

# YEHUA LI

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**Position:** (07.2021–now) Chair, Department of Statistics, University of California, Riverside.  
(2018 – now) Professor of Statistics, University of California, Riverside.

## **Education:**

Ph.D., Statistics. Aug. 2006. Texas A&M University, College Station, TX.

M.S., Statistics. Aug, 2003. Texas A&M University, College Station, TX.

B.S., Applied Math. Jun, 2000. Tsinghua University, Beijing, China.

## **Experiences**

2019 –2022 Director, Statistical Consulting Collaboratory, UC Riverside.

01.2020 – 08.2021 Associate Director, Data Science Program, UC Riverside.

2012.08-2017.12 Associate Professor of Statistics, Iowa State University.

2006.08-2012.07 Assistant Professor, University of Georgia, Athens, GA.

2001.08-2006.07 Teaching/Research Assistant, Department of Statistics, Texas A&M University.

2000.08-2001.07 Teaching Assistant, Department of Mathematics, University of Rochester.

## **Honors and Awards:**

- Fellow, Institute of Mathematical Statistics, 2021.
- H.O. Hartley Award, Texas A&M University, 2019.
- Fellow, American Statistical Association, 2019.
- Iowa State University Award for Early Achievement in Research, 2015.
- Elected member of the International Statistical Institute, 2013.
- NSF CAREER Award, 2012.
- William S. Connor Award, Texas A&M University, 2006.
- Emanuel Parzen Graduate Research Fellowship, Texas A&M University, 2005.
- Eva L. & Lee H. Smith Graduate Fellowship, Texas A&M University, 2004.
- AUF Fellowship, Texas A&M University, 2003-2004.
- AUF Fellowship, Texas A&M University, 2001-2002.
- Regents' Fellowship, Texas A&M University, 2001-2002.

## **Editorial Board:**

- Canadian Journal of Statistics, 2019 – 2021.
- Journal of Multivariate Analysis, 2016 – now.
- Stat, Associate Editor, 2015 – now.
- Guest Editor for a special issue on Functional and Objective Data Analysis, Canadian Journal of Statistics, 2021.

## **Research Interests:**

Big data; Non-/Semi-parametric statistical methods; Functional data analysis; Longitudinal data analysis; Spatial statistics; Time series; Bootstrap/sub-sampling; Large sample theory; Measurement error models; Hierarchical models; Mixture models; Monte Carlo EM; Bayesian methods; MCMC algorithms.

## **Grants:**

- “To Spray or Not To Spray?: Using Small Cheap IR sensors to Automate Pest Ant Counts”, **Department of Pesticide Regulation, State of California**, Grant 18-PML-R005, Co-Investigator, (PI: Mark Hoddle), Jul 01, 2018 – Dec 31, 2021. Total budget: \$413, 306. Budget to Co-I Li: \$25,512.
- “Functional Regression and Subgroup Analysis for Asynchronous Longitudinal Data”, **National Institute on Aging** (5R21AG058198), Principal Investigator, \$421,762, Aug 15, 2018 – May 31, 2021.
- “Comparison of the Cardiovascular Benefits of Resistance, Aerobic, and Combined Exercise (Cardio-RACE)”, **National Institutes of Health** (1R01HL133069-01), Co-Investigator (PI: Duck-Chul Lee). Total budget \$3,355,624, (\$118,880 to Co-I Li), Jul 01st, 2016 – Apr 30th, 2022.
- “**CAREER**: New topics in functional data analysis”, **National Science Foundation**, (DMS 1317118), principal investigator, \$400,000, Jun 1<sup>st</sup>, 2012 –May 31<sup>st</sup>, 2017.
- “Dimension reduction, model selection and classification in functional data analysis”, **National Science Foundation** (DMS 1105634), Principal Investigator, \$119,999, Jun 1<sup>st</sup>, 2011- May 31<sup>st</sup>, 2014.
- “Collaborative research: regression problems in functional data”, **National Science Foundation** (DMS-0806131), Principal Investigator, \$100,000, Jun 1<sup>st</sup>, 2008-May 31<sup>st</sup>, 2011.

