data, Modeling, and Coordination for PrecISE Network (09/23/17-06/30/23). PI: Dr. Anastasia Ivanova; My Role: Co-Investigator, 15% effort.

DP3 DK113358, NIH: Accelerating Solutions to Optimize Glycemic Control and Weight Management in Young Adults with Type 1 Diabetes (05/01/17-04/30/21). PI: Dr. Elizabeth Mayer-Davis; My Role: Co-Investigator, 5% effort.

OPP1192462 UNC, Bill & Melinda Gates Foundation Agreement (11/01/2018-10/30/2019). PI: Dr. Jeffrey Stringer; My role: co-investigator and analytics lead, 20% effort.

DMS-1407732, National Science Foundation: Support vector machines for censored data (07/01/14-06/30/18). PI: Dr. Michael R. Kosorok (in collaboration with Dr. Yair Goldberg); My Role: Principal Investigator, 5-10% effort.

DMS-0904184, National Science Foundation: Collaborative Research: Novel methods for pharmacogenomic data analysis using gene clusters (08/15/09-07/31/12). PI: Dr. Michael R. Kosorok; My Role: Principal Investigator, 5% effort.

Subcontract for R01 DK34108, Pulmonary Benefits of Cystic Fibrosis Neonatal Screening (01/01/07-12/31/11). PI: Dr. Michael R. Kosorok; My Role: Principal Investigator on Subcontract, 8% effort.

R01 DK34108, National Heart, Lung and Blood Institute: Pulmonary Benefits of Cystic Fibrosis Neonatal Screening (05/05/01-03/31/06). PI: Dr. Philip M. Farrell; My Role: Associate Investigator, 20% effort.

Merck & Co.: Methods for interim analysis with incomplete adjudication of events (7/01/09-6/30/11). PI: Dr. Joseph Ibrahim; My Role: Co-Investigator, 10% effort.

UNC-Chapel Hill Public Health Foundation, Inc. (Gillings Innovation Laboratory Award): Innovative disease surveillance methods for the linkage, analysis, and management of large electronic repositories (08/15/08-08/14/10). PI: Dr. David Richardson; My Role: Co-Investigator, 10% effort.

R01 CA075142, National Cancer Institute: Semiparametric and Empirical Process Methods in Oncology (07/01/02-06/30/10). PI: Dr. Michael R. Kosorok; My Role: Principal Investigator, 30% effort.

R29 CA075142, National Cancer Institute: Multivariate Group Sequential Cancer Clinical Trials (07/01/97-06/30/02). PI: Dr. Michael R. Kosorok; My Role: Principal Investigator, 50% effort.

Subcontract for OBSERV04K0, Cystic Fibrosis Foundation: EPIC Observational Study (07/01/06-3/31/09). PI: Dr. Michael R. Kosorok; My Role: Principal Investigator on Subcontract, 3% effort.

GlaxoSmithKline: Independent Statistical Office for GSK Study CKA20001 (03/01/04-12/28/05). PI: Dr. Michael R. Kosorok; My Role: Principal Investigator, 15% effort.

DMS-0139160, National Science Foundation: REU Site - Summer Research Program in Biostatistics (06/01/02-05/31/05). PI: Dr. Michael R. Kosorok; My Role: PI and Co-Director (with Dr. C. David Page also as Co-Director).

SELECTED INVITED PRESENTATIONS:

Centers for Disease Control, workshop on newborn screening for cystic fibrosis, January, 1997.

Indiana University Purdue University at Indianapolis, Department of Mathematical Sciences Seminar, April, 1997.

"Counting Process Methods in Clinical Trials with Multiple Endpoints." Keynote at "Biometrics and Research Statistics Technical Symposium: Survival Analysis." SmithKline Beecham Pharmaceuticals, Collegeville, PA. October, 1997.

Eastern North American Region (ENAR) of the International Biometric Society, Pittsburgh, PA, March, 1998.

University of Georgia-Atlanta, Department of Statistics Seminar, Atlanta, GA, November, 1998.

Memorial Sloan-Kettering Cancer Center, Biostatistics Service Seminar, New York, NY, November, 1998.

University of Michigan, Biostatistics Department Seminar, September, 2000.

National University of Singapore, Statistics and Applied Probability Seminar, December, 2000.

University of Illinois at Urbana-Champaign, Department of Statistics Seminar, September, 2001.

Columbia University, Department of Statistics Seminar, April, 2002.

Rutgers University, Department of Statistics Seminar, April, 2002.

