

Daniel John Nordman

Curriculum Vitae

3212 Snedecor Hall
Iowa State University
Ames, Iowa 50011, USA

dnordman@iastate.edu
(515) 294-7777 (office)

EMPLOYMENT

Professor	Department of Statistics Iowa State University, Ames, IA	2015–present
Courtesy Appointment	Department of Industrial and Manufacturing Systems Engineering Iowa State University, Ames, IA	2017–present
Associate Professor	Department of Statistics Iowa State University, Ames, IA	2010–2015
Assistant Professor	Department of Statistics Iowa State University, Ames, IA	2005–2010
	Mathematics Department University of Wisconsin - La Crosse, WI	2004–2005
Research Assistant	Department of Statistics University of Dortmund, Germany	2002–2004

EDUCATION

Ph.D., Statistics	Iowa State University, Ames, IA	2002
M.S., Statistics	Iowa State University, Ames, IA	1999
B.A., Mathematics	Saint John's University, Collegeville, MN	1996

RESEARCH INTERESTS

Resampling (bootstrap, empirical likelihood, subsampling), Dependence (orientation data, networks, time series, spatial statistics), Prediction (machine learning, reliability)

RESEARCH MANUSCRIPTS

(A) Refereed Journal Publications (Italicized names are students)

64. *Yu, H.*, Kaiser, M.S., and Nordman, D.J. (2023). A subsampling perspective for extending the validity of state-of-the-art bootstraps in the frequency domain. To appear in **Biometrika**.
63. *Yeon, H.*, Dai, X. and Nordman, D.J. (2023). Bootstrap inference in functional linear regression models with scalar response. To appear in **Bernoulli**.
62. *Zhang, Q.*, Lahiri, S.N., and Nordman, D.J. (2022). On optimal block resampling for Gaussian-subordinated long-range dependent processes. **The Annals of Statistics**, 50, 3619–3646.

61. *Tian, Q.*, Nordman, D.J., and Meeker, W.Q. (2022). Constructing prediction intervals using the likelihood ratio statistic. **INFORMS Journal on Data Science**, 1, 63–80.
60. *Tian, Q.*, Nordman, D.J., and Meeker, W.Q. (2022). Methods to compute prediction intervals: a review and new results. **Statistical Science**, 37, 580–597.
59. *Castleton, E.*, Kaiser, M.S., and Nordman, D.J. (2022). Modeling transitivity in local structure graph models. **Sankhya, A.**, 84, 389–417.
58. *Tian, Q.*, Meng, F., Nordman, D.J., and Meeker, W.Q. (2022). Predicting the number of future events. **Journal of the American Statistical Association**, 117, 1296–1310.
57. *Castleton, E.*, Kaiser, M.S., and Nordman, D.J. (2021). Local structure graph models with higher-order dependence. **Canadian Journal of Statistics**, 49, 497–513.
56. *Basulto-Elias, G.*, Carriquiry, A.L., De Brabanter, K., and Nordman, D.J. (2021). Bivariate kernel deconvolution with panel data. **Sankhya: Series B**, 83, 122–151.
55. *Zhang, H.*, *Zimmerman, J.*, Nettleton, D., and Nordman, D.J. (2020). Random forest prediction intervals. **The American Statistician**, 74, 392–406.
54. *Kaplan, A.*, Vardeman, S.B., and Nordman, D.J. (2020). On the S-instability and degeneracy of discrete deep learning models. **Information and Inference: A Journal of the Institute of Mathematics & its Applications (IMA)**, 9, 627–655.
53. *Kaplan, A.*, Kaiser, M. S., Lahiri, S.N., and Nordman, D.J. (2020). Simulating Markov random fields with a conclave-based Gibbs sampler. **Journal of Computational and Graphical Statistics**, 29, 286–296.
52. *Van Hala, M.*, Bandyopadhyay, S., Lahiri, S.N., and Nordman, D.J. (2020). A general frequency domain method for assessing spatial covariance structure. **Bernoulli**, 26, 2463–2487. (*‘Bernoulli Journal read paper’ prize winner*)
51. *Kaplan, A.*, Vardeman, S.B., and Nordman, D.J. (2019). Properties and Bayesian fitting of restricted Boltzmann machines. **Statistical Analysis and Data Mining**, 12, 23–38.
50. *Tewes, J.*, Politis, D.N., and Nordman, D.J. (2019). Convolved subsampling estimation with applications to block bootstrap. **The Annals of Statistics**, 47, 468–496.
49. Lahiri, S.N., Das, U., and Nordman, D.J. (2019). Empirical likelihood for a long range dependent process subordinated to a Gaussian process. **Journal of Time Series Analysis**, 40, 447–466.
48. Gregory, K., Lahiri, S.N., and Nordman, D.J. (2018). A smoothed block bootstrap for quantile regression with time series. **The Annals of Statistics**, 46, 1138–1166.
47. *Basulto-Elias, G.*, Carriquiry, A. L., De Brabanter, K., and Nordman, D.J. (2018). “fourerir”: An R package to compute Fourier integrals. **The R Journal**, 2, 72–83.
46. *Kim, Y.-M.*, Lahiri, S. N., and Nordman, D.J. (2018). Nonparametric estimation of spectral densities under long-range dependence. **Journal of Time Series Analysis**, 39, 380–401.
45. *Castleton, E.*, Kaiser, M.S., and Nordman, D.J. (2017). A local structure graph model for network analysis. **Statistics and Its Interface**, 10, 355–367.

