LILY WANG

Address: Department of Statistics Email: lilywang@iastate.edu Phone (O): (515)294-2617 3218 Snedecor Hall Personal Webpage: Iowa State University Ames, IA 50011, USA https://faculty.sites.iastate.edu/lilywang ACADEMIC HISTORY Education • Ph.D. & M.S. in Statistics, Michigan State University, MI 2007 • M.S. in Mathematics, Tongji University, Shanghai, China 2003 • B.E. in Economics, Tongji University, Shanghai, China 2000 Academic Positions Held • Professor, Statistics, Iowa State University 2020-• Associate Professor, Statistics, Iowa State University 2014-2020 • Adjunct Associate Professor, Statistics, University of Georgia 2014 - 2016• Associate Professor, Statistics, University of Georgia 2013-2014 • Assistant Professor, Statistics, University of Georgia 2007-2013 Other Professional Experience • Financial Economist, US Securities and Exchange Commission 2019-2020 Washington, DC ASA/NSF/BLS Senior Research Fellow, US Bureau of Labor Statistics 2010-2011 Washington, DC • Visiting Scholar, US Census Bureau, Washington, DC Summer 2010 Grants, Honors and Awards • Elected Fellow, American Statistical Association (ASA) 2021 -• COVID-19 Exceptional Effort Research Impact Award, Iowa State University 2021 • Elected Fellow, Institute of Mathematical Statistics (IMS) 2020 -• Elected Member, International Statistical Institute (ISI) 2008 -• National Science Foundation (NSF) Rapid Award (co PI) 2020 - 2021• COVID-19 U.S. Dashboard (Featured on the Amstat News, June 2020) 2020 • US Securities and Exchange Commission (SEC) Award (sole PI) 2019 - 2020• National Science Foundation (NSF) Award (sole PI) 2019 - 2022• National Science Foundation (NSF) Award (sole PI) 2015-2018 • National Science Foundation (NSF) Award (co PI) 2014 - 2018• M. G. Michael Award, University of Georgia 2012 - 2013• Teaching Academy Fellow, University of Georgia 2011 - 2012• Invited Poster Presentation (Featured on the Amstat News, July 2012) 2012

18th Coalition for National Science Funding Exhibition & Reception on Capitol Hill

• National Science Foundation (NSF) Award (co PI)	2011 - 2015
• ASA/NSF/BLS Senior Research Fellowship	2010-2011
• Travel Award, SAMSI Workshop on Analysis of Object Data	2010
• National Science Foundation (NSF) Award (sole PI)	2009–2013
• Travel Award, IMS Young Researcher Conference	2009
• Young Researcher Award, UFL 11th Annual Winter Workshop	2009
• Travel Award, NISS/ASA Writing Workshop held in Denver, Colorado	AUG 2008
• Chinese Government Award for Outstanding Students Abroad	2007
• Dissertation Completion Fellowship, Michigan State University	2007
• Graduate School Fellowship, Michigan State University	SUMMER 2006
• Laha Award, Institute of Mathematical Statistics	2006
• Graduate School Fellowship, Michigan State University	2006
• Laha Award, Institute of Mathematical Statistics	2006
• Young Researcher Fellowship, UFL 8th Annual Winter Workshop	2006
• NSF Travel Support, NISS/SAMSI Workshop	2005
• Teaching Fellowship, Michigan State University	SPRING 2005

SCHOLARLY ACTIVITIES

Research Interests

- Statistical Machine Learning & Data Scicence
- Non-/Semi- parametric Regression Methods
- Financial Econometrics
- Survey Sampling
- Imaging/Spatial-temporal Data Analysis
- High Dimension Data Analysis
- Longitudinal/Functional Data Analysis

Publications

- Refereed Journal Publications [* indicates a student who I am advising or have advised]
 - [1] Wang, G.*, Gu, Z.*, Li, X.*, Yu, S.*, Kim, M.*, Wang, Y.*, Gao, L. and **Wang, L.** (2021). Comparing and integrating US COVID-19 data from multiple sources: a county-level dataset with local features. *Journal of Applied Statistics*. Accepted.
 - [2] Kim, M.*, Gu, Z.*, Yu, S.*, Wang, G.* and **Wang, L.** (2021). Methods, challenges, and practical issues of COVID-19 projection: a data science perspective. *Journal of Data Science*. Accepted.
 - [3] Yu, S.*, Wang, Y.*, **Wang**, L. and Gao, L. (2021+). Spatiotemporal autoregressive partially linear varying coefficient models. *Statistica Sinica*. Accepted.
 - [4] Wang, L., Wang, G.*, Li, X.*, Yu, S.*, Kim, M.*, Wang, Y.*, Gu, Z.* and Gao, L. (2021). Modeling and forecasting COVID-19. AMS: Notices Of The American Mathematical Society, 68, 585–595.