International Conference on Reliability and Survival Analysis, University of South Carolina, May, 2003.

University of Iowa, Department of Statistics and Actuarial Science Seminar, November 6, 2003.

Ohio State University, Department of Statistics Seminar, April, 2004.

International Conference on Statistics in Health Sciences, Nantes University of Pharmacy, Nantes, France, June, 2004.

“Empirical Data and Brownian Motion: Finding Structure in Randomness,” Honored Alumni Lecture, College of Physical and Mathematical Sciences, Brigham Young University, October 14, 2004.
 Medical College of Wisconsin, Division of Biostatistics Seminar, November, 2004.
 National University of Singapore, Institute for Mathematical Sciences Seminar, March, 2005.
 University of Minnesota, School of Statistics Seminar, March, 2005.
 Florida State University, Department of Statistics Seminar, April, 2005.
 Cornell University, Department of Statistics Seminar, April, 2005.
 University of Missouri, Department of Statistics Seminar, April, 2005.
 “Longitudinal Development and Clinical Impact of Mucoid *Pseudomonas aeruginosa* Infection,” Cystic Fibrosis Foundation Williamsburg Conference, Williamsburg, Virginia, June 3-7, 2005.
 International Conference on Statistics, Hong Kong Baptist University, Hong Kong, June, 2005.
 Joint Statistical Meetings, Minneapolis, Minnesota, August, 2005.
 University of North Carolina-Chapel Hill, Department of Biostatistics Chair Candidate Seminar, October, 2005.
 University of Minnesota, School of Statistics Seminar, November, 2005.
 Brigham Young University, Department of Statistics Seminar, November, 2005.
 Cornell University, Department of Statistical Science Seminar, November, 2005.
 Florida State University, Department of Statistics Seminar, November, 2005.
 University of Texas MD Anderson Cancer Center, Dept. of Biostatistics and Applied Mathematics Seminar, March, 2006.
 ENAR/IMS 2006, Tampa, Florida, March, 2006.
 SAMSI Summer Program, Radisson Hotel Research Triangle Park, North Carolina, July, 2006.
 North Carolina State University, Department of Statistics Seminar, October, 2006.
 University of Michigan, Department of Statistics and Department of Biostatistics Joint Seminar, November, 2006.
 National Institute of Environmental Health Sciences, Biostatistics Branch Seminar, December, 2006.
 Medical University of South Carolina, Dept. of Biostatistics, Bioinformatics and Epidemiology Seminar, December, 2006.
 Invited roundtable discussion leader, ENAR Meeting, Atlanta, Georgia, March 11-14, 2007.
 University of North Carolina-Chapel Hill, Department of Statistics and Operations Research Colloquium, March, 2007.
 ICSA Applied Statistics Symposium, Raleigh, North Carolina, June, 2007.
 Joint Statistical Meetings, Salt Lake City, Utah, August, 2007.
 Duke University, Department of Biostatistics and Bioinformatics, Seminar, September, 2007.
 Conference on “Current and Future Trends in Nonparametrics,” University of South Carolina, October, 2007.
 University of Washington, Departments of Biostatistics and Statistics, Joint Seminar, November, 2007.
 James Madison University Department of Mathematics and Statistics Colloquium, December, 2007.
 Brigham Young University, Department of Statistics, Seminar, February, 2008.
 ENAR Meeting, Arlington, Virginia, March, 2008.
 “Theory Versus Applications: Tension on the Cutting Edge.” **Keynote address** at the Southern Regional Council on Statistics, Charleston, South Carolina, June 8-11, 2008.
 Joint Statistical Meetings. Denver, Colorado, August, 2008.
 Columbia University, Department of Biostatistics Colloquium, February, 2009.
 Purdue University, Department of Statistics Research Colloquium, March, 2009.
 University of Wisconsin-Madison, Department of Biostatistics and Medical Informatics Seminar, March, 2009.
 Symposium on “New Directions in Asymptotics Statistics,” Athens, Georgia, May, 2009.
 First Institute of Mathematical Statistics Asia Pacific Rim Meeting, Seoul, South Korea, June, 2009.
 North Carolina State University, Department of Statistics, Biostatistics Seminar, September, 2009.
 McGill University CRM-ISM-GERAD Statistics Colloquium, February, 2010.
 ENAR Meeting, New Orleans, Louisiana, March, 2010.
 University of Wisconsin-Madison 50th Anniversary Conference, Madison, Wisconsin, June, 2010.
 Journal Panel Talk. Institute of Mathematical Statistics New Researchers Conference, Vancouver, Canada, July, 2010.
 “Reinforcement Learning, Clinical Trials and Personalized Medicine.” From Probability to Statistics and Back: High-Dimensional Models and Processes, Conference in honor of Jon A. Wellner, Seattle, Washington, July, 2010.
 Joint Statistical Meetings, Vancouver, Canada, August, 2010.
 “Reinforcement Learning, Clinical Trials and Personalized Medicine.” University of Rochester, Department of Biostatistics and Computation Biology, Yakovlev Colloquium Speaker, September 9, 2010.
 Emory University, Department of Biostatistics and Bioinformatics Seminar, November, 2010.
 University of Chicago, Department of Health Studies Seminar, November, 2010.
 ENAR Meeting, Miami, Florida, March, 2011.
 University of Pittsburgh, Department of Biostatistics Seminar, April, 2011.
 Columbia University, Department of Biostatistics Seminar, April, 2011.
 NSF Workshop on High Dimensional Data, Nantucket, MA, May 12-14, 2011.
 “Personalized Medicine and Clinical Trials.” **Plenary speaker**, Conference entitled “High Dimensional Data: Advances and Challenges,” Nanyang Technological University, Singapore, May 24-27, 2011.