44. Kaplan, A., Hofmann, H., and Nordman, D.J. (2017). An interactive graphical method for community detection in network data. **Computational Statistics**, 32, 535–557.
43. Van Hala, M., Bandyopadhyay, S., Lahiri, S.N., and Nordman, D.J. (2017). On the non-standard distribution of empirical likelihood estimators with spatial data. **Journal of Statistical Planning and Inference**, 187, 109–114.
42. Liu, J., Meeker, W.Q., and Nordman, D.J. (2016). The number of MCMC draws needed to compute Bayesian credible bounds. **The American Statistician**, 70, 275–284.
41. Xu, R., Nettleton, D., and Nordman, D.J. (2016). Case-specific random forests. **Journal of Computational and Graphical Statistics**, 25, 49–65.
40. Du, C., Nordman, D.J., and Vardeman, S.B. (2016). Bayesian inference for a new class of distributions on equivalence classes of three-dimensional orientations with applications to materials science. **Technometrics**, 58, 214–224.
39. Van Hala, M., Nordman, D.J., and Zhu, Z. (2015). An empirical likelihood method for irregular spatial data. **Statistica Sinica**, 25, 1399–1420.
38. Gregory, K., Lahiri, S.N., and Nordman, D.J. (2015). A smoothed extended tapered block bootstrap for time series. **Journal of Time Series Analysis**, 36, 442–461.
37. Bandyopadhyay, S., Lahiri, S.N., and Nordman, D.J. (2015). A frequency domain empirical likelihood for irregularly located spatial data. **The Annals of Statistics**, 43, 519–545.
36. Stanfill, B., Genschel, U., Hofmann, H., and Nordman, D.J. (2015). Nonparametric confidence regions for the central orientation of random rotations. **Journal of Multivariate Analysis**, 135, 106–116.
35. Qiu, Y., Nordman, D.J., and Vardeman, S.B. (2014). A pseudo-likelihood analysis for incomplete warranty data with a time usage rate variable and production counts. **IIE Transactions**, 46, 1–13 (*with Honorable Mention*).
34. Qiu, Y., Nordman, D.J., and Vardeman, S.B. (2014). One-sample Bayes inference for existing symmetric distributions on 3-D rotations. **Computational Statistics and Data Analysis**, 71, 520–529.
33. Qiu, Y., Nordman, D.J., and Vardeman, S.B. (2014). A wrapped trivariate normal distribution for 3-D rotations. **Statistica Sinica**, 24, 897–917.
32. Xu, R., Nettleton, D., and Nordman, D.J. (2014). Predictor augmentation in random forest. **Statistics and Its Interface**, 7, 177–186.
31. Nordman, D.J. and Lahiri, S.N. (2014). A review of empirical likelihood methods for time series. **Journal of Statistical Planning and Inference**, 155, 1–18.
30. Nordman, D.J. and Lahiri, S.N. (2014). Convergence rates of empirical block length selectors for block bootstrap. **Bernoulli**, 29, 958–978.
29. Berry, J.W., Fostvedt, L., Nordman, D.J., Phillips, C.A., Seshadhri, C., and Wilson, A.G. (2014). Statistical properties of algorithms for triangle enumeration. **Internet Math**, 11, 555–571.
28. Kim, Y.-M. and Nordman, D.J. (2013). A frequency-domain bootstrap for Whittle estimation under long-range dependence. **Journal of Multivariate Analysis**, 115, 405–420.

