

Lijian YANG

Contact Center for Statistical Science and Department of Industrial Engineering
Tsinghua University Beijing 100084, China
Phone: +86-10-62780097 E-mail: yanglijian@mail.tsinghua.edu.cn

Education

University of North Carolina, Chapel Hill	Statistics	M.S., 1993, Ph.D., 1995
Peking University, China	Mathematics	B.S., 1987

Research Interests

Inference for time series data, high dimensional data, functional data, and sample survey data; nonparametric simultaneous confidence region; applications of statistics in economics, neuroscience/brain science, food science, agronomy, genetics, management and environmental science (Erdős Number 3: Yao \rightarrow Chen \rightarrow Erdős)

Professional Appointments

April 2016-	Professor, Center for Statistical Science, Tsinghua University
Nov. 2018- Nov. 2021	Adjunct Professor, Xi'an Jiaotong University Global Health Institute
May 2010-April 2016	Specially-Appointed Professor and Director, Soochow University Center for Advanced Statistics and Econometrics Research
97-01/01-06/Jul. 06-Jan. 2014	Assistant/Associate/Full Professor of Statistics & Probability, MSU
2007-10	Graduate Director of Statistics & Probability, MSU
Jul. 2006-Jan 2018	Adjunct Professor, Center for Global Change & Earth Observations, MSU
Jun. 2010	Visiting Professor, Risk Management Institute (RMI), NUS
Jan.-Jul. 2005	Visiting Associate Professor, National University of Singapore (NUS)
Sept.-Dec. 2004	Visiting Professor, School of Management, Peking University
Jun. 2003-Jul. 04	ASA/NSF/BLS Research Fellow, Bureau of Labor Statistics
2001-02	Judith C. & William G. Bollinger Visiting Professor, the Wharton School, University of Pennsylvania
Oct. 1995-Jul. 97	Research Associate, Humboldt University

Honors

- **Distinguished Fellow**, International Engineering and Technology Institute, 2020.
- **Elected Fellow**, Institute of Mathematical Statistics, 2017.
- **Elected Fellow**, American Statistical Association, 2011.
- **Elected Member**, International Statistical Institute, 2006.
- **The Tjalling C. Koopmans Econometric Theory Prize**, 2000-2002 (with S. Sperlich and D. Tjøstheim) "Nonparametric estimation and testing of interaction in additive models"\$1,000.
- **Recruitment Program of Global Experts (Thousand Talent)**, China, 2012.
- **Marquis' Who's Who**, 2007.
- **Merit Assistantship**, University of North Carolina at Chapel Hill, North Carolina, 1990.
- **IE Excellence Award**, Department of Industrial Engineering, Tsinghua University, 2021.

- **Research Excellence Award**, Department of Industrial Engineering, Tsinghua University, 2018, 2019, 2021.
- **Talent Recruitment and Development Award**, Department of Industrial Engineering, Tsinghua University, 2018, 2020.
- **Jiangsu Leading Creative and Entrepreneurial Talents**, Jiangsu, China, 2011.
- **Jiangsu 333 Leading Talents Cultivation Project**, Jiangsu, China, 2013.

Funded Research Projects

- P. I., **National Natural Science Foundation** NSFC12171269, China, 2022-26, “Statistical analysis of dependent functional data: theory and methods” 510,000 CNY.
- P. I., **Denovo Biopharma**, 2021-22, “Studies on the relationship between Schizophrenia symptoms and electroencephalogram” 500,000 CNY.
- P. I., **National Natural Science Foundation** NSFC12026242, China, 2021-22, “Statistical analysis of functional data based on expo rational B-splines” 200,000 CNY.
- P. I., **National Natural Science Foundation** NSFC11771240, China, 2018-22, “Statistical analysis of complex time series and functional data” 480,000 CNY.
- P. I., **National Natural Science Foundation** NSFC11371272, China, 2014-18, “Statistical inference for functional data” 500,000 CNY.
- P. I., **Ministry of Education** 20133201110002, China, 2014-16, “Statistical inference for functional data” 120,000 CNY.
- P. I., **Jiangsu Key-Discipline Program (Statistics)** ZY107002, China, 2012-16, 6 million CNY.
- P. I., **Jiangsu Specially-Appointed Professor Program** SR10700111, China, 2011-14, 1 million CNY.
- P. I., **NUS RMI Credit Rating Grant** 2010 “Credit rating via generalized additive modelling” \$30,000.
- Sole P. I., **U.S. National Science Foundation** standard DMS awards:
 1. 1007594, 2010-13 “Simultaneous confidence regions for functional data analysis: theory and methods” \$159,986
 2. 0706518, 2007-10 “Reduction of infinite data dimension via B spline smoothing” \$221,525
 3. 0405330, 2004-07 “Monte-Carlo multi-step ahead forecasting for nonlinear time series” \$192,053
 4. 9971186, 1999-2002 “Non- and semi- parametric identification and prediction of autoregressive models, with applications to econometrics” \$77,508
- Sole P. I., **ASA/NSF/BLS Research Fellowship**, 2003-04: “Non- and semi- parametric analysis of multivariate seasonal time series data” \$59,009, from NSF award SES 0127722.