SRCOS Summer Research Conference, Hickory Knob State Park, South Carolina, June, 2011.
 University of Virginia, School of Medicine, Division of Biostatistics and Epidemiology, June, 2011.
 JSM, Miami Beach, Florida, August, 2011.
 Johns Hopkins University, School of Public Health, Department of Biostatistics, September, 2011.
 Michigan State University, Science on the Edge Quantitative Biology and Modeling Seminar, February, 2012.
 ENAR Workshop for Junior Researchers, Washington, D.C., March, 2012.
 Harvard University, Department of Biostatistics, Personalized Medicine Workshop, May, 2012.
 8th International Purdue Symposium on Statistics, Purdue University, June, 2012.
 International Chinese Statistical Association 21st Applied Statistics Symposium, Boston, MA, June, 2012.
 “Personalized Medicine and Statistical Learning,” **Plenary talk** at the 2012 International Pharmaceutical Statistics Workshop, Shanghai, China, July 10-12, 2012.
 Soochow University, Center for Advanced Statistics and Econometrics Research, Suzhou, China, July, 2012.
 Joint Statistical Meetings, San Diego, CA, August, 2012.
 “Advanced Topics in Personalized Medicine and Dynamic Treatment Regimes” in invited workshop on “Personalized Medicine and Dynamic Treatment Regimes” at the Second IMPACT Symposium, Raleigh, NC, November 1-2, 2012.
 George Mason University, Department of Statistics, November, 2012.
 ENAR Meeting, Orlando, FL, March, 2013.
 Symposium on Clinical Trials, Penn State University, April, 2013.
 Society for Clinical Trials Meeting, Boston, MA, May, 2013.
 Statistical Science in Society, University of Waterloo, July/August, 2013.
 Joint Statistical Meetings, Montreal, QC, Canada, August, 2013. Invited talk and invited workshop entitled “Personalized Medicine and Dynamic Treatment Regimes” (joint with E. B. Laber).
 Medical Research Council, Cambridge, UK, September, 2013.
 FDA, Silver Spring, MD, October, 2013.
 International Conference on Health Statistics, Chicago, IL. October, 2013.
 FDA Public Workshop: “Complex Issues in Rare Disease Drug Development” (panelist), Silver Spring, MD, January, 2014.
 NCI, Bethesda, MD, February, 2014.
 ENAR Meeting, Baltimore, MD, March, 2014.
 Expert Workshop: “Pioneering Statistical Approaches to Accelerate Drug Development through Adaptive Trial Designs” (panelist and speaker), Brookings Institute, Washington DC, March, 2014.
 DIA/FDA Statistics Forum, Bethesda, MD, April, 2014.
 Memorial Sloan Kettering Cancer Center, Department of Epidemiology and Biostatistics, April, 2014.
 University of California-San Francisco Seminar: Big Data to Advance Biomedical Science, Population Health, April, 2014.
 Columbia University Statistics Department Conference: Nonparametric Measures of Dependence, May, 2014.
 Inserm Workshop on Methodological Issues in Personalized and Predictive Medicine, Bordeaux, France, June, 2014.
 International Conference on Survival Analysis in Memory of John P. Klein, Milwaukee, WI, June, 2014.
 Joint Statistical Meetings, Boston, MA, August, 2014.
 University of Michigan Departments of Biostatistics and Statistics Joint Seminar, September, 2014.
 North American Cystic Fibrosis Meeting, Atlanta, GA, October, 2014.
 FDA Workshop on “Sequential Multiple Assignment Randomized Trials” (presenter), Silver Spring, MD, October, 2014.
 McGill University; Department of Epidemiology, Biostatistics and Occupational Health; February, 2015.
 Virginia Commonwealth University, Department of Biostatistics, February, 2015.
 ENAR Meeting, Miami, FL, March, 2015.
 Myra Samuels Memorial Lecture, Purdue University, Department of Statistics, April, 2015.
 SAMSI Innovations Lab on Interdisciplinary Approaches to Biomedical Data Science Challenges, Research Triangle Park, NC, July, 2015.
 Joint Statistical Meetings, Seattle, WA, August, 2015. Introductory Overview Lecture (joint with E. B. Laber and E. E. M. Moodie) and Institute of Mathematical Statistics **Medallion Lecture**.
 Harvard University Department of Biostatistics Big Data Symposium, November, 2015.
 ENAR Meeting, Austin, TX, March, 2016.
 Distinguished Alumni Lecture, University of Washington, Department of Biostatistics, May, 2016.
Plenary Speaker, Conference on Statistical Learning and Data Science, Chapel Hill, NC, June, 2016.
Distinguished Lecturer, IMS Asia Pacific Rim Meeting, Hong Kong, June, 2016.
 Hong Kong Baptist University, Department of Mathematics, Hong Kong, June, 2016.
Keynote Speaker, SINAPE 22 Meeting, Porto Alegre, Brazil, July, 2016.
 Joint Statistical Meetings, Chicago, IL, August, 2016. JASA Theory and Methods Invited Discussion Speaker, Panel Discussant, Invited Session Discussant, and Lunch Speaker.
 Helen Barton Lecture Series Speaker, University of North Carolina at Greensboro, Department of Mathematics and Statistics, October, 2016.
 University of Pennsylvania, Wharton School, Department of Statistics, October, 2016.