- [5] Kim, M.*, Wang, L. and Zhou, Y. (2021) Spatially varying coefficient models with sign preservation of the coefficient functions. *Journal of Agricultural, Biological and Environmental Statistics*. Forthcoming.
- [6] Yu, S.*, Wang, G.* and Wang, L. (2021). Discussion of "Evaluate the risk of resumption of business for the states of New York, New Jersey and Connecticut via a pre-symptomatic and asymptomatic transmission model of COVID-19". Journal of Data Science. Forthcoming.
- [7] Li, X.*, Wang, L. and Wang, H. (2021+). Sparse learning and structure identification for ultra-high-dimensional image-on-scalar regression. *Journal of the American Statistical Association, Theory and Methods*. In press.
- [8] Yu, S.*, Wang, G.*, Wang, L., and Yang, L. (2021). Multivariate spline estimation and inference for image-on-scalar regression. *Statistica Sinica*, 31, 1–25. [An early version was selected as one of three runners-up of the 2019 ASA Statistics in Imaging Section Student Paper Competition]
- [9] Kim, M.* and Wang, L. (2021). Generalized spatially varying coefficient models. Journal of Computational and Graphical Statistics, 30, 1–10.
- [10] Klinedinst, B.S., Le, S.T., Larsen, B., Pappas, C., Hoth, N.J., Pollpeter, A., Wang, Q., Wang, Y.*, Yu, S.*, Wang, L., Allenspach, K., Mochel, J.P., Bennett, D.A. and Willette, A.A. (2020). Genetic factors of Alzheimer's disease modulate how diet is associated with long-term cognitive trajectories: A UK Biobank Study. *Journal of Alzheimer's Disease*, 78, 1245–1257.
- [11] Mu, J.*, Wang, G.* and **Wang, L.** (2020). Efficient estimation and model identification for spatially varying coefficient autoregressive models. *Journal of Nonparametric Statistics*, 32, 428–451.
- [12] Cao, G., Wang, S. **Wang**, **L.** (2020). Estimation and inference for functional linear regression models with partially varying regression coefficients. *Stat*, 9, e286.
- [13] Klinedinst, B.S., Meierc, N.F., Larsen, B., Wang, Y.*, Yu, S.*, Mocheld, J.P., Scott, L., Wolff, T., Pollpeterg, A., Pappas, C., Wang, Q., Allenspach, K., Wang, L., Russelli, D., Bennett, D.A., Willette, A.A. (2020). Walking in the light: How history of physical activity, sunlight, and vitamin D account for body fat a UK Biobank study. Obesity, 28, 1428–1437.
- [14] Wang, J., Cao, G., **Wang, L.** and Yang, L. (2020). Simultaneous confidence band for stationary covariance function of dense functional data. *Journal of Multivariate Analysis*, 176.
- [15] Wang, Y.*, Wang, G.*, **Wang, L.** and Ogden, T. (2020). Simultaneous confidence corridors for mean functions in functional data analysis of imaging data. *Biometrics*, 76, 427–437.
- [16] Yu, S.*, Wang, G.*, Wang, L., Liu, C.* and Yang, L. (2020). Estimation and inference for generalized geoadditive models. *Journal of the American Statistical Association*, Theory and Methods, 115, 761–774.
- [17] Wang, L., Wang, G.*, Lai, M. J. and Gao, L. (2020). Efficient estimation of partially linear models for data on complicated domains via bivariate penalized splines over triangulations. *Statistica Sinica*, 76, 427–437.
- [18] Klinedinst, B., Pappas, C., Le, S., Yu, S.*, Wang, Q., Wang, L., Allenspach, K., Mochel, J. and Willette, A. (2019). Aging-related changes in fluid intelligence, muscle and adipose mass, and sex-specific immunologic mediation: a longitudinal UK

- Biobank study. Brain, Behavior, and Immunity, 82, 396–405. [Journal Impact Factor: 6.170]
- [19] Li, X.*, Wang, L. and Nettleton, D. (2019a). Additive partially linear models for ultra-high-dimensional regression. *Stat*, 8(1), e223.
- [20] Li, X.*, Wang, L. and Nettleton, D. (2019b). Sparse model identification and learning for ultra-high-dimensional additive partially linear models. *Journal of Multivariate* Analysis, 173, 204–228.
- [21] Song, X., Wang, L., Ma, S. and Huang, H. (2019). Variable selection for partially linear proportional hazards model with covariate measurement error. *Journal of Nonparametric Statistics*, 31(1), 196–220.
- [22] Datta, G. S., Delaigle, A., Hall, P. and Wang, L. (2018). Semi-parametric prediction intervals in small areas when auxiliary data are measured with error. Statistica Sinica, 28, 2309–2335.
- [23] Cao, G. and Wang, L. (2018). Simultaneous inference for the mean of repeated functional data. *Journal of Multivariate Analysis*, 165, 279–295.
- [24] Mu, J.*, Wang, G.* and **Wang, L.** (2018). Estimation and inference in spatially varying coefficient models. *Environmetrics*. 29:e2485. [Environmetrics's top 20 most downloaded recent papers]
- [25] Wang, L. and Cao, G. (2018). Polynomial spline estimation for generalized partially linear single-index models. *Bernoulli*, 24(2), 1101–1127.
- [26] Yin, S., Zhu, Z., Wang, L., Liu, B., Xie, Y., Wang, G.* and Li, Y. (2018). Regional soil erosion assessment based on sample survey and geostatistics. *Hydrology and Earth System Sciences*, 22, 1695–1712. [5-year journal Impact Factor: 4.819]
- [27] Song, X. and Wang, L. (2017). Partially time-varying coefficient proportional hazards models with error prone time-dependent covariates: an application to the AIDS Clinical Trials Group 175 Data. The Annals of Applied Statistics, 11(1), 274–296.
- [28] Cao, G., Wang, L., Li, Y. and Yang, L. (2016). Oracle-efficient confidence envelopes for covariance functions in dense functional data. *Statistica Sinica*, 26, 359–383.
- [29] Wang, G.* and Wang, L. (2015). Spline estimation and variable selection for single-index prediction models with diverging number of index parameters. *Journal of Statistical Planning and Inference*, 162, 1–19.
- [30] Gu, L., Wang, L., Härdle, W. and Yang, L. (2014). Simultaneous confidence corridor for varying coefficient regression with sparse functional data. *Test*, 23, 806–843.
- [31] Wang, L., Wang, S. and Wang, G.* (2014). Variable selection and estimation for longitudinal survey data. *Journal of Multivariate Analysis*, 130, 409–424.
- [32] Wang, L., Xue, L., Qu, A. and Liang, H. (2014). Estimation and model selection in generalized additive partial linear models for correlated data with diverging number of covariates. *The Annals of Statistics*, 42(2), 592–624.
- [33] Lai, M. J. and **Wang, L.** (2013). Penalized bivariate splines for regression. *Statistica Sinica*, 23(3), 1399–1417.
- [34] Ma, S., Song, Q. and Wang, L. (2013). Simultaneous variable selection and estimation in semiparametric modeling of longitudinal/clustered data. *Bernoulli*, 19(1), 252– 274.