## **Professional Membership:**

- International Statistical Institute (ISI).
- American Statistical Association (ASA).
- Institute of Mathematical Statistics (IMS).
- International Chinese Statistical Association (ICSA)

## **Published or Accepted Journal Articles:** ( \* student author; § correspondence author)

1. Lee, D.-C., Brellenthin, A. G., Lanningham-Foster, L. M., Kohut, M. L. and **Li, Y.**, (2023) Aerobic, resistance, or combined exercise training and cardiovascular risk profile in overweight or obese adults: the CardioRACE trial, *European Heart Journal* (**IF39.3**), forthcoming.
2. Chang, X. \*, **Li, Yehua.**§ and Li, Yi (2023). Asynchronous and error-prone longitudinal data analysis via functional calibration, *Biometrics*, forthcoming.
3. Zhu, H., Zhang, Y., **Li, Y.** and Liang, H. (2023). Semiparametric function-on-function quantile regression model with dynamic single-index interactions, *Computational Statistics and Data Analysis*, 182, 107727.
4. Park, Y., Li, B. and **Li, Y.**, (2023). Crop yield prediction using Bayesian spatially varying coefficient models with functional predictors, *Journal of the American Statistical Association*, 118, 541, 70-83.
5. Xu, G., Zhang, J., **Li, Y.** and Guan, Y. (2022). Bias-correction and test for mark-point dependence with replicated marked point processes, *Journal of the American Statistical Association*, to appear.
6. Zhu, W. \*, Xu, I., Liu, C. and **Li, Y.**§, (2023). Minimax powerful functional analysis of covariance tests with application to longitudinal Genome-Wide Association Studies, *Scandinavian Journal of Statistics*, 50, 266-295.
7. **Li, Y.**§, Qiu, Y. and Xu, Y. (2022). From multivariate to functional data analysis: fundamentals, recent developments, and emerging areas, *Journal of Multivariate Analysis*, 188, 104806.
8. Huang, J. \*, **Li, Y.**§, Brellenthin, A. G., Lee, D-C, Sui, X. and Blair, S. N. (2022). Causal mediation analysis between resistance exercise and reduced risk of cardiovascular disease based on the Aerobics Center Longitudinal Study, *Journal of Applied Statistics*, 49:14, 3750-3767.

9. Zhang, H.\* and Li, Y.<sup>§</sup> (2022). Unified principal component analysis for sparse and dense functional data under spatial dependence, *Journal of Business & Economic Statistics*, 40, 4, 1523-1537.
10. Zhu, H.\* , Li, Y., Liu, B., Yao, W. and Zhang, R. (2022). Extreme quantile estimation for partial functional linear regression models with heavy-tailed distributions, *Canadian Journal of Statistics*, 50, 1, 267-286.
11. Liu, Y.\* , Li, Y.<sup>§</sup>, Carroll, R. J. and Wang, N. (2022). Predictive functional linear models with diverging number of semiparametric single-index interactions, *Journal of Econometrics*, 230, 2, 221-239.
12. Xu, Y., Li, Y. and Qiu, Y. (2021). Growth dynamics and heritability for plant high-throughput phenotyping studies using hierarchical functional data analysis, *Biometrical Journal*, 63, 1325-1341.
13. Zhu, H.\* , Zhang, R., Li, Y. and Yao, W. (2022). Estimation for extreme conditional quantiles of functional quantile regression, *Statistica Sinica*, 32, 4, 1767-1787.
14. Pan, L.\* , Li, Y.<sup>§</sup>, He, Z. Li, Y. M. and Li, Y. (2020). Generalized linear mixed model with Gaussian mixture random effects: inference and application, *Journal of Multivariate Analysis*, 175, 104555.
15. Brellenthin, A. G., Lanningham-Foster, L. M., Kohut, M. L., Li, Y., Church, T. S., Blair, S. N., and Lee, D.-C. (2019). Comparison of the Cardiovascular Benefits of Resistance, Aerobic, and Combined Exercise (CardioRACE): Rationale, Design, and Methods, *American Heart Journal*, 217, 101-111.
16. Liu, Y., Lee, D.-C., Li, Y., Zhu, W., Zhang, R. Sui, X. Lavi, C. J. and Blair, S. N. (2019). Associations of resistance exercise, independent of aerobic exercise, with cardiovascular disease morbidity and mortality, *Medicine & Science in Sports & Exercise*, 51, 499-508.
17. Wong, R., Li, Y.<sup>§</sup> and Zhu, Z. (2019). Partially linear functional additive models for multivariate functional data, *Journal of the American Statistical Association*, 114, 525, 406-418.
18. Xu, Y.\* , Li, Y.<sup>§</sup> and Nettleton, D. (2018). Nested hierarchical functional data modeling and inference for the analysis of functional plant phenotypes, *Journal of the American Statistical Association*, 113, 593-606.
19. Wang, H, Zhong, P.-S., Cui, Y. and Li, Y. (2018). Unified empirical likelihood ratio tests for functional concurrent linear models and the phase transition from sparse to dense functional data, *Journal of the Royal Statistical Society, Series B*, 80, 2, 343-364.
20. Xu, Y.\* , Kim, J. K. and Li, Y. (2017). Semiparametric estimation in measurement error models with validation data, *Canadian Journal of Statistics*, 45, 2, 185-201.
21. Ye, J., Li, Y., Lazar, N., Schaeffer, D. J. and McDowell, J. (2016). Finding common task-related regions in fMRI Data from multiple subjects by periodogram clustering and clustering ensemble, *Statistics in Medicine*, 35, 2635-2651.
22. Xu, Y.\* , Li, Y.<sup>§</sup> and Song, X. (2016). Locally efficient semiparametric estimation for proportional hazards models with measurement error, *Scandinavian Journal of Statistics*, 43, 558-572.
23. Tang, J.\* , Li, Y.<sup>§</sup> and Guan, Y. (2016). Generalized quasi-likelihood ratio tests for semiparametric analysis of covariance models in longitudinal data, *Journal of the American Statistical Association*, 111, 514, 736-747.
24. Cao, G., Wang, L., Li, Y.<sup>§</sup> and Yang, L. (2016). Oracle-efficient confidence envelopes for covariance functions in dense functional data, *Statistica Sinica*, 26, 359-383.
25. Sattar, A., Sinha, S., Wang, X. and Li, Y. (2015). Frailty models for pneumonia to death with a left-censored covariate, *Statistics in Medicine*, 34, 2266-2280.
26. Ye, J., Li, Y.<sup>§</sup> and Guan, Y. (2015). Joint modeling of longitudinal drug using pattern and time to first relapse in cocaine dependence treatment data, *Annals of Applied Statistics*, 9, 3, 1621-1642.
27. Ye, J., Lazar, N. and Li, Y. (2015). Nonparametric variogram modeling with hole effect structure in analyzing the spatial characteristics of fMRI data, *Journal of Neuroscience Methods*, 240, 101-115.
28. Huang, H., Li, Y. and Guan, Y. (2014). Joint modeling and clustering paired generalized longitudinal trajectories with application to cocaine abuse treatment data, *Journal of the American Statistical Association*, 109, 508, 1412-1424.