Wilks Statistics Seminar, Princeton University, Department of Operations Research and Financial Engineering, December 2016.

ENAR Meeting, Washington DC, March, 2017.

Statistics Colloquium, University of Chicago, Department of Statistics, May, 2017.

Discussant, Atlantic Causal Inference Conference, University of North Carolina at Chapel Hill, May, 2017.

Research Symposium, AgBiome, Durham, NC, June, 2017.

European Meeting of Statisticians, Helsinki, Finland, July, 2017.

Joint Statistical Meetings, Baltimore, MD, August, 2017. JASA Applications and Case Studies Invited Discussion Speaker and Lunch Speaker.

Cornell Day of Statistics, Cornell University, Department of Statistical Science, September, 2017.

Keynote Speaker, Innovative Statistics and Machine Learning for Precision Medicine Workshop, University of Minnesota, Institute of Mathematics and its Applications, September, 2017.

Biostatistics in the Modern Computing Era, Medical College of Wisconsin, Milwaukee, Wisconsin, September, 2017.

Keynote Speaker, Conference on Statistics and Health (Personalized Medicine and Big Data), Institut de Mathématiques de Toulouse, Toulouse, France, January, 2018.

Workshop on the Interface of Machine Learning and Statistical Inference, Banff International Research Station, Banff National Park, Alberta, Canada, January, 2018.

ENAR Meeting, Atlanta, GA, March, 2018.

Biostatistics Colloquium (Levin Lecture Series), Columbia University, Department of Biostatistics, March, 2018.

Mathematics and Statistics Colloquium (Interdisciplinary Data Sciences Seminar Series), University of South Florida, Department of Mathematics and Statistics, April, 2018.

Statistics Colloquium, Penn State University, Department of Statistics, April, 2018.

Special Invited Talk, International Indian Statistical Association Conference, University of Florida, May, 2018.

Keynote Speaker, Southern Regional Council on Statistics (SRCOS) Conference, Virginia Beach, VA, June, 2018.

Session Co-organizer and Discussant, Society for Epidemiologic Research (SER), Baltimore, MD, June, 2018.

Joint Statistical Meeting, Vancouver, BC, Canada, July-August, 2018.

Wijsman Lecture, Bohrer Workshop, Department of Statistics, University of Illinois, Urbana-Champaign, November, 2018.