[35] Cao, G., Wang, J., Wang, L. and Todem, D. (2012). Spline confidence bands for functional derivatives. *Journal of Statistical Planning and Inference*, 142(6), 1557– 1570.

- [36] Wang, L., Feng, C.*, Song, Q. and Yang, L. (2012). Efficient semiparametric GARCH modeling of financial volatility. *Statistica Sinica*, 22(1), 249–270.
- [37] Wang, L., Liu, X., Liang, H. and Carroll, R. J. (2011). Estimation and variable selection for generalized additive partial linear models. *The Annals of Statistics*, 39(4), 1827–1851.
- [38] Wang, L. and Wang, S. (2011). Nonparametric additive model-assisted estimation for survey data. *Journal of Multivariate Analysis*, 102(7), 1126–1140.
- [39] Wang, L. (2011). A nonparametric analysis on the environmental Kuznets curve. Environmetrics, 22(3), 420–430.
- [40] Liu, X., Wang, L. and Liang, H. (2011). Estimation and variable selection for semi-parametric additive partial linear model. *Statistica Sinica*, 21(3), 1225–1248.
- [41] Gao, L. and Wang, L. (2011). Security price responses to unexpected earnings: a nonparametric investigation. Statistical Methods and Applications, 20(2), 241–258.
- [42] Wang, L. and Yang, L. (2010). Simultaneous confidence bands for time series prediction function. *Journal of Nonparametric Statistics*, 22(8), 999–1018.
- [43] Wang, L. (2009). Single-index model-assisted estimation in survey sampling. *Journal of Nonparametric Statistics*, 21(4), 487–504.
- [44] Wang, L. and Yang, L. (2009). Spline estimation of single-index models. *Statistica Sinica*, 19(2), 765–783.
- [45] Huang, X., Wang, L., Yang, L. and Kravchenko, A. N. (2008). Management effects on relationships of crop yields with wetness index and precipitation. *Agronomy Journal*, 100(5), 1463–1471. [5-Year Impact Factor: 1.838]
- [46] Wang, L. and Yang, L. (2007). Spline-backfitted kernel smoothing of nonlinear additive autoregression model. *The Annals of Statistics*, 35(6), 2474–2503.
- [47] Wang, L. and Liang, H. (2004). Strong uniform convergence for the improved estimator of the regression function under φ -mixing Conditions. *Metrika*, 59(3), 245–261.
- [48] Liang, H. and Wang, L. (2001). Convergence rates in the law of large numbers for B-valued random elements. *Acta Mathematica Scientia, Series B*, 21(2), 229–236.

Software Packages and Shiny Apps Developed

- R Packages
 - [1] FDAimage: functional regression methods for imaging data 2020 https://github.com/funstatpackages/FDAimage
 - [2] ImageSCC: simultaneous confidence corridors for mean functions of imaging data 2020 https://github.com/funstatpackages/ImageSCC
 - [3] TPST: tensor product splines over triangular prism partitions

 https://github.com/funstatpackages/TPST
 - [4] STARX: Spatiotemporal autoregressive model with exogenous variables https://github.com/funstatpackages/STARX
 - [5] SVCM: spatially varying coefficient models 2020 https://github.com/funstatpackages/SVCM

[6]	CDCAR: COVID-19 data checking and repairing	2020
	https://github.com/covid19-dashboard-us/cdcar	
[7]	STEM: Spatiotemporal epidemic model	2020
	https://github.com/covid19-dashboard-us/STEM	
[8]	GgAM: generalized geoadditive models	2019
	https://github.com/funstatpackages/GgAM	
[9]	BPST: Bivariate penalized spline smoothing over triangulation	2019
	https://github.com/funstatpackages/BPST	
[10]	Triangulation: arbitrary polygonal domain triangulation	2019
	https://github.com/funstatpackages/Triangulation	