29. **Li, Y.**<sup>§</sup> and Guan, Y. (2014). Functional principal component analysis of spatial-temporal point processes, with applications to disease surveillance, *Journal of the American Statistical Association*, 109, 507, 1205-1215.
30. **Li, Y.**<sup>§</sup>, Wang, N. and Carroll, R. J. (2013). Selecting the number of principal components in functional data, *Journal of the American Statistical Association*, 108, 504, 1284-1294.
31. Guan Y., **Li, Y.**<sup>†</sup> and Sinha, R.(2011). Cocaine dependence treatment data: methods for measurement error problems with predictors derived from stationary stochastic processes, *Journal of the American Statistical Association*, 106, 480–493. († The first two authors are joint first authors.)
32. **Li, Y.** (2011). Efficient semiparametric regression in longitudinal data with nonparametric covariance estimation, *Biometrika*, 98, 2, 355-370.
33. Ye, J., Lazar, N. and **Li, Y.** (2011). Sparse geostatistical analysis in clustering fMRI time series, *Journal of Neuroscience Methods*, 199, 336-345.
34. **Li, Y.**, Wang, N. and Carroll, R. J. (2010). Generalized functional linear models with semiparametric single-index interactions, *Journal of the American Statistical Association*, 105, 621-633.
35. **Li, Y.** and Hsing, T. (2010b). Uniform convergence rates for nonparametric regression and principal component analysis in functional/ longitudinal data, *Annals of Statistics*, 38, 3321-3351.
36. **Li, Y.** and Hsing, T.(2010a). Deciding the dimension of effective dimension reduction space for functional and high-dimensional data. *Annals of Statistics*, 38, 3028-3062.
37. Ye, J., Lazar, N. and **Li, Y.** (2009). Geostatistical analysis in clustering fMRI time series, *Statistics in Medicine*, 28, 2490-2508.
38. **Li, Y.** and Genton, M. (2009). Single-index additive vector time series models. *Scandinavian Journal of Statistics*, 36, 369-388.
39. **Li, Y.**, Wang, N, Hong, M, Turner, N., Lupton, J. and Carroll, R. J. (2007). Nonparametric estimation of correlation functions in spatial and longitudinal data, with application to colon carcinogenesis experiments. *Annals of Statistics*, 35, 1608-1643.
40. **Li, Y.**, Guolo, A., Hoffman, F. O. and Carroll, R. J. (2007). Shared uncertainty in measurement error models, with application to Nevada test site fallout data. *Biometrics*, 63, 1226-1236.
41. **Li, Y.** and Hsing, T. (2007). On the rates of convergence in functional linear regression. *Journal of Multivariate Analysis*, 98, 1782-1804.