Keynote Speaker, ASA Georgia Chapter Meeting, Atlanta, Georgia, November, 2018.

Invited Speaker, First Beijing Symposium on Biostatistics and Data Science, Peking University, November, 2018.

DiDi Chuxing, Beijing, China, November, 2018.

Invited Panelist, Health Technology Symposium, University of North Carolina at Chapel Hill, November, 2018.

Annual Invited Lecturer, Division of Biostatistics and Bioinformatics, Department of Epidemiology and Biostatistics, University of California, San Francisco, February, 2019.

AIDS Therapeutic Network (ATN) Analytic Committee Webinar, March, 2019.

Keynote Speaker, NCI Workshop on Artificial Intelligence in Radiation Oncology, Bethesda, MD, April, 2019.

Endocrinology Grand Rounds, Department of Medicine, Duke University, Durham, NC, April, 2019.

Plenary Speaker, SAMSI Precision Medicine Transition Workshop, North Carolina State University, May, 2019.

Atlantic Causal Inference Conference, Montreal, Quebec, Canada, May, 2019.

Machine Learning and Data Science Workshop, Columbia University, June, 2019.

Artificial Intelligence and Medicine Seminar, University of Texas Southwestern, Radiation Oncology, June, 2019.

Joint Statistical Meeting (JSM), Denver, CO, July-August, 2019. Invited talk and **Senior Noether Lecture**.

ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop, Washington DC, September, 2019.

Eli Lilly, Indianapolis, IN, October, 2019.

SAMSI Causal Inference Opening Workshop, Duke University, December, 2019.

ENAR Meeting, Virtual, March, 2020.

Data-Driven Precision Medicine and Translational Research in the Era of Big Data, St. Jude Children's Research Hospital, Memphis, TN, May, 2020.

JSM, Virtual Conference, August, 2020.

Biostatistics Seminar, University of Michigan, Department of Biostatistics, October 2020.

University of Nebraska Medical Center Precision Medicine Workshop, October 2020.

Reinforcement Learning Algorithm and Application Virtual Seminar, November, 2020.

Palmetto Lectures, University of South Carolina, Department of Statistics, April, 2021.

WNAR Meeting, Virtual, June 2021.

Online Seminar on Mathematical Foundations of Data Science, June 2021.

Statistical learning methods in modern AI conference, Tianyuan Mathematical Center in Northwest China, June 2021.

Joint Statistical Meeting (JSM), Virtual Conference, August, 2021, Invited Speaker and Discussant.

FDA Statistical Association Lecture Series, August, 2021, Invited Speaker.

[Guest on National Public Radio Charlotte talk show on artificial intelligence and health](#), November, 2021.

Office of Biostatistics Research Seminar Series, National Heart, Lung, and Blood Institute, March, 2022.

SSOR-Biostatistics Distinguished Lecture, Virginia Commonwealth University, Department of Statistical Sciences and Operations Research and Department of Biostatistics, March, 2022.

Research presentation, AI4ALL Stanford University Chapter, Arizona State University Chapter, and the University of Texas at El Paso Chapter, March, 2022.

ENAR Meeting, Houston, TX (and Virtual), March, 2022.

Statistics Colloquium, Florida State University, Department of Statistics, April, 2022.

Speaker event, East Chapel Hill High School Computer Science and AI Club of the Scholastic Artificial Intelligence League (SAILEa), April, 2022.

Biostatistics Seminar, Yale University School of Public Health, Department of Biostatistics, April, 2022.

American Causal Inference Conference, University of California-Berkeley, May, 2022. Invited discussant.

Institute of Mathematical Statistics Annual Meeting, London, United Kingdom, June 2022.

Institute of Mathematical Statistics, New Researcher's Conference, George Mason University, August, 2022.

Joint Statistical Meeting, Washington DC, August, 2022.

2023 Clemson-University of Georgia Joint Colloquium, Departments of Statistics, Clemson University, seminar talk and dinner talk, April, 2023.

Biostatistics seminar, St. Jude Children's Research Hospital, Department of Biostatistics, Memphis, TN, April, 2023.

Institute for Mathematical and Statistical Innovation, Workshop on Machine Learning and Artificial Intelligence for Precision Medicine, Chicago, IL, April, 2023.

AMA Distinguished Lecture Series in Data Science and Machine Learning (online), Department of Applied Mathematics, Hong Kong Polytechnic University, Hong Kong, May, 2023.

Seminar, Indiana University School of Medicine, Department of Biostatistics and Health Data Science, May, 2023.