- COVID-19 U.S. Dashboard
 - [1] Wang, L., Wang, G., Gao, L., Li, X., Yu, S., Kim, M. and Wang, Y. (2020). An R shiny app to visualize, track, and predict a7-day infected and death cases of COVID-19 in the United States. https://covid19.stat.iastate.edu
 - [2] Wang, L., Wang, G., Gao, L., Li, X., Yu, S., Kim, M., Wang, Y. and Gu, Z. (2020). A Shiny App to predict infected and death cases of COVID-19 in the U.S. for the next four months. https://covid19.stat.iastate.edu/longtermproj.html

Grants/Funds Received

- Census Bureau, Principal Investigator Approved Proposal to Establish a Branch of the Central Plains Research Data Center at Iowa State University
- National Science Foundation 2050264
 Co-Principal Investigator (PI: Jane Rongerude: \$60,000)
 09/01/2020-08/31/2021
 Title: RAPID: Keeping Shelters in Place: Understanding Residential Landlord Decision-making During the COVID-19 Pandemic
- National Science Foundation DMS-1916204
 Sole Principal Investigator (\$124,999)
 Title: Statistical Modelling and Inference for Next-Generation Functional Data
- US Securities and Exchange Commission Sole Principal Investigator (\$230,686) 09/10/2019-08/31/2020
- National Science Foundation CCF-1934884 Senior Personnel 10/01/2019-09/30/2022 Title: HDR:TRIPODS: D4 (Dependable Data Driven Discovery) Institute
- National Science Foundation DMS-1542332
 Sole Principal Investigator (\$99,999)
 O7/01/2014-07/31/2018
 Statistical Inference for Functional Data in Time Series and Survey Sampling: Theory and Methods
- National Science Foundation SES-1357585 Co-Principal Investigator (PI: Robert Belli: \$300,000) 08/01/2014-07/31/2018 Central Plains Census Research Data Center

• National Science Foundation DMS-1106816 Co-Principal Investigator (PI: Xiao Song: \$149,966) 08/01/2011-07/31/2015 Novel nonparametric methods for prognosis studies with missing covariates • The M. G. Michael Award Sole Principal Investigator (\$3,000) 07/01/2013-06/30/2014 Quantile regression analysis of data from complex surveys • National Science Foundation DMS-0905730 Sole Principal Investigator (\$100,200) 07/01/2009-06/30/2013 Nonparametric estimation with applications to large and complex survey data • Provost Travel Funds 2012 — to attend the Fourth International Conference on Establishment Surveys in Montreal, Canada (\$2,500) • ASA/NSF/BLS Research Fellowship Sole Principal investigator (\$77,000) 08/01/2010-08/14/2011 Flexible and robust estimation for complex survey sampling • Provost Travel Funds, University of Georgia 2012— to attend the ICES Conference in Montréal, Canada (\$2,500) • Provost Travel Funds, University of Georgia 2010 — to attend the Joint Statistical Meetings in Vancouver, Canada (\$2,340) • US Census Bureau, contract 2010 Sole Principal investigator (\$5,000) • President's Venture Fund, University of Georgia 2009 — to attend ICSA Applied Statistics Symposium, in San Francisco, CA (\$2,114) Professional Membership

• Elected Fellow, American Statistical Association (ASA)	2021 -
• Elected Fellow, Institute of Mathematical Statistics (IMS)	2020-
• Elected Member, International Statistical Institute (ISI)	2008-
• Member, American Statistical Association (ASA)	2007-
• Member, International Chinese Statistical Association (ICSA)	2007 -
Member, Bernoulli	2015-

Presentations

- Conference Presentations/Talks (*: invited discussant)
 - 1. ICSA 2020 Applied Statistics Symposium-Houston, DEC 13-16, 2020.
 - 2. Joint Statistical Meetings[†], AUG 2–6, 2020, Virtual Conference.
 - 3. The Webinar Series: "Data Science in Action in Response to the Outbreak of COVID-19, May 1, 2020".
 - 4. 2019 ICSA China Conference, JUL 1-4, 2019, Tianjin, China.
 - 5. The 3rd International Conference on Econometrics and Statistics (EcoSta 2019), JUN 25–28, 2019, Taichung, Taiwan.
 - 6. The 3rd Lilac International Conference on Application of Statistics (LICAS 2019), JUN 23–25, 2019, Harbin, China.