### **Peer Reviewed Book Chapters:**

42. **Li, Y.**, Xu, I. and Liu, C. (2021). Functional data modeling and hypothesis testing for longitudinal Alzheimer Genome-Wide Association Studies, book chapter in *Modern Statistical Methods for Health Research* (Edited by Yichuan Zhao and Ding Chen), Springer.
43. **Li, Y.** and Wang, N. (2014). Ray Carroll's contributions in non- and semi-parametric regression for dependent data, commentary in *Selected Works of Raymond J. Carroll*, Springer.
44. **Li, Y.** (2014). Semi-parametric regression methods in longitudinal data: applications to AIDS clinical trial data, book chapter in *Biological Knowledge Discovery Handbook: Preprocessing, Mining and Postprocessing of Biological Data* (Edited by Mourad Elloumi and Albert Zomaya), Wiley.

### **Refereed Abstracts:**

45. Hong, M.Y., Baladandayuthapani, V., **Li, Y.**, Carroll, R.J., Turner, N.D. and Lupton, J.R. (2008), Coordinated p27 Kip1 expression as a function of distance between crypts - Potential inter-crypt signaling. *FASEB J*, 22: 865.4-865.4. [https://doi.org/10.1096/fasebj.22.1\\_supplement.865.4](https://doi.org/10.1096/fasebj.22.1_supplement.865.4)
46. Lee, D.-C., Brellenthin, A. G., Lanningham-Foster, L. M., Kohut, M. L. **Li, Y.** (2021), “Cardiovascular Benefits Of Resistance, Aerobic, And Combined Exercise (cardiorace)”, 2021 American College of

## **Nontechnical Articles/ News**

47. Kurum, E., Flores, A. and **Li, Y.** (2022), Recognizing academic departments for JEDI efforts -- University of California at Riverside, AMSTAT News, Dec 2022, page 12-14.
48. Hoddle, M. S., Singh, S., Keogh, E., Cong, L., **Li, Y.**, Yao, W., Gomez-Marco, F., Hoddle, C. D., Irvin, N., Lewis, M., Milosavljevic, I. (2022), Using infra-red sensors and internet of things to automate Argentine ant counts, CAPCA Advisers, Oct 2022, 25, 5, 40-45.

## **Technical Reports**

- Li, E., **Li, Y.**, Wang, N.-Y. and Wang, N. (2008), Functional latent feature models for data with longitudinal covariate processes.
- **Li, Y.** (2007). A note on Hilbertian elliptically contoured distribution. Unpublished manuscript.

## **Teaching**

- STAT 146, Statistical Forecasting Techniques, UCR (Fall, 2019).
- STAT 160A, Elements of Probability and Statistical Theory, UCR (Fall, 2018, 2019, 2020).
- STAT 160B, Elements of Probability and Statistical Theory, UCR (Spring, 2019, 2020, 2021).
- STAT 210A, Advanced Theory of Probability and Statistics, UCR (Fall, 2020, 2021,2022,2023).
- STAT 220A, Multivariate Analysis, UCR (Fall, 2018).
- STAT 220B, Multivariate Analysis, UCR (Spring, 2019).
- STAT 232, Statistics for Business Analytic, UCR (Fall, 2021; Winter 2023,2024)
- STAT 255G, Advanced Linear and Generalized Linear Models, UCR (Spring 2020).
- STAT 255J, Advanced Topics in Longitudinal Data Analysis, UCR (Spring, 2018).
- STAT 255T, Nonparametric Smoothing Methods in Statistics, UCR (Winter, 2018).
- STAT 542, Theory of Probability and Statistics I, ISU (Fall 2015, Fall 2016).
- STAT 547X, Functional Data Analysis, ISU (Spring 2014, Spring 2016).
- STAT 322, Probabilistic Methods for Electrical Engineers, ISU (Fall 2013, Fall 2017).
- STAT 402, Session C, Experimental Design in Social Sciences, ISU (Spring 2013, Spring 2015, Spring 2016).
- STAT 105, Introduction to Statistics for Engineers, ISU (Fall 2012, Spring 2015).
- STAT 8270, Spatial Statistics, UGA.
- STAT 6510, Mathematical Statistics, UGA.
- STAT 6220, Statistical Method II, UGA.
- STAT 6310 Statistics Method I, UGA.
- STAT 6210 Statistics Method I, UGA.
- STAT 4220 Applied Experimental Design, UGA.
- STAT 211, Principle of Statistics, TAMU.
- Multivariate Calculus, University of Rochester.