Plenary Speaker (online), Daiichi Sankyo Biometrics and Data Science Symposium, May, 2023.

Lifetime Data Science Conference, Raleigh, NC, June, 2023.

Joint Statistical Meetings, Toronto, Ontario, Canada, August, 2023.

Southern Medical Association Annual Scientific Assembly, Panel Discussion on AI In Healthcare, Greensboro, NC, 2023.

Boston University School of Public Health, Public Health Conversation (online), Public Health Data Science: The Next Decade, speaker, February, 2024.

Ph.D./Dr.PH. STUDENT SUPERVISION:

1. Wei-Hsiung Chao (Ph.D. graduate, 1996, UW-Madison)
2. Wen-Hsiang Wei (Ph.D. graduate, 1996, UW-Madison)
3. Chin-Yu Lin (Ph.D. graduate, 1998, UW-Madison)
4. Muhammad Jalaluddin (Ph.D. graduate, 1999, UW-Madison)
5. Bee Leng Lee (Ph.D. graduate, 2000, UW-Madison)
6. Yuanjun Shi (Ph.D. graduate, 2001, UW-Madison)
7. John R. Dixon (Ph.D. graduate, 2003, UW-Madison)
8. Shuangge Ma (Ph.D. graduate, 2004, UW-Madison)
9. Guang Cheng (Ph.D. graduate, 2006, UW-Madison)
10. Minjung Kwak (Ph.D. graduate, 2006, UW-Madison)
11. Rui Song (Ph.D. graduate, 2006, UW-Madison)
12. Shanhong Guan (Ph.D. graduate, 2007, UW-Madison)
13. Rajat Mukherjee (Ph.D. graduate, 2007, co-advised with Jason P. Fine, UW-Madison)
14. Nivedita Nadkarni (Ph.D. graduate, 2007, UW-Madison)
15. Sang-Hoon Cho (Ph.D. graduate, 2008, co-advised with Richard A. Johnson, UW-Madison)
16. Yufan Zhao (Ph.D. graduate-Biostatistics, 2009, UNC-Chapel Hill)
17. Hongyuan Cao (Ph.D. graduate-Statistics, 2010, UNC-Chapel Hill)
18. Kai Ding (Ph.D. graduate-Biostatistics, 2010, co-advised with Donglin Zeng, UNC-Chapel Hill)
19. Yiyun Tang (Ph.D. graduate-Biostatistics, 2010, UNC-Chapel Hill)
20. Chaeryon Kang (Ph.D. graduate-Biostatistics, 2011, UNC-Chapel Hill)
21. Yingqi Zhao (Ph.D. graduate-Biostatistics, 2012, UNC-Chapel Hill)
22. Ruoqing Zhu (Ph.D. graduate-Biostatistics, 2013, UNC-Chapel Hill)
23. Guanhua (Alan) Chen (Ph.D. graduate-Biostatistics, 2014, UNC-Chapel Hill)
24. Sayan Dasgupta (Ph.D. graduate-Biostatistics, 2014, UNC-Chapel Hill)
25. Steven Hoberman (Ph.D. graduate-Biostatistics, 2014, co-advised with Anastasia Ivanova, UNC-Chapel Hill)
26. Susan Wei (Ph.D. graduate-Statistics, 2014, co-advised with J. Stephen Marron, UNC-Chapel Hill)
27. Pourab Roy (Ph.D. graduate-Biostatistics, 2015, co-advised with Jason P. Fine, UNC-Chapel Hill)
28. Xin Zhou (Ph.D. graduate-Biostatistics, 2015, UNC-Chapel Hill)
29. Emily Butler-Bente (Ph.D. graduate-Biostatistics, 2016, co-advised with Eric B. Laber, UNC-Chapel Hill)
30. Sebastian Teran Hidalgo (Ph.D. graduate-Biostatistics, 2016, co-advised with Michael C. Wu, UNC-Chapel Hill)
31. Anna Bellach (Ph.D. graduate-Biostatistics, 2017, co-advised with Theis Lange and Jason P. Fine, University of

Copenhagen)