Professional Activities

Editorial Board Member	Brain Sciences, December, 2021-
Associate Editor	Statistica Sinica, September, 2020-
Editorial Board Member	Series in Statistics & Data Science, Science Press, September 15, 2018-
Associate Editor	Stat Feb 2015-
Associate Editor	Journal of Business & Economic Statistics July, 2012-July, 2016
Associate Editor	Journal of Nonparametric Statistics Oct, 2007-July, 2017
Editor	Sankhyā Series B January 1, 2012-Jan 1, 2016
Associate Editor	Journal of Data Science 2007-2012
Associate Editor	Statistica Sinica, 2006-2011
Associate Editor	Computational Statistics, 2000-2006
Member	IMS-China Committee, July 2023-
Board Member	Asia-Pacific Seminar in Probability and Statistics (APSPS), April 2021-
President/Advisory Board Member	Suzhou Association for Applied Statistics, May 2013-May 2018/May 2018-
Executive Council Member	Chinese Association for Applied Statistics, Section on Survival Analysis, April 2018-
Executive Council Member	Chinese Association for Applied Statistics, Section on High Dimensional Data Statistics, April 2015-
Council Member	Chinese Society of Probability and Statistics, October 2014-October 2018
Council Member	Chinese Association for Applied Statistics, July 2013-November 2017
Council Member	Jiangsu Association for Applied Statistics, July 2013-November 2017
Member, Degree Program Committee	Tsinghua University Mathematical Sciences, October 2019-
Member, Academic Committee	Tsinghua University School of Science, December 2018-
Member, Program Committee	The First Symposium of Geometry and Statistics, Beijing, July 2023
Member, Program Committee	Joint Conference on Statistics and Data Science in China, Beijing, July 2023
Instructor, Nonparametric Statistics	RUC International Summer School (English), Beijing, China, July 3-21, 2023
Forty-five Minutes Lecturer	International Congress of Chinese Mathematicians, Beijing, China, July, 2022
Keynote Speaker	System Science Forum, Chinese Academy of Sciences, China, November, 2021
Keynote Speaker	Gregory Chow Seminar, Xiamen University, Xiamen, China, November, 2020
Keynote Speaker	2019 Forum on the Theory and Frontiers of Quantitative Economics Huazhong University of Science & Technology, Wuhan, China, May, 2019
Keynote Speaker	The 13th Meeting of Chinese Association for Applied Statistics Section on Survival Analysis, Linfen, China, May, 2019
Keynote Speaker	Workshop on Experimental Design & Statistical Science, Chinese Association for Applied Statistics Section on Experimental Design, Beijing, October, 2018
Keynote Speaker	Chinese Center for Disease Control and Prevention, Beijing, June, 2018
Keynote Speaker	The Third Peking-Tsinghua Joint Statistics Colloquium, Beijing, June, 2018
Keynote Speaker	Symposium on Modern Statistics at Xiamen University, Xiamen, December 2017
Keynote Speaker	Annual Conference of Chinese Association of Quantitative Economics Jiangxi University of Finance & Economics, Nanchang, October 2017
Keynote Speaker	Lilac International Conference of Application on Statistics, Harbin, June 2017
Keynote Speaker	Jiangsu Applied Statistics Annual Meeting, Yixing, September 2016
Keynote Speaker	The 1st Meeting of Chinese Association for Applied Statistics Section on High Dimensional Data Statistics, Wuhu, China, April, 2015
Keynote Speaker	The 10th Meeting of the Jiangsu Society of Probability and Statistics, Suzhou, China, October, 2011
Co-Organizer	Lilac International Conference of Application on Statistics, Harbin, June 2019
Member, Organizing Committee	ICSA Applied Statistics Symposium, Atlanta, June 2016