- 7. Joint Statistical Meetings[†], JUL 28-AUG 2, 2018, Vancouver, BC, Canada.
- 8. IMS Asia Pacific Rim Meeting (IMS-APRM), JUN 26–29, 2018, Singapore.
- 9. The 2nd International Conference on Econometrics and Statistics, JUN 19–21, 2018, Hong Kong, China.
- 10. 2017 International Conference on Data Science, DEC 17–19, 2017, Shanghai, China.
- 11. The Nonparametric Statistics Workshop: Integration of Theory, Methods and Applications, OCT 6–7, 2016, Ann Arbor, MI.
- 12. 2016 IISA International Conference on Statistics, AUG 18–21, 2016, Corvallis, OR.
- 13. Joint Statistical Meetings*, JUL 30-AUG 4, 2016, Chicago, IL.
- 14. ICSA Applied Statistics Symposium, JUN 12–15, 2016, Atlanta, GA.
- 15. 15th Approximation Theory conference, MAY 22–25, 2016, San Antonio, TX.
- 16. Joint conference CFE-CMStatistics, 2015, DEC 11-14, London, UK.
- 17. ICSA and KISS Joint Applied Statistics Symposium, JUN 15–18, 2014, Portland, OR.
- 18. Workshop on "Nonparametric Estimation and Functional Data", JUN 13, 2014, Corvallis, OR.
- 19. Eastern North American Region Meeting*, MAR 16–19, 2014, Baltimore, MA.
- 20. The Second Taihu International Statistics Forum, JUL 6-8, 2013, Suzhou, China.
- 21. Graybill Conference on Modern Survey Statistics, JUN 9–12, 2013, Fort Collins, CO.
- 22. Eastern North American Region Meeting*, MAR 9–13, 2013, Orlando, FL.
- 23. The fourth International Conference on Establishment Surveys (ICES-IV), JUN 11–14, 2012, Montréal, Quebec, Canada.
- 24. Workshop on Biostatistics and Bioinformatics, MAY 4–6, 2012, Atlanta, GA.
- 25. Eastern North American Region Meeting*, APR 1–4, 2012, Washington, DC.
- 26. ICSA Applied Statistics Symposium, JUN 26–29, 2011, New York City.
- 27. SRCOS 2011 Summer Research Conference, JUN 5-8, 2011, McCormick, SC.
- 28. SAMSI Workshop, SEP 11–15, 2010, Research Triangle Park, NC.
- 29. Joint Statistical Meetings, JUL 31-AUG 5, 2010, Vancouver, BC, Canada.
- 30. ICSA Applied Statistics Symposium, JUN 20–23, 2010, Indianapolis, IN.
- 31. ICSA Applied Statistics Symposium*, JUN 20–23, 2010, Indianapolis, IN.
- 32. Joint Statistical Meetings*, AUG 2–7, 2009, Washington, DC.
- 33. Twelfth Meeting of New Researchers in Statistics and Probability, JUL 28–31, 2009, Baltimore, MD.
- 34. ICSA Applied Statistics Symposium, JUN 21–24, 2009, San Francisco, CA.
- 35. Symposium on New Directions in Asymptotic Statistics, MAY 15–16, 2009, Athens, GA.
- 36. Joint Statistical Meetings, AUG 2–7, 2008, Denver, CO.
- 37. Joint Statistical Meetings, AUG 6-10, 2006, Seattle, WA.
- 38. The 69th IMS Annual Meeting, JUL 30-AUG 4, 2006, Rio de Janeiro, Brazil.
- 39. ICSA Applied Statistics Symposium, JUN 14–17, 2006, Storrs, CT.
- 40. The 38th Symposium of the Interface of Statistics, Computer Science and Applications, MAY 24–27, 2006, Pasadena, CA.

• Invited Colloquium/Seminar Ta	alks
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- 1. Department of Mathematics and Statistics, University of North Carolina at Greensboro March 12, 2021
- 2. Department of Biostatistics, University of Nebraska Medical Center DEC 4, 2020
- 3. Department of Mathematics and Statistics, University of Toledo NOV 20, 2020
- 4. Department of Statistics, George Washington University NOV 6, 2020
- 5. Department of Mathematical Sciences, Michigan Technological University OCT 30, 2020
- 6. Department of Mathematical and Statistical Sciences, University of Alberta OCT 28, 2020
- 7. Baker Center Seminar Series, Iowa State University OCT 27, 2020
- 8. Joint Research Data Center Seminar Series, Central University of Finance and Economics & University of Electronic Science and Technology of China, JUL 15, 2020
- 9. Pod of Asclepius, JUN 19, 2020.
- 10. TADS Lunch-n-learn Seminar Series, Iowa State University JUN 11, 2020
- 11. Securities and Exchange Commission Data Science Seminar Series, May 13, 2020.
- 12. Department of Mathematical Sciences, IUPUI OCT 18, 2019
- 13. Department of Statistics, Iowa State University SEP 30, 2019
- 14. Department of Mathematics, College of William & Mary APR 13, 2019
- 15. Department of Statistics, Iowa State University SEP 24, 2018
- 16. Shandong University, China, DEC 14, 2017
- 17. University of International Business and Economics, China, DEC 13, 2017
- 18. Tsinghua University, China, DEC 12, 2017
- 19. ISU Big Data seminar series, Iowa State University

 APR 3, 2017
- 20. CSSM seminar series, Department of Statistics, Iowa State University DEC 2, 2016
- 21. College of Public Health, University of Iowa OCT 22, 2015
- 22. Iowa Social Science Research Center, University of Iowa APR 29, 2015
- 23. ISU Big Data seminar series, Iowa State University

 APR 24, 2015
- 24. ISU Big Data seminar series, Iowa State University DEC 3, 2014
- 25. CSSM seminar series, Department of Statistics, Iowa State

 OCT 24, 2014
- 26. Department of Mathematical Sciences, University of Texas at Dallas MAR 28, 2014
- 27. Department of Statistics, Iowa State University FEB 12, 2014
- 29. Department of Applied Math, Tongji University