## **Departmental and Institutional Services**

- MS in Business Analytic Program Steering Committee (2019 --)
- Consulting Collaboratory Director (2019 -- 2022)
- Data Science Committee (2019 --2021)

- CNAS Award Committee, UCR (2019--2021).
- Graduate Admission Committee, (2020-2021).
- Undergraduate Program Committee, (2020-2021).
- Graduate Course Committee (2020-2021).
- Growth Plan Committee (2019-2020), Chair.
- LPSOE Search Committee, 2018.
- Course development for the Master of Science in Business Analytics.
- CNAS Web Advisory Committee, UCR (2018).
- Seminar chair (2016 Spring), ISU.
- Honors and Awards Committee (2016-2018), ISU.
- Graduate Committee (2012-2017), ISU.
- Exam Committee (2012-2013, 2013-2014, 2014-2015), ISU.
- Faculty Search Committee for the Applied Probability position (2014-2015), UGA.

### **Invited Colloquium Talks:**

1. Jiangxi University of Finance and Economics, Nanchang, Jiangxi, China, Jun, 2023 (online).
2. ASA Kansas -Western Missouri Chapter, Apr 13, 2023.
3. Department of Mathematics and Statistics, University of Maryland at Baltimore County, Nov 2022.
4. Department of Biostatistics, University of California at Los Angeles, May 2022.
5. Department of Mathematics, William & Mary College, Apr 2022.
6. Department of Economics, University of California, Riverside, Apr 2022.
7. Department of Statistics, Operation and Data Science, Temple University, Feb 2022.
8. Department of Statistics and Actuarial Science, Waterloo University, Sep 2020. (Delivered online)
9. School of Statistics, Southwestern University of Finance and Economics, China, Jul, 2020. (Delivered online)
10. Department of Statistics, Oregon State University, Apr, 2020. (Delivered online due to COVID19)
11. Department of Mathematics and Statistics, University of Maryland at Baltimore County, Mar 2020. (Canceled due to Covid19)
12. Department of Statistics, School of Management, Fudan University, Dec 2019.
13. Department of Statistics and Applied Probability, University of California at Santa Barbara, Nov 2019.
14. Center for Statistical Science, Tsinghua University, Beijing, China, Jun 2019.
15. Department of Mathematic, Statistics and Computer Science, University of Illinois at Chicago, Apr 2019.
16. Department of Statistics, Texas A&M University, College Station, TX, Apr 2019.
17. Data Science Center, University of California, Riverside, Feb 2019.
18. Department of Statistics, North Carolina State University, Raleigh, NC, Dec 2018.
19. Department of Statistics, University of California, Irvine, Nov 2018.
20. Department of Economics, University of California, Riverside, April, 2018.
21. Department of Mathematics, University of Arizona, Oct 2017.
22. Department of Statistics, University of California at Riverside, May 2017.
23. Department of Statistics, Penn State University, Apr 2017.
24. School of Business, University of California, Riverside, March 8<sup>th</sup>, 2017
25. School of Finance and Statistics, East China Normal University, Jul 2016.
26. Department of Statistics and Actuarial Science, University of Iowa, Nov 2015.
27. Department of Statistics, University of California at Davis, Jan, 2015.
28. Department of Statistics, University of Michigan, Oct 3<sup>rd</sup>, 2014.

29. Kidney Epidemiology and Cost Center, University of Michigan, Oct 1<sup>st</sup>, 2014.
30. Department of Statistics, University of Toronto, Oct 3<sup>rd</sup>, 2013.
31. Department of Mathematics and Statistics, University of Illinois at Chicago, April 3<sup>rd</sup>, 2013.
32. Department of Mathematical Sciences, Tsinghua University, Jun 6<sup>th</sup>, 2012.
33. Center for Statistical Science, Peking University, Jun 5<sup>th</sup>, 2012.
34. School of Education, University of Georgia, March 2<sup>nd</sup>, 2012.
35. Department of Statistics, Iowa State University, Jan 23<sup>rd</sup>, 2012.
36. Emory University, Sep 2011.
37. School of Industrial and Systems Engineering, Georgia Institute of Technology, Sep 2009.
38. College of Computer Science, Jilin University, China, Jun 2009.
39. Computational System Biology Laboratory, University of Georgia, Apr 2009.
40. Clemson University, Nov 2008.
41. University of South Carolina, Oct 2008.
42. Emory University, Sep 2007.
43. University of Pittsburgh, Jan 2006.
44. University of Illinois at Chicago, Jan 2006.
45. Carnegie Mellon University, Feb 2006.
46. Virginia Tech, Feb 2006.
47. University of Georgia, Feb 2006.
48. University of Chicago, Feb 2006.
49. Stanford University, Feb 2006.
50. North Carolina State University, Feb 2006.
51. University of Pennsylvania, Feb 2006.
52. National Institute of Allergy and Infectious Disease, Feb 2006.