Invited Session Speaker/Organizer	IMS-China, Chengdu, July 2013, Kunming, July 2015, China Nanning, July 2017, Dalian, July 2019, China
Invited Session Speaker	ICSA-China Conference, July, Jilin, 2017, Qingdao, 2018, Tianjin, 2019
Invited Session Speaker	Joint Statistical Meeting, San Diego, 2012, Montréal, 2013, Boston, 2014
Invited Session Speaker	IMS-APRM (Seoul, Tokyo, Taipei, HK), July, 2010, 2011, 2014, 2016
Invited Session Speaker	FERM (Beijing, Guangzhou), June, 2014, 2016
Invited Session Speaker	Taihu International Statistics Forum (Wuxi, Shanghai), July, 2011, 2016
Invited Session Speaker	ICSA/KISS Applied Statistics Symposium, Portland, June 2014
Invited Session Speaker	ICSA International Conference, Hong Kong, December, 2013
Invited Session Speaker	HKUST International Forum on Probability & Statistics, December, 2013
Invited Session Speaker	Oberwolfach, January, 2010, September, 2013
Invited Session Speaker	ISI 59th World Statistics Congress, Hong Kong, August, 2013
Co-Organizer	The 2nd Taihu International Statistics Forum, Suzhou, China, July, 2013
Invited Session Speaker	Financial Time Series Analysis: High-dimensionality, Non-stationarity and the Financial Crisis, National University of Singapore, June, 2012
Invited Session Organizer	Joint Statistical Meeting, August, 2005, 2008, 2009, 2011
Invited Session Speaker	Workshop on Graphical Models and Related Topics Northeast Normal University, Changchun, China, July, 2011
Invited Session Organizer	ICSA Applied Statistics Symposium, June, 2005-2007, 2009-2011
Invited Session Speaker	Spring Meeting of ENAR, March, 2008, 2011
Collaborative Research Visit	Department of Statistics, University of Georgia, April 1-15, 2010
Shoemaker Lecturer	Department of Mathematics, University of Toledo, March 17-19, 2010
Proposal Reviewer	National Security Agency, 2009 & 2010
Invited Session Speaker	"New Directions in Asymptotic Statistics", UGA, 2009
Reviewer	Mathematical Review, 2008-
Statistics Program Quality Survey	National Research Council, May, 2007
Scholarship & Awards Committee	College of Natural Science, MSU, 2007-2010
Proposal Reviewer & Panelist	National Science Foundation, 2006
Invited Session Speaker	International Conference on Statistics in Honor of Professor Kai-Tai Fang's 65th Birthday, Hong Kong, June, 2005
Invited Session Organizer	ICSA International Conference, Singapore, July, 2004
Invited Session Speaker	International Symposium on Forecasting, Sydney, July, 2004
Invited Session Organizer	ISI 54th Session, Berlin, 2003

Membership in Professional Societies

Distinguished Fellow, International Engineering and Technology Institute
 Elected Fellow and Life Member, American Statistical Association
 Elected Fellow and Life Member, Institute of Mathematical Statistics
 Elected Member, International Statistical Institute
 Life Member, International Chinese Statistical Association
 Member, American Association for the Advancement of Science
 Member, Association of Thousand Talent Experts

Peer-Reviewed Journal Publications (downloads at <http://lijianyang.com/papersall.html>)

1. Sun, S. and Yang, L. (2023+) Statistical inference for multivariate functional panel data. *Statistica Sinica* in press DOI: 10.5705/ss.202023.0146.
2. Song, Z., Yang, L. and Zhang, Y. (2023+) Hypotheses testing of functional principal components. *Sta-*

tistica Sinica in press DOI: 10.5705/ss.202022.0309. **The 8th China Graduate Forum on Statistics Best Ten Papers Award**, 2022.