 JUN 24, 2013

NOV 8, 2013

28. Department of Mathematics and Statistics, Auburn University

- 29. Department of Applied Wath, Tongji University 5010 24, 2013
- 30. Department of Statistics, University of Georgia JAN 8, 2013
- 31. Department of Statistics, University of Georgia FEB 15, 2012
- 32. US Bureau of Labor Statistics, Washington, DC JUL 14, 2011
- 33. US Bureau of Labor Statistics, Washington, DC MAR 3, 2011
- 34. Department of Statistics, Purdue University JAN 28, 2011
- 35. Department of Statistics, Oregon State University

 JAN 24, 2011

36. Department of Math, Stat & Computer Science,	UIC NOV 23, 2010
37. Department of Mathematics, University of Georg	ia OCT 12, 2010
38. US Census Bureau, Washington, DC	$\rm JUL\ 1216,\ 2010$
39. Department of Biostatistics and Bioinformatics, I	Emory JAN 29, 2009
40. Department of Mathematical Sciences, Clemson U	University OCT 30, 2008
41. Department of Mathematics, Georgia Institute of	Technology OCT 29, 2008
42. Department of Statistics, University of Georgia	OCT 28, 2008
43. Department of Statistics, University of Georgia	SEP 18, 2007
44. Computational Systems Biology Lab, University	of Georgia AUG 30, 2007
45. Department of Mathematics, College of William	and Mary FEB 17–19, 2007
46. School of Industrial & Systems Engineering, George	rgia Tech FEB 14–16, 2007
47. Department of Statistics, George Washington Un	iversity FEB 11–13, 2007
48. Department of Statistics, Penn State University	FEB 7–9, 2007
49. Department of Statistics, University of Georgia	FEB 4–6, 2007
50. Department of Statistics, Colorado State Univers	ity JAN 28–30, 2007
51. Department of Statistics, Indiana University	JAN 25–27, 2007
52. Department of Mathematics, University of Kansa	s JAN 21–23, 2007
53. Department of Math & Stat, California State, Lo	ng Beach JAN 11–13, 2007
54. Department of Management Science, University of	of Miami DEC 10-11, 2006
55. Department of Statistics & Probability, Michigan	State OCT 24, 2006
56. Department of Statistics, Texas A&M University	OCT 5, 2006

• Conference Poster Presentations

- 1. Coalition for National Science Funding Exhibition & Reception on Capitol Hill, MAY 15, 2012, Washington, DC. [Prominently featured on the Amstat News, July 2012]
- 2. University of Florida Winter Workshop, JAN 8–10, 2009, Gainesville, FL.
- 3. University of Florida Winter Workshop, JAN 14-16, 2006, Gainesville, FL.
- 4. NISS/SAMSI workshop on Financial Mathematics, Statistics and Econometrics, SEP 18–21, 2005, RTP, NC.

• Conference/Workshop Attendance

- 1. NISS/SAMSI Cell Suppression Workshop, MAY 14, 2012, Washington, DC.
- 2. 2012 Academic Affairs Faculty Symposium, MAR 23–24, 2012, Unicoi, GA.
- 3. SRCOS 2009 SUMMER Research Conference, JUN 7-10, Jekyll Island, GA.
- 4. Proposal Writing Workshop: Write Winning Grants, JUN 17-18, 2009, Athens, GA.
- 5. SUMMER school on "Multivariate Splines and Their Applications", MAY 11–22, 2009, Athens, GA.
- 6. NISS/ASA Writing Workshop, AUG 3–6, 2008, Denver, CO.

TEACHING EXPERIENCE

Courses Taught @ Iowa State University

 ${\rm current}$

 ${\rm current}$

2021 (expected) 2021 (expected)

• STAT 507X Statistical Learning of Infectious Disease Data A	analysis SPRING 2021
• STAT 486/586 Introduction to Statistical Computing	SPRING 2021
• STAT 542 Theory of Probability and Statistics I	FALL 2020
• STAT 480 Statistical Computing Applications	SPRING 2019
• STAT 542 Theory of Probability and Statistics I	FALL 2018
• STAT 551 Times Series Analysis	FALL 2017
• STAT 480 Statistical Computing Applications	SPRING 2017
• STAT 551 Times Series Analysis	FALL 2016
• STAT 480 Statistical Computing Applications	SPRING 2016
• STAT 401-B Statistical Methods for Research Workers	SPRING 2015
• STAT 551 Times Series Analysis	FALL 2014
Course Development @ University of Georgia	
• STAT 6210 Introduction to Statistical Methods I	FALL 2012
• STAT 8920 Statistical Research & Professional Practice I	FALL 2010
• STAT 6360 Statistical Software Programming	SPRING 2010
Courses Taught @ University of Georgia	
• STAT 4/6290 Non-parametric Statistics	SPRING 2014, 2010, 2009
• STAT 5020 Capstone Course II	SPRING 2014
• STAT 4/6240 Sampling and Survey Methods	FALL 2013, 2012, 2011
• STAT 5010 Capstone Course I	FALL 2013
• STAT 4/6360 Statistical Software Programming	SPRING 2013, 2012
• STAT 8910 Graduate Student Seminar	FALL 2011, 2008
• STAT 8920 Statistical Research & Professional Practice I	FALL 2011, 2010
\bullet STAT 6360 Introduction to SAS and R	SPRING 2010
• STAT 6210 Introduction to Statistical Methods I FALL	2012, 2010, 2009, 2008, 2007
Courses Taught @ Michigan State University	
• STT 430 Introduction to Probability and Statistics	SUMMER 2007
• STT 200 Statistical Methods	SUMMER 2004, 2005
SUPERVISION OF STUDENT RESEARCH	
• Major Advisor/Co-Advisor for PhD students @ Iowa State Unive	ersity
- Kunal Das	current
- Zhiling Gu	current
G 17.	