### **Invited Conference Talks:**

1. 2023 Joint Statistical Meetings, Toronto, Canada, Aug 2023.
2. 2023 IMS workshop on “Emerging New Topics in Functional Data Analysis”, Singapore, Jul 2023.
3. 2023 ICSA Applied Statistics Symposium, Ann Arbor, MI, Jun 2023.
4. 15<sup>th</sup> International Conference of ERCIM WG on Computational and Methodological Statistics (CMStatistics 2022), King’s College London, UK, Dec 2022.
5. 2022 ICSA Canadian Chapter Meeting, Banff, Canada, Jul 2022.
6. 2022 WNAR Meeting, virtual conference, Jun 2022.
7. 5<sup>th</sup> International Conference on Econometrics and Statistics (EcoSta, 2022), Kyoto, Japan, Jun 2022.
8. 2021 ICSA Applied Statistics Symposium, virtual conference, Sep 2021.
9. 2021 Joint Statistical Meeting, virtual conference, Aug 2021.
10. 4<sup>th</sup> International Conference on Econometrics and Statistics (EcoSta, 2020), Seoul, Korean, Jul 2021. (online)
11. 2021 WNAR/IMS/JR (Japanese Region) meeting, Anchorage, Alaska, Jun 2021 (Online).
12. 2020 ENAR Spring Meetings, Nashville, TN, Mar 2020. (Online talk due to Covid19)
13. 11th ICSA International Conference, Hangzhou, China, Dec 2019.
14. 2019 Novartis China Analytics Conference, Shanghai, China, Dec 2019.
15. 2019 ICSA- China conference, Tianjin, China, July, 2019.
16. 3<sup>rd</sup> International Conference on Econometrics and Statistics (EcoSta, 2019), Taichung, Taiwan, Jun, 2019.
17. 7<sup>th</sup> Workshop on Biostatistics and Bioinformatic, Atlanta, May 2019.

18. 11<sup>th</sup> International Conference of the ERCIM WG on Computational and Methodological Statistics, Pisa, Italy, Dec 2018.
19. The 5<sup>th</sup> IBS-China International Biostatistics Symposium, Guangzhou, China, July, 2018.
20. The 5<sup>th</sup> IMS Asia Pacific Rim Meeting, Singapore, Jun 2018.
21. 2<sup>nd</sup> International Conference on Econometrics and Statistics (EcoSta, 2018), Hong Kong, China, Jun, 2018.
22. 2018 ICSA Applied Statistics Symposium, New Brunswick, NJ, Jun 2018.
23. 2017 ICSA International Conference on Data Science with the focus on Lifetime Data, Jilin, China, July 2<sup>nd</sup>, 2017.
24. IMS-China International Conference on Statistics and Probability 2017, Nanning, China, Jun 28, 2017.
25. 1<sup>st</sup> International Conference on Econometrics and Statistics (EcoStat 2017), Hongkong, June 15th, 2017.
26. 2017 Conference on Lifetime Data Science, *Data Science, Precision Medicine and Risk Analysis with Lifetime Data*, May 2017, University of Connecticut, Storrs, CT.
27. 2016 University of South Carolina Latent Variable Conference, Columbia, SC, October 2016.
28. 2016 University of Michigan Nonparametric Statistics Workshop, Ann Arbor, October 2016.
29. 4<sup>th</sup> Joint Biostatistics Symposium, Shanghai, July, 2016.
30. 2016 IMS Asia Pacific Rim Meeting, Hongkong, Jun, 2016.
31. 2016 ICSA Applied Statistics Symposium, Atlanta, Jun 2016.
32. 2015 Joint Statistical Meetings, Seattle, WA, August, 2015 (Topic contributed).
33. Joint 24th ICSA Applied Statistics Symposium and 13<sup>th</sup> Graybill Conference, Fort Collins, CO.
34. 2014 Joint Statistical Meetings, Boston, MA, August, 2014.
35. The 3<sup>rd</sup> IMS Asia Pacific Rim Meeting, June, 2014.
36. 2014 ENAR spring meeting, Baltimore, MD, March, 2014.
37. 2012 Joint Statistical Meetings, San Diego, CA, Aug, 2012.
38. International Chinese Statistical Association (ICSA) 2012 Applied Statistics Symposium, Boston, MA, July 2012.
39. International Chinese Statistical Association (ICSA) 2011 Applied Statistics Symposium, New York City, June 2011.
40. Southern Regional Consul of Statistics (SRCOS) 2011 Summer Research Conference, McCormick, SC, June, 2011.
41. 2011 ENAR spring meetings, Miami, FL, March 2011.
42. IMS Symposium on New Directions in Asymptotic Theory, UGA, May 2009.
43. Southern Regional Consul of Statistics (SRCOS) 2008 Summer Research Conference, Charleston, SC.
44. International Chinese Statistical Association (ICSA) 2008 Applied Statistics Symposium, Piscataway, NJ.