3. Zhong, C. and Yang, L. (2023) Statistical inference for functional time series: autocovariance function. *Statistica Sinica* 33 (4) 2519-2543. **IMS Hannan Graduate Student Travel Award** at JSM 2021.
4. Li, J. and Yang, L. (2023) Statistical inference for functional time series. *Statistica Sinica* 33 (1), 519-549. **IMS Hannan Graduate Student Travel Award** at JSM 2020.
5. Huang, K., Zheng, S. and Yang, L. (2022) Inference for dependent error functional data with application to event-related potentials. *TEST* 31 (4), 1100-1120. **Peking-Tsinghua Joint Statistics Colloquium Excellent Poster Award** 2021.
6. Jia, P., Wang, Y., Yang, M., Wang, L., Yang, X., Shi, X., Yang, L. et al (2022) Inequalities of spatial primary healthcare accessibility in China. *Social Science & Medicine* 314, 115458.
7. Li, J., Wang, J. and Yang, L. (2022) Kolmogorov-Smirnov simultaneous confidence bands for time series distribution function. *Computational Statistics* 37 (3), 1015-1039. **Peking-Tsinghua Joint Statistics Colloquium Excellent Poster Award** 2019.
8. Song, Z. and Yang, L. (2022) Statistical inference for ARMA time series with moving average trend. *Journal of Nonparametric Statistics* 34 (2), 357-376.
9. Jiang, J., Cai, L. and Yang, L. (2022) Simultaneous confidence band for the difference of regression functions of two samples. *Communications in Statistics-Theory & Methods* 51 (11), 3556-3572.
10. Fang, Y., Xue, L., Martins-Filho, C. and Yang, L. (2022) Robust estimation of additive boundaries with quantile regression and shape constraints. *Journal of Business & Economic Statistics* 40 (2), 615-628.
11. Wang, J., Gu, L. and Yang, L. (2022) Oracle-efficient estimation for functional data error distribution with simultaneous confidence band. *Computational Statistics & Data Analysis* 167, 107363.
12. Huang K., Chen, D., Wang, F. and Yang, L. (2021) Prediction of dispositional dialectical thinking from resting-state electroencephalography. *Brain and Behavior* 11 (9), e2327.
13. Yu, S., Wang, G., Wang, L. and Yang, L. (2021) Multivariate spline estimation and inference for image-on-scalar regression. *Statistica Sinica* 31 (3), 1463-1487.
14. Zhong, C. and Yang, L. (2021) Simultaneous confidence bands for comparing variance functions of two samples based on deterministic designs. *Computational Statistics* 36 (2), 1197-1218.
15. Gu, L., Wang, S. and Yang, L. (2021) Smooth simultaneous confidence band for the error distribution function in nonparametric regression. *Computational Statistics & Data Analysis* 155, 107106.
16. Li, S., Chen, R., Yang, L., Huang, D. and Huang, S. (2020) Predictive modeling of consumer color preference: using retail data and merchandise images. *Journal of Forecasting* 39 (8), 1305-1323.
17. Zhang, Y., Liu, R., Shao, Q. and Yang, L. (2020) Two-step estimation for time varying ARCH models. *Journal of Time Series Analysis* 41 (4), 551-570. **Junior Researcher Award** at the 2019 ICSA China Conference.
18. Yu, S., Wang, L., Wang, G., Liu, C. and Yang, L. (2020) Estimation and inference for generalized geoaddditive models. *Journal of the American Statistical Association* 115 (530), 761-774.
19. Wang, L., Xue, L. and Yang, L. (2020) Estimation of additive frontier functions with shape constraints. *Journal of Nonparametric Statistics* 32 (2), 262-293.
20. Zhang, Y., Wang, C., Wu, F., Huang, K. Yang, L. and Ji, L. (2020) Prediction of working memory ability based on EEG by functional data analysis. *Journal of Neuroscience Methods* 333, 108552.