– Sooran Kim

– Myungjin Kim

- Yueying Wang (co-advising with Zhengyuan Zhu)

– Lin Quan

2020

* Dissertation Title: "Model Estimation, Identification and Inference for Next-ge Functional Data and Spatial Data"	neration
* First job: Tenure-track Assistant Professor at the University of Virginia (202)	0–)
- Rodrigo Plazola-Ortiz (co-advising with Yehua Li)	2020
* Dissertation Title: "Interaction Forward Selection in Ultra-high-dimensional tional Linear Models"	
* First job: Biostatistician, Boehringer Ingelheim (2020–)	
– Jingru Mu	2019
* Dissertation Title: "Spatially Varying Coefficient Models: Theory and Metho	ds"
* First job: Tenure-track Assistant Professor at Kansas State University (2019-	-)
- Jue Wang (co-advising with Steven Hou, Math)	2019
* Dissertation Title: "Studies on Semiparametric Spatial Regression Models"	
* First job: Model Analyst at JP Morgan Chase	
– Xinyi Li	2018
 * Dissertation: "Non/Semi-parametric Learning from Data with Complex Feat * First job: Postdoc fellow at SAMSI (Tenure-track Assistant Professor at Cl University, 2020-) 	
- Chenhui Liu (co-advising with Anuj Sharma, Civil Engineering)	2018
* Dissertation: "Three Essays on Crash Frequency Analysis"	
* First job: Research Associate at FHWA	
Major Advisor/Co-Advisor for PhD students @ University of Georgia	
- Guannan Wang	2015
* Dissertation: "High/Ultra-High Dimensional Single-Index Models"	
* First job: Assistant Professor at College of William & Mary (2015–)	
- Cong Feng	2012
* Dissertation: "Nonparametric Analysis of Complex Time Series"	
* First job: Statistician at Capital One	
Major Advisor for MS students @ Iowa State University	
- Yue Zhang	2019
- Shan Yu	2018
Major Advisor for MS students @ University of Georgia	
– Xinyi Li	2012
- Siyan Hu	2011
POS Committee Member for Iowa State University PhD students	
- Current	1.
Peiyu Cao, Pranamesh Chakraborty, Haoyan Hu, Hyeongseon Jeon, Brandon Kline	edinst,

- Shan Yu (co-advising with Dan Nettleton)

- Completed

Guillermo Basulto-Elias (2016), Ran Bi (2018), Xinyue Chang (2020), Bokan Chen (2016), Brenna Curley (2017), Natalia Da Silva (2017), Fan Dai (2020), Danhyang Lee

Dongjin Li, Jiayi Luo, Sepideh Mosaferi, Jiaming Qiu, Run Wang.

(2019), Zhixia Ma (2016), Seho Park (2018), Daniel Ries (2018), Didem Sari (2017), Qianqian Shan (2020), Fei Song (2018), Kimberly Vanous (2018), Zhenzhong Wang (2020), Zhonglei Wang (2018), Yuhang Xu (2016), Leilei Zhang (2015), Haozhe Zhang (2019), Wei Zhang (2016).

- Advisory Committee Member for University of Georgia PhD students
 Sandra Addo (2014), Haileab Tesfe Hilafu (2014), Hejiao Hu (2014), Adam Jaeger (2015),
 Xinyu Liu (2013), Debin Qiu (2016), Wenhui Sheng (2015), Jin Tang (2013), Wenbo Wu (2015), Kun Xu (2012), Yuan Xue (2013), Amy Vaughan (2009).
- Advisory Committee Member for MS students @ Iowa State University
 Fan Dai (2019), Sisi Hu (2016), Wei Hu (2017), Xiangzhen Li (2017), Rosy Oh (2016), Dinesh
 Poddaturi (2018), Qinglong Tian (2019), Xiaofei Zhang (2018).
- Advisory Committee Member for MS students @ University of Georgia
 Na Hao (2013), Sebastain Nde Awondo (2014), Mitch Muhlheim (2013), Andrew Anderson (2012), Li Li (2012), Qianqian Tang (2012), Kan Bao (2010), Nathan Lekahal (2009).