### **Contributed Conference Talks:**

1. 2012 ENAR spring meeting, Washington, D.C., Apr 2012. (Topic contributed)
2. 2010 ENAR spring meeting, New Orleans, LA, Mar 2010.
3. 2009 Joint Statistical Meetings, Washington, DC, Aug 2009.
4. 2008 Joint Statistical Meetings, Denver, CO. (Topic contributed)
5. 2008 ENAR spring meetings, Crystal City, Virginia.
6. 2007 Joint Statistical Meetings, Salt Lake City, UT.
7. The Tenth Meeting of New Researcher in Statistics and Probability, Salt Lake City, UT (2007).
8. 2006 ENAR spring meetings, Tampa, FL.

9. 2005 Focused Research Group Conference on Nonparametric Models for Complex Biological Data, University of California, Davis.
10. 2005 Joint Statistical Meetings, Minneapolis, MN.
11. 2004 Joint Statistical Meetings, Toronto, Canada.

### **Conference Posters:**

- 2021 Joint Statistical Meetings, invited e-poster, Aug 2021.
- Workshop on Future Directions in High-Dimensional Data Analysis, Isaac Newton Institute of Mathematical Sciences, University of Cambridge, UK. (June 2008)

### **Other Invited Webinar & Public Speech:**

- Texas A&M University Statistics Former Student Network, Oct 2023.
- NISS Grant Writing Webinar, Oct 2019.

### **Professional Activities**

- Referee for
  - *American Statistician* (1 paper),
  - *Annals of Applied Statistics* (4 paper),
  - *Annals of Statistics* (18 papers),
  - *Annals of the Institute of Statistical Mathematics* (1 paper),
  - *Bernoulli* (2 paper),
  - *Biometrics*(4 paper),
  - *Biometrika* (4 papers),
  - *Biostatistics* (1 paper),
  - *Canadian Journal of Statistics* (3 papers),
  - *Communications in Statistics* (1 paper),
  - *Electronic Journal of Statistics* (1 paper),
  - *Journal of Agricultural, Biological and Environmental Statistics* (1 paper),
  - *Journal of Business & Economics Statistics* (3 paper),
  - *Journal of the American Statistical Association* (24 papers),
  - *Journal of Multivariate Analysis* (2 paper),
  - *Journal of Machine Learning Research* (1 paper),
  - *Journal of Nonparametric Statistics* (1 paper),
  - *Journal of the Royal Statistical Society, Series B* (9 papers),
  - *Journal of Statistical Planning and Inference* (3 paper),
  - *Scandinavian Journal of Statistics* (3 paper),
  - *Statistics and Its Interface* (1 paper),
  - *Statistics and Probability Letters* (1 paper),
  - *Statistics in Medicine* (2 papers),
  - *Statistical Science* (1 paper),
  - *Statistica Sinica* (12 papers),
  - *Technometrics* (1 paper),
  - *Test* (1 paper).

Total number of reviewed paper to date is 106.

- Proposal review
  - *Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grants, 2017 and 2018.*
  - *NIH/NIAID Review Panel, 2015.*
  - *NSF Statistics Review Panel, 2013.*
  - *Mail review for NSF, 2011.*
  - *Jeffress Research Grant, Thomas F. and Kate Miller Jeffress Memorial Trust, 2010.*
  - *Pilot Funding for New Research Program, Board of Regents, State of Louisiana, 2008.*
- Other professional services:
  - Hartley Award Committee, 2020.
  - Hartley Award Committee, 2023.
- Conference organizing
  - Organizer IMS-Singapore 2022 Workshop on “Emerging New Topics in Functional Data Analysis”.
  - Organizing committee for the conference “Personal and Scientific Impact of a Statistician: Conference in Honor of Raymond Carroll’s 70th Birthday”, Oct 2020.
  - Organizer for invited session on “New Frontiers of Functional and High-Dimensional Data Analysis”, 5<sup>th</sup> IMS-APRM, Singapore, July 2018.
  - Organizer for topic contributed session “New Frontiers of Functional Data Analysis”, JSM, Vancouver, July 2018.
  - Program Committee, 2017 ICSA Applied Statistics Symposium.
  - Organizer of the invited sessions “New Frontiers in Functional Data Analysis” and “New Methodology for Spatial and Spatio-Temporal Data Analysis”, 2015 ICSA Applied Statistics Symposium, Collins Fort, Colorado.
  - Organizer of the IMS invited session on “New Developments In Functional Data Analysis”, ENAR Spring Meeting, 2013.
  - ASA Nonparametric Student Paper Competition Committee, JSM 2012.
  - Organizer of the topic contributed session on *New Method and Theory in Functional/Longitudinal Data Analysis*, ENAR Spring Meetings, Washington, D.C., 2012.
  - ASA Nonparametric Student Paper Competition Committee, JSM 2011.
  - Organizer of the invited session on “New Developments in Functional Data Analysis”, 2010 ICSA Applied Statistics Symposium, Indianapolis, IN, Jul, 2010.
  - Local organizing committee member for the IMS Symposium on New Directions in Asymptotic Theory, UGA, May 2009.

## **Graduate Committee Served**

- **University of California, Riverside**
  - **Ph.D. students supervised:**
    - Shen Xin (joint with Zhe Fei, expected 2025).
    - Nir Voloshin (expected 2024).
    - Yun Mo (expected 2024).
    - Ruihan Lv (2023, FDA).
    - Michael Brannan (2021, United Health Care).
  - **Ph.D. dissertation committee**
    - Suyeon Kang (2022)
    - Ying Liu (2022)
    - Po-yao Niu (2022)

- Lin Cong (2022)
    - Chengkun Hong (CS, 2022)
    - Tianyu Guan (2020, Simon Fraser University, Canada)
  - **Ph.D. oral exam committee**
    - Dannish Padha (2023), Economics, UCR.
    - Noe Vidales (2022)
    - Ke Huang (2021)
    - Sichen Chen (2021)
    - Lin Cong (2021)
    - Dylan Friel (2021)
    - Chengkuan Hong (2021), Computer Science, UCR.
    - Dawei Jian (2020), Operations Management, UCR.
    - Po-yao Niu (2020)
    - Suyeon Kang (2020)
    - Samantha VanSchalkwyk (2018)
    -
- **Iowa State University**
  - **Ph.D. students supervised:**
    - Yuhang Xu (May 2016, Assistant Professor, University of Nebraska, Lincoln).
    - Lanfeng Pan (Dec 2017, Eli Lilly).
    - Weicheng Zhu (Aug 2018, Amazon).
    - Haozhe Zhang (Joint with Dan Nettleton, May 2019, Microsoft).
    - Rodrigo Plazolo-Ortiz (Joint with Lily Wang, Dec 2019, Boehringer Ingelheim).
    - Xinyue Chang (Joint with Zhengyuan Zhu, Xiongtao Dai, Dec 2020, Eli Lilly and Company).
    - Xingche Guo (Joint with Dan Nettleton, Somak Dutta, Jul 2021, Postdoc at Columbia).
  - **Ph.D. committee**
    - Yumou Qiu (Statistics, 2014), Jongho Im (Statistics, 2015), Bo Wang (Civil, Construction and Environmental Engineering, 2015), Junsig Wang (Kinesiology, 2016), Guillermo Basulto Elias (Statistics, 2016), Yong Mei (Statistics & Chemical Engineering, 2017), Fan Cao (Statistics, 2016), Peng, Liuhua (Statistics, 2017), Xinyi Li (Statistics, 2018).
  - **MS thesis committee**
    - Jie Chen (Social Science, 2015), Rosy Oh (Statistics, 2016).
- **University of Georgia**
  - **Ph.D. students supervised:**
    - Jin Tang (graduated Fall 2014, Data Scientist, Microsoft, Seattle, WA).
    - Wenting Fan (suspended for medical reasons).
  - **Ph.D. dissertation committee member:**
    - Yunzhou Wu (Computer Science, 2007), Jien Chen (2008), Jun Ye (2008), Junshan Qiu (2008), Shanbin Liu (2008), Qin Wang (2009).
  - **MS thesis committee:** Muliang Peng (2011), Jong Min Ra (2011).
- **Visiting PhD student supervised**
  - Shuang Sun, Tsinghua University, 2023.

- Kun Huang, Tsinghua University, 2022.
- Yanghui Liu, East China Normal University.
- Hanbing Zhu, East China Normal University.
- Jiasheng Huang, Peking University.