27. Guo, J., Nordman, D.J., and Wilson, A.G. (2013). Bayesian nonparametric models for community detection. **Technometrics**, 55, 390–402.
26. Kim, Y.-M., Lahiri, S.N., and Nordman, D.J. (2013). A progressive block empirical likelihood method for time series. **Journal of the American Statistical Association**, 108, 1506–1516.
25. Nordman, D.J., Bunzel, H., and Lahiri, S.N. (2013). A non-standard empirical likelihood for time series. **The Annals of Statistics**, 41, 3050–3073.
24. Luckew, A., Leandro, L., Bhattacharyya, M., Nordman, D.J., Lightfoot, D., and Cianzio, S. (2013). Usefulness of 10 genomic regions in soybean associated with sudden death syndrome resistance. **Theoretical and Applied Genetics**, 126, 2391–2403.
23. Kaiser, M.S. and Nordman, D.J. (2012). Blockwise empirical likelihood for spatial Markov model assessment. **Statistics and Its Interface**, 5, 303–318.
22. Bingham, M. A., Nordman, D.J., and Vardeman, S.B. (2012). Bayes inference for a tractable new class of non-symmetric distributions for 3-dimensional rotations. **Journal of Agricultural, Biological, and Environmental Statistics**, 17, 527–543.
21. Kaiser, M.S., Lahiri, S.N., and Nordman, D.J. (2012). Goodness of fit tests for a class of Markov random field models. **The Annals of Statistics**, 40, 104–130.
20. Nordman, D.J. and Lahiri, S.N. (2012). Block bootstrap methods in time series regression with fixed regressors. **Journal of the American Statistical Association**, 107, 233–246.
19. Nordman, D.J. and Lahiri, S. N. (2011). On differenced lattice point counts and statistical bias expansions. **Proceedings Mathematical Sciences**, 121, 229–244.
18. Kim, Y.-M. and Nordman, D.J. (2011). Large sample properties of a block bootstrap method under long-range dependence. **Sankhya: Series A**, 73, 79–109.
17. Bingham, M.A., Nordman, D.J., and Vardeman, S.B. (2010). Finite-sample investigation of likelihood and Bayes inference for the symmetric von Mises-Fisher distribution. **Computational Statistics and Data Analysis**, 54, 1317–1327.
16. Nordman, D.J. (2009). A note on the stationary bootstrap’s variance. **The Annals of Statistics**, 37, 359–370.
15. Nordman, D.J. (2009). Tapered empirical likelihood for time series data in time- and frequency-domains. **Biometrika**, 96, 119–132.
14. Davies, P.L., Gather, U., Nordman D.J., and Weinert, H. (2009). Automatic histograms - A comparison of methods. **European Series in Applied and Industrial Mathematics: Probability & Statistics (ESAIM:P&S)**, 13, 181–196.
13. Bingham, M.A., Nordman, D.J., and Vardeman, S.B. (2009). A tractable class of distributions for rotations in 3 dimensions and some applications to measured crystal orientations. **Journal of the American Statistical Association**, 104, 1385–1397.
12. Nordman, D.J., Vardeman, S.B., and Bingham, M.A. (2009). Uniformly hyper-efficient Bayes inference in a class of non-regular problems. **The American Statistician**, 63, 234–238.

11. *Bingham, M.A., Vardeman, S.B., and Nordman, D. J. (2009). Bayes one-sample and one-way random effects analyses for 3-d orientations with application to material science. **Bayesian Analysis**, 4, 607–630.*
10. Nordman, D.J. (2008). A blockwise empirical likelihood for spatial data. **Statistica Sinica**, 18, 1111–1129.
9. Nordman, D.J. (2008). Empirical likelihood for spatial regression. **Metrika**, 68, 351–363.
8. Nordman, D.J. and Caragea, P.C. (2008). Point and interval estimation of variogram models using spatial empirical likelihood. **Journal of American Statistical Association**, 103, 350–361.
7. Nordman, D.J., Lahiri, S.N., and Fridley, B.L. (2007). Optimal block size for variance estimation by a spatial block bootstrap method. **Sankhya: Series A**, 69, 468–493.
6. Nordman, D.J., Sibbertsen, P., and Lahiri, S.N. (2007). Empirical likelihood for the mean under long-range dependence. **Journal of Time Series Analysis**, 28, 576–599.
5. Kaiser, M.S. and Nordman, D.J. (2007). Discussion of Paper by Mendel Fygenon. **Statistica Sinica**, 18, 63–68.
4. Nordman, D.J. and Lahiri, S.N. (2006). A frequency domain empirical likelihood for short- and long-range dependence. **The Annals of Statistics**, 34, 3019–3050.
3. Nordman, D.J. and Lahiri, S.N. (2005). Validity of sampling window method for linear long-range dependent processes. **Econometric Theory**, 21, 1087–1111.
2. Nordman, D.J. and Lahiri, S.N. (2004). On optimal spatial subsample size for variance estimation. **The Annals of Statistics**, 32, 1981–2027.
1. Nordman, D.J. and Meeker, W.Q. (2002). Weibull prediction intervals for a future number of failures. **Technometrics**, 44, 15–23.

(B) Refereed Conference Proceedings

1. Berry, J. W., *Fostvedt, L.*, Nordman, D. J., Phillips, C. A., Seshadhri, C., and Wilson, A. G. (2014). Why do simple algorithms for triangle enumeration work in the real world? **Innovations in Theoretical Computer Science**, 5th Conference Proceedings, 225–234.

(C) Invited Discussions

1. Nordman, D.J. and Lahiri, S.N. (2016). Discussion of “Bootstrap prediction intervals for linear, nonlinear, and nonparametric autoregressions” by L. Pan & D.N. Politis. **Journal of Statistical Planning and Inference**, 177, 35–40.

(D) Book Chapters

1. Nordman, D.J. and Lahiri, S.N. (2003). On optimal variance estimation under different spatial subsampling schemes. In **Recent Advances and Trends in Nonparametric Statistics**. M. G. Akritas, D. N. Politis, (eds.) Elsevier, North Holland.

(E) Book Reviews

1. Review of Polansky, A. (2009). “Observed Confidence Levels: Theory and Application”, **Journal of the American Statistical Association**, 104, 863–864.

PRESENTATIONS (since 2014 with 26 invited/18 contributed talks prior)

- 2023** A hybrid empirical likelihood for time series. Invited talk, **International Indian Statistical Association Annual Conference**, June 3.
- 2021** Within-sample prediction. Invited talk, **Washington University (St. Louis)**, Oct 20.
- A within-sample prediction problem. Invited talk, **Colorado State University**, May 3.
- Within-sample prediction of a future number of events. Invited talk, **University of South Carolina**, March 23.
- Within-sample prediction of a future number of events. Invited talk, **Colorado School of Mines**, Feb 12.
- 2019** A discussion of extending the validity of frequency domain bootstrap methods to general stationary processes. Invited talk, **Recent advances in bootstrap methods: CIREQ Montreal Econometrics Conference**, May 11.
- 2018** Convolved subsampling and the block bootstrap. Invited talk, **4th Conference of the International Society for Nonparametric Statistics (ISNPS)**, Salerno, Italy, June 14.
- Bayes inference for (equivalence classes of) 3-D orientations. Invited talk, **North Carolina State University**, Feb 23.
- 2017** Bayes inference with equivalence classes of 3-D orientations. Invited talk, **Advances in Directional Statistics 2017 Workshop**, Rome, June 9.
- 2016** A smooth block bootstrap for quantile regression with time series. Invited talk, **3rd Conference of the International Society for Nonparametric Statistics (ISNPS)**, Avignon, France, June 13; presented by K. Gregory.
- Goodness of fit tests for spatial Markov random fields. Invited talk, **University of Iowa**, March 30.
- 2015** Goodness of fit tests for spatial Markov random fields. Invited talk, **George Mason University**, Virginia, November 19.
- A spatial resampling approach to goodness of fit tests for spatial Markov random fields. Invited talk, **Workshop on Recent Developments in Statistics for Complete Dependent Data**, Loccum, Germany, August 28.
- An empirical likelihood method for geo-referenced spatial data. Invited talk, **U.S. Census Bureau**, Washington, D.C., July 21.
- 2014** Resampling assessments of scale in geophysical and environmental processes. Invited talk, **Conference of International Indian Statistical Association**, Riverside, CA, July 12.
- A resampling method for assessing scale of geophysical and environmental processes. Invited talk, **2nd Conference of the International Society for Nonparametric Statistics (ISNPS)**, Cadiz, Spain, June 12.
- A frequency domain empirical likelihood for irregularly located dependent data. Invited talk, **Banff International Research Station**, Canada, May 1.

INSTRUCTION

(A) TEACHING

Fall=F, Spring=S, Summer=SS semester courses at Iowa State and University of Wisconsin - La Crosse (UWL). Years in bold indicate an additional distance education section.

Course	Semester	Students	Ave. Stud. Evaluation
STAT 104: Intro. to Stat.	S97, F00	undergraduate	4.34/5.0
STAT 447: Stat. Theory	SS00, S01	graduate, non-stat majors	4.77/5.0
MATH 145: Elementary Stat. (UWL)	F04, S05	undergraduate	4.71/5.0
MATH 341: Prob. & Stat. (UWL)	F04	undergraduate	4.86/5.0
MATH 250: Statistics (UWL)	S05	undergraduate	4.30/5.0
HON 322N: Zombie Statistics	S21	undergraduate	4.33/5.0
STAT 226: Intro Business Statistics	F07, F08	undergraduate	4.24/5.0
STAT 231: Prob. & Stat. for Engineers	F18, S22	undergraduate	4.70/5.0
IE 361: Stat. Quality Assurance	S16, S17, S18	undergraduate	4.42/5.0
STAT 401: Stat. Methods	F05, F06	graduate, non-stat majors	4.65/5.0
STAT 542: Stat. Theory I	F12, F14 , F17	graduate, stat majors	4.78/5.0
STAT 543: Stat. Theory II	S06, S07 , S08, S09 , S11, S13	graduate, stat majors	4.78/5.0
STAT 551: Time Series	F08, F10, F13 , F15, F18 , F19, F20	graduate, stat majors	4.69/5.0
STAT 587W: Stat. Methods	F20	graduate, non-stat majors	4.65/5.0
STAT 642: Advanced Prob. Theory	F09, F11	graduate, stat majors	4.81/5.0
STAT 642: Prob. Theory (2nd version)	S14, S15, S19, S21	graduate, stat majors	4.97/5.0
STAT 643: Advanced Theory Stat.	F16, F20, F21	graduate, stat majors	4.73/5.0
STAT 651: Advanced Time Series	S10, F12, S16, F19	graduate, stat majors	4.68/5.0

(B) GRADUATE STUDENT ADVISING (ISU):

CURRENT

Eva Biswas (Ph.D., Statistics)

Steve Conner (M.S., Statistics), Co with Bill Meeker

COMPLETED (18 Ph.D., 9 M.S.) (Current positions are italicized.)

Mark Yu, (Ph.D., Statistics, 2023), Co with Mark Kaiser
-Assistant Professor of Statistics, University of Rhode Island

Hyemin Yeon, (Ph.D., Statistics, 2023), Co with Xiongtao Dai
-Post-doctoral Researcher, North Carolina State University

Qihao Zhang (Ph.D., Statistics, 2022)
-Quant Researcher, Beijing

Scott Stumbaugh, (M.S., Statistics, 2021), Co with Steve Vardeman
-Director, Predictive Modeling and Strategic Analytics, gettacar.com

Qinlong Tian, (Ph.D., Statistics, 2021), Co with Bill Meeker
-Assistant Professor of Statistics, University of Waterloo

Ian Mouzon (Ph.D., Statistics, 2020), Co with Steve Vardeman
-Adjunct Professor, Yeshiva University, New York City

Yeng Miller-Cheng, (M.S., Statistics, 2020)
-Senior Data Scientist, General Mills, Minnesota

Katie Rey (Ph.D., Statistics, 2018), Co with Steve Vardeman
-Statistician, Steelcase, Michigan

Kenny Wakeland (Ph.D., Statistics, 2017), Co with Mark Kaiser
-Statistician, Boehringer-Ingelheim Animal Health, Georgia

Andee Kaplan (Ph.D., Statistics, 2017), Co with Steve Vardeman
-Assistant Professor, Department of Statistics, Colorado State University

Eduardo Trujillo-Rivera (Ph.D., Statistics, 2017), Co with A. Carriquiry & K. De Brabanter
-Research Assistant Professor, George Washington University School of Medicine and Health Sciences, Washington D.C.

Guillermo Basulto-Elias (Ph.D., Statistics, 2016), Co with A. Carriquiry & K. De Brabanter
-Research Associate, Institute for Transportation, Iowa State University

Jeremy Lis (M.S., Statistics, 2015)
-Advanced Analytics Modeler, Sentry, Wisconsin

Emily Casleton (Ph.D., Statistics, 2014), Co with Mark Kaiser
-Statistician, Los Alamos National Laboratory, New Mexico

Matt Van Hala (Ph.D., Statistics, 2014)
-Predictive Modeler, Great West Casualty Company, Nebraska

Yu Xie (M.S., Statistics, 2014)
-Senior Software Engineer, Microsoft

Andee Kaplan (M.S., Statistics, 2014), Co with Heike Hofmann

Chuanlong Du (Ph.D., Statistics, 2014), Co with Steve Vardeman
-Applied Researcher, eBay

Jia Liu (Ph.D., Statistics, 2013), Co with Bill Meeker
-Associate Director, Pfizer

Ruo Xu (Ph.D., Statistics, 2013), Co with Dan Nettleton
-Software Engineer, Google

Yu Qiu (Ph.D., Statistics, Fall 2012), Co with Steve Vardeman
-Data Science Manager, Plymouth Rock Assurance, New Jersey

Young Min Kim (Ph.D., Statistics, Spring, 2012)
-Associate Professor of Statistics, Kyungpook National University, South Korea

Luke Fostvedt (M.S., Statistics, Fall, 2010)
-Statistician, Clinical Pharmacology, Pfizer

Yu Qui (M.S., Statistics, Fall, 2010), Co with Steve Vardeman

Melissa Bingham (Ph.D., Statistics, Spring, 2009), Co with Steve Vardeman
-Professor, Mathematics Department, University of Wisconsin - La Crosse

Young Min Kim (M.S., Statistics, Spring, 2009)

Jian Zhang (M.S., Statistics, Fall, 2009)
-Data Scientist, Facebook

GRANTS AND CONTRACTS

National Science Foundation, *Composite resampling inference for dependent data*, PI, sponsored 1 grad student, \$150,000, 9/1/2020-8/31/2023

National Science Foundation, *Nonparametric likelihood enhancements for dependent data*, PI, sponsored 1 grad student, \$120,000, 7/1/2014-6/30/2017.

Sandia National Laboratories, NM, *Statistically significant relational data mining*. Co-PI with Mark Kaiser, sponsored 1 grad student, \$138,000 ISU, 10/1/2012 - 9/30/2013.

National Science Foundation, *Nonparametric likelihood for dependent data*. PI, sponsored 1 grad student, \$169,856, 7/1/2009-6/30/2013.

Sandia National Laboratories, NM, *Statistically significant relational data mining*. Co-PI with Mark Kaiser and Alyson Wilson, sponsored 1 grad student, \$235,000 ISU, 10/1/2010 - 9/30/2012.

Sandia National Laboratories, NM, *Estimative language and statistical relational learning*. Co-PI with Alyson Wilson, sponsored 1 grad student, \$203,729, 5/1/2009 - 9/30/2010.

SERVICE AND PROFESSIONAL PRACTICE

MEMBERSHIPS

American Association for the Advancement of Science, American Statistical Association, Institute of Mathematical Statistics, International Indian Statistical Association, International Society for Nonparametric Statistics

EDITORIAL WORK

Managing Editor, Institute of Mathematical Statistics, 2023–

Associate Editor: *Technometrics*, 2010–2014; *Journal of Planning & Statistical Inference*, 2013–2018; *Sankhya A*, 2022–; *Journal of the American Statistical Association (T&M)*, 2023–

Reviewer (164 papers):

ACIM-SIAM Symposium on Discrete Algorithms (1), *Advances in Statistical Climatology, Meteorology and Oceanography* (1), *American Statistician* (1), *Annals of Statistics* (12), *Bernoulli* (4), *Biometrics* (1), *Biometrika* (3), *Communications in Statistics* (11), *Computational Statistics & Data Analysis* (4) *Ecology* (2), *Econometric Theory* (2), *Electronic Journal of Statistics* (2), *Geodesy and geodynamics* (1) *Journal of Agricultural, Biological & Environmental Statistics* (3), *Journal of American Statistical Association* (7), *Journal of Applied Statistics* (1), *Journal of Australian/New Zealand Statistics* (1), *Journal of Business & Economic Statistics* (1) *Journal of Machine Learning Research* (1), *Journal of Multivariate Analysis* (8), *Journal of Nonparametric Statistics* (3), *Journal of Planning &*

Statistical Inference (9), Journal of Royal Statistical Society (7), Journal of Statistical Computation & Simulation (3), Journal of Statistical Theory & Practice (1), Journal of Statistics: Advances in Theory & Applications (2), Journal of Systems Science & Systems Engineering (1), Journal of Time Series Analysis (7), Lifetime Data Analysis (1), Metrika (4), Scandinavian Journal of Statistics (3), Statistica Sinica (4), Statistical Papers (2), Statistics (3), Statistics & Computing (1), Statistics & its Interface (1), Statistics & Probability Letters (10), Pakistani Journal of Statistics (1), Sankhya (5), Stochastic Processes & their Applications (1), Technometrics (21), Test (3)

OTHER SERVICE

Grant reviews for NSA Mathematical Sciences Program: 2009, 2012, 2013, 2014

External dissertation/promotion reviews: 2009, 2013, 2017, 2020, 2021, 2022

National Science Foundation, Review Panelist: 2010, 2015, 2017

Iowa Chapter, American Statistical Association

Joint Statistical Meetings & Conferences of ISNPS/IISA (roundtable/session chair/organizer)

DEPARTMENTAL AND UNIVERSITY SERVICE

Departmental Committees:

- Admissions Committee, 2009–2010, 2015–2018
- Chair Advisory Committee, 2013–2014, 2015–2016
- Diversity, Equity and Inclusion Committee, 2021–2022
- Exam Committee, 2005–2008, 2009–2010, 2011–2015, 2021–2022
- External Search Committee, 2006–2007, 2012–2013, 2014–2015 (in math & stats), 2017–2019
- Graduate Curriculum Committee, 2010–2012
- Promotion & Tenure Committee, 2016–2021
- Social Committee, 2006–2008, 2021–2022

Mentoring: AGEP/ALLIANCE programs (2007–2010) & Preparing future faculty (2011)

ACADEMIC HONORS AND AWARDS

Dale D. Grosvenor Chair, College of Liberal Arts & Sciences, Iowa State University, 2023–2026.

Outstanding Research Award, College of Liberal Arts & Sciences, Iowa State University, 2022.

Fellow of Institute of Mathematical Statistics, 2021.

Cassling Family Faculty Award for Outstanding Achievement in Teaching, College of Liberal Arts & Sciences, Iowa State University, 2018–2019.

Outstanding Teaching Award, College of Liberal Arts & Sciences, Iowa State University, 2018.

Fellow of American Statistical Association, 2015.

Award for Mid-Career Achievement in Research, College of Liberal Arts & Sciences, Iowa State University, 2015.

Award for Early Achievement in Research, College of Liberal Arts & Sciences, Iowa State University, 2009.

Graduate Teaching & Research Excellence Awards, Iowa State University, 2001, 2002.

George W. Snedecor Award, Department of Statistics, Iowa State University, 2000.

Bachelor of Arts *egregia cum laude*, Mathematics, Saint John's University, 1996.