UNDERGRADUATE ADVISING

- Undergraduate students @ Iowa State University
 - Current: 20 advisees

SERVICES

Service to Governmental Agencies

• Visiting Scholar, US Securities and Exchange Commission	2019-2020
• ASA/NSF/BLS Senior Research Fellow, US Bureau of Labor Statistics	2010-2011
• Visiting Scholar, US Census Bureau	Summer 2010

Service to Iowa State University

• Faculty Representative, ISU Branch of the Central Plains Research Data Center	2016-
• Member of Search Committee, Director of Data Driven Science	2016

Service to The Department @ Iowa State University

• Member of Advisory Committee on Promotion and Tenure	2020 – 2021
• Member of PhD and MS Exam Committee	2020 – 2021
• Member of Search Committee	2018-2019
• Member of Admission Committee	2018 – 2019
• Member of Curriculum Committee	2018 – 2019
• Member of Department Enhancement Project Committee	2017 – 2018
• Member of Undergraduate Committee	2017 – 2019
• Member of Computation Advisory Committee	2015 – 2018
• Member of Advisory Committee to the Chair	2014 – 2017
• Co-Chair of Seminar Committee	2014 – 2015

2014

• Member of Search Committees 2014 - 2015Service to The Department @ University of Georgia • Member of Graduate Committee 2008-2009, 2011-2014 • Co-Chair of Colloquium Committee 2008-2009, 2011-2012, 2013-2014 • Member of Undergraduate Committee 2010-2011, 2012-2013 • Member of Mentoring Committee 2010 - 2013• Member of Research Development Committee 2009 - 2010• Member of Computing Committee 2007-2008 Editorship or Editorial Board Member • Associate Editor for Journal of the Royal Statistical Society: Series B 2020 -• Associate Editor for Journal of Nonparametric Statistics 2019 -• Associate Editor for Statistical Analysis and Data Mining 2018 -• Guest Associate Editor for Statistica Sinica 2016 - 2018(special issue on "Data Not Missing At Random") • Co-editor for Sankhya Series B 2012 - 2016Journal Referee Services (more than 120 articles) • Annals of Management Science • Journal of the Korean Statistical Society • Annals of Applied Statistics • Journal of Nonparametric Statistics • Annals of Statistics • Journal of Multivariate Analysis • Bernoulli • Journal of Probability and Statistics • Biometrics • Journal of Statistical Planning and Inference • Biometrical Journal • Sankhya B • Canadian Journal of Statistics • Science • Communications in Statistics • Science Advances • Computational Statistics and Data Analysis • Statistica Sinica • Electronic Journal of Statistics • Statistical Analysis and Data Mining • International Journal of Environmental Studies • Statistics and Computing • Journal of American Statistical Association • Statistics and Its Interface • Journal of Applied Statistics • Statistics in Medicine • Journal of Business and Economic Statistics • Statistics & Probability Letters • Journal of Computational and Graphical Statistics • Journal of Data Science • Survey Methodology • Journal of the Royal Statistical Society: Series B • The American Statistician Grant Reviews • Panel Reviewer. National Science Foundation 2020 • Proposal Reviewer. National Security Agency 2016 • Proposal Reviewer. Iowa State University 2015

• Panel Reviewer. National Science Foundation

• Proposal Reviewer,	National Security Agency	2014
• Proposal Reviewer,	National Security Agency	2012
• Proposal Reviewer,	University of Toledo Internal Grants	2011
• Proposal Reviewer,	National Security Agency	2010
Evaluating Colleagues		
• Applying for Full Pro-	fessorship with Tenure (1)	2020
• Applying for Associat	e Professorship with Tenure (1)	2020
• Applying for Associat	e Professorship with Tenure (2)	2016
Other Professional Service	ces	
• Member (ASA represe Science Virtual Ser	entative) of the organizing committee, COPSS-NISS COVID-1 ninar Series	19 Data 2021
• Invited Session Organ	izer and Chair, 2021 Joint Statistical Meetings	2021
• Member of the progra	am committee of the 2021 ICSA Applied Statistics Symposium	n 2021
• Invited Session Organ	izer, 2019 ICSA China conference, Nankai University, China	2019
• Invited Session Organi 2018	izer, the 2nd International Conference on Econometrics and St	atistics
• Workshop Organizer, using restricted acc	Central Plains Research Data Center: Opportunities for rese ess data	archers 2017
• Invited Session Organ 2017	izer, the 1st International Conference on Econometrics and St	atistics
• Invited Session Organ	nizer, 2017 ICSA Symposium	2017
• Invited Session Organ	izer, 2015 Joint ICSA Symposium and Graybill Conference	2015
• Invited Session Organ	izer, International Workshop on	2014
— "Non- and Semipo	arametric Volatility and Correlation Models"	
• Invited Session Organ	izer, 2014 Eastern North American Region Meeting	2014
• Invited Session Organ	izer, 2013 ICSA and ISBS Joint Statistical Conference	2013
• Topic Contributed Sea	ssion Organizer, 2013 Joint Statistical Meetings	2013
• Invited participant, 2	012 Coalition for NSF Exhibition and Reception	2012
• Invited Session Organ	izer and Chair, 2012 Joint Statistical Meetings	2012
• Contributed Session C	Chair, 2012 Eastern North American Region Meeting	2012
• Committee Member,	2012 ASA Nonparametric Student Paper Competition	2012
• Contributed Session C	Chair, 2012 Joint Statistical Meetings	2012
• Invited Session Chair,	, 2011 ICSA Applied Statistics Symposium	2011
• Invited Session Organ	izer, 2010 ICSA Applied Statistics Symposium	2010
• Invited Session Chair,	, 2009 ICSA Applied Statistics Symposium	2009
	mber/Invited Session Chair v Directions in Asymptotic Statistics	2009