21. 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, 104584. **IMS New Researcher Travel Award 2020.**
22. Cai, L., Li, L., Huang, S., Ma, L. and Yang, L. (2020) Oracally efficient estimation for dense functional data with holiday effects. *TEST* 29 (1), 282-306.
23. Jia, P., Yu C., Remais, J., Stein, A., Liu, Y., Brownson, R. C., Lakerveld, J., Wu, T., Yang, L., Smith, M., Amer, S., Pearce, J. et al (2020) Spatial lifecourse epidemiology reporting standards (ISLE-ReSt) statement. *Health & Place* 61, 102243.
24. Jia, P, Xue, H, Liu, S, Wang, H., Yang, L., Hesketh, T., Ma L., Cai H., Liu X., Wang, Y., Wang, Y. (2019) Opportunities and challenges of using big data for global health. *Science Bulletin* 64 (22), 1652-1654.
25. Gu, L., Wang, S. and Yang, L. (2019) Simultaneous confidence bands for the distribution function of a finite population in stratified sampling. *Annals of the Institute of Statistical Mathematics* 71 (4), 983-1005.
26. Cai, L., Liu, R., Wang, S. and Yang, L. (2019) Simultaneous confidence bands for mean and variance functions based on deterministic design. *Statistica Sinica* 29 (1), 505-525.
27. Kong, J., Gu, L. and Yang, L. (2018) Prediction interval for autoregressive time series via oracally efficient estimation of multi-step ahead innovation distribution function. *Journal of Time Series Analysis* 39 (5), 690-708.
28. Zhang, Y. and Yang, L. (2018) A smooth simultaneous confidence band for correlation curve. *TEST* 27 (2), 247-269. **Peking-Tsinghua Joint Statistics Colloquium Excellent Poster Award 2018.**
29. Shao, Q. and Yang, L. (2017) Oracally efficient estimation and consistent model selection for autoregressive moving average time series with trend. *Journal of the Royal Statistical Society Series B* 79 (2), 507-524.
30. Wang, J., Wang, S., and Yang, L. (2016) Simultaneous confidence bands for the distribution function of a finite population and its superpopulation. *TEST* 25 (4), 692-709.
31. Zheng, S., Liu, R., Yang, L. and Härdle, W. (2016) Statistical inference for generalized additive models: simultaneous confidence corridors and variable selection. *TEST* 25 (4), 607-626.
32. Liu, R. and Yang, L. (2016) Spline estimation of a semiparametric GARCH model. *Econometric Theory* 32 (4), 1023-1054.
33. Yang, M., Xue, L. and Yang, L. (2016) Variable selection for additive model via cumulative ratios of empirical strengths total. *Journal of Nonparametric Statistics* 28 (3), 595-616.
34. Cao, G., Wang, L., Li, Y. and Yang, L. (2016) Oracle-efficient confidence envelopes for covariance functions in dense functional data. *Statistica Sinica* 26 (1), 359-383. **Laha Award** at JSM 2011.
35. Ma, S., Racine, J. and Yang, L. (2015) Spline regression in the presence of categorical predictors. *Journal of Applied Econometrics* 30 (5), 705-717.
36. Cai, L. and Yang, L. (2015) A smooth simultaneous confidence band for conditional variance function. *TEST* 24 (3), 632-655.
37. Gu, L. and Yang, L. (2015) Oracally efficient estimation for single-index link function with simultaneous confidence band. *Electronic Journal of Statistics* 9 (1), 1540-1561. **IMS Travel Award** at JSM 2015.

38. Song, Q., Liu, R., Shao, Q., and Yang, L. (2014) A simultaneous confidence band for dense longitudinal regression. *Communications in Statistics–Theory and Methods* 43 (24), 5195-5210.
39. Gu, L., Wang, L., Härdle, K. and Yang, L. (2014) A simultaneous confidence corridor for varying coefficient regression with sparse functional data. *TEST* 23 (4), 806-843.
40. Zheng, S., Yang, L. and Härdle, W. (2014) A smooth simultaneous confidence corridor for the mean of sparse functional data. *Journal of the American Statistical Association* 109 (506), 661-673.
41. Wang, J., Liu, R., Cheng, F. and Yang, L. (2014) Oracally efficient estimation of autoregressive error distribution with simultaneous confidence band. *Annals of Statistics* 42 (2), 654-668.
42. Cheng, F., Yan, J