32. Monica Chaudhari (Dr.PH. dissertator-Biostatistics, 2017, UNC-Chapel Hill)
33. Jingxiang (Sean) Chen (Ph.D. graduate-Biostatistics, 2017, co-advised with Yufeng Liu, UNC-Chapel Hill)
34. Jonathan Hibbard (Ph.D. graduate-Biostatistics, 2017, UNC-Chapel Hill)
35. Yifan Cui (Ph.D. graduate-Statistics, 2018, co-advised with Jan Hannig, UNC-Chapel Hill)
36. Daniel J. Lockett (Ph.D. graduate-Biostatistics, 2018, co-advised with Eric B. Laber, UNC-Chapel Hill)
37. Michael Lawson (Ph.D. graduate-Biostatistics, 2019, UNC-Chapel Hill)
38. Owen Leete (PhD graduate-Biostatistics, 2019, UNC-Chapel Hill)
39. Crystal Nguyen (PhD graduate-Biostatistics, 2019, UNC-Chapel Hill)
40. Arkopal Choudhury (Ph.D. graduate-Biostatistics, 2020, UNC-Chapel Hill)
41. Xiaotong (Phoebe) Jiang (Ph.D. graduate-Biostatistics, 2020, UNC-Chapel Hill)
42. Benjamin Langworthy (Ph.D. graduate-Biostatistics, 2020, UNC-Chapel Hill)
43. Duyeol Lee (Ph.D. graduate-Statistics, 2020, co-advised with Kai Zhang, UNC-Chapel Hill)
44. Hunyong Cho (PhD graduate-Biostatistics, 2021, UNC-Chapel Hill)
45. Teeranan (Ben) Pokaprakarn (PhD graduate-Biostatistics, 2021, UNC-Chapel Hill)
46. Nikki L.B. Freeman (PhD graduate-Biostatistics, 2022, UNC-Chapel Hill)
47. Gilson Honvah (DrPH graduate-Biostatistics, 2022, UNC-Chapel Hill)
48. Siyeon Kim (PhD graduate-Biostatistics, 2023, UNC-Chapel Hill)
49. Kushal Shah (PhD graduate-Biostatistics, 2023, UNC-Chapel Hill)
50. John Sperger (PhD graduate-Biostatistics, 2023, UNC-Chapel Hill)
51. Helal El-Zaatari (PhD graduate-Biostatistics, 2024, UNC-Chapel Hill)
52. Tarek Zikry (PhD graduate-Biostatistics, 2024, co-advised with Jeremy Purvis, UNC-Chapel Hill)
53. Daniel De Marchi (PhD dissertator-Biostatistics, 2023, UNC-Chapel Hill)
54. Dongneuck (East) Lee (PhD dissertator-Biostatistics, 2023, co-advised with J. Stephen Marron and Yao Li, UNC-Chapel Hill)
55. Minxin Lu (PhD dissertator-Biostatistics, 2023, UNC-Chapel Hill)
56. Michael Valancius (PhD dissertator-Biostatistics, 2023, UNC-Chapel Hill)
57. Joshua Zitovsky (PhD dissertator-Biostatistics, 2023, UNC-Chapel Hill)
58. Forest E. Hurley (PhD student-Biostatistics, 2023, UNC-Chapel Hill)
59. Jane She (PhD student-Biostatistics, 2023, UNC-Chapel Hill)
60. Christina Zhou (PhD student-Biostatistics, 2023, UNC-Chapel Hill)

M.S. STUDENT SUPERVISION:

Zheng Ren (M.S. graduate-Biostatistics, UNC-Chapel Hill, 2011)
Crystal Nguyen (M.S. graduate-Biostatistics, UNC-Chapel Hill, 2018)
Ram Sankar Basak (M.S. graduate-Statistics and Operations Research, UNC-Chapel Hill, 2023)

BSPH HONORS THESIS SUPERVISION:

Mengbing Li (BSPH graduate with highest honors-Biostatistics, UNC-Chapel Hill, 2017)
Tarek M. Zikry (BSPH graduate with highest honors-Biostatistics, UNC-Chapel Hill, 2019)
Yating Zou (BSPH graduate with highest honors-Biostatistics, UNC-Chapel Hill, 2022)

POSTDOCTORAL FELLOW MENTORING:

Rui Song, Ph.D. (2006-2008, UNC-Chapel Hill). Now: Professor of Statistics at North Carolina State University.
Yair Goldberg, Ph.D. (2009-2011, UNC-Chapel Hill). Now: Associate Professor and Vice Dean of Graduate Studies at the Technion-Israel Institute of Technology.
Daniel J. Lockett, Ph.D. (2018-2019, UNC-Chapel Hill). Now: Health Data Scientist at Genospace (Boston, MA).
Xinyi Li, Ph.D. (2019-2020, UNC-Chapel Hill). Now: Assistant Professor of Mathematical and Statistical Sciences at Clemson University.
Hunyong Cho, Ph.D. (2021-2022, UNC-Chapel Hill). Now: Postdoctoral Scientist at Amazon.
Lina M. Montoya, Ph.D. (2021- , UNC-Chapel Hill)
Teeranan (Ben) Pokaprakarn, Ph.D. (2022-2023, UNC-Chapel Hill). Now: Assistant Professor of Medicine at the University of North Carolina at Chapel Hill
Nikki L.B. Freeman, Ph.D. (2023-, UNC-Chapel Hill)
John Sperger, Ph.D. (2024-, UNC-Chapel Hill)

UNC-CHAPEL HILL SERVICE:

Chair of Biostatistics Department (2006-2016, 2017-2020)
Served on numerous student thesis committees for the Department of Biostatistics and for other departments
Director of NC TraCS (CTSA) Biostatistics Core (2008-present)

School of Nursing Strategic Planning Advisory Committee (2018)
 University Facilities and Administrative Review Task Force (2009-2012)
 University Clinical Trials Task Force (2016-2017)
 University Data Science Initiative (2016-2019)
 University Undergraduate Race-Neutral Strategies Working Group (2016-2020)
 Chair, Data Science @ Carolina Research Subcommittee (2019)
 Vice Chancellor for Information Technology and Chief Information Officer Search Committee (2019)
 Chair, Data Science at Carolina Phase II Pre-Implementation Committee (2020)
 School of Data Science and Society Implementation Committee (2021)
 UNC Faculty Committee on Research (2021-)
 School of Data Science and Society Research Advisory Council (2022-)
 Chair, Gillings School Search Committee for Chair of Nutrition Department, (2022-2023)

Courses Taught:

Fall 2015	Biostatistics 600 (Co-Instructor): Principles of Statistical Inference
Fall 2019, 2021	Biostatistics 740: Precision Medicine
Fall 2008, 2010, 2012, 2014, 2017, 2020, 2022, 2023	Biostatistics 760: Advanced Probability and Statistical Inference (I)
Spring 2008, 2010, 2012, 2014, 2016	Biostatistics 791: Empirical Processes and Semiparametric Inference

UW-MADISON SERVICE:

Search and Screen Committee for General Clinical Research Center Director (Fall 1996-Spring 1997)
 State Employee Combined Campaign Coordinator for the Medical School (Fall 1999)
 College of Letters and Science, Faculty Appeals Committee (Spring 1999-Spring 2003)
 Medical School Tenure and Promotions Committee (Fall 2004-Spring 2006)
 Served on numerous student thesis committees for the Department of Statistics and for other departments

Department of Statistics Committees:

Masters Exam Committee (Fall 1992 - Fall 1995), Chair (Fall 1994 – Spring 1995)
 Admissions Committee (Spring 1996 - Fall 2001), Chair (Fall 1998 – Spring 2001)
 ADA Liaison (Fall 1996)
 New Student Revising and Review (Fall 1998-Spring 1999)
 Ph.D. Qualifier Exam Committee (Fall 1999-Fall 2006), Chair (Fall 2002 – Fall 2006)
 Chair, Faculty Search Committee (Fall 2004-Spring 2005)

Department of Biostatistics and Medical Informatics Committees:

Co-Chair, Biostatistics Consulting Seminar Series (Fall 1992 to Spring 1993)
 Chair, Biostatistics Student Seminar Series (Fall 1993 to Spring 1994)
 Member, Biostatistics Training Program Committee (Fall 1998 to Spring 2006)
 Director, Summer Research Program in Biostatistics (Fall 1999 to Spring 2001, Fall 2002 to Summer 2005)

Courses Taught:

Fall 1992, Spring 1993	Statistics 201 (Introductory Statistics)
Fall 2002	Statistics 312 (Introduction to Mathematical Statistics)
Fall 1994, 1995, 1996	Statistics 541 (Introduction to Biostatistics)
Spring 2004, 2006	Statistics 732 (Large Sample Theory of Statistics)
Spring 1995, 1997, 1999	Statistics 741 (Survival Analysis)
Fall 1993	Statistics 992 (Counting Processes and Survival Analysis)
Spring 2001, 2005	Statistics 992 (Empirical Processes and Semiparametric Inference)
Spring 1994, 1996, 1998, 2000, 2003	Statistics 998 (Statistical Consulting)
Fall 2003, 2004, 2005	

03/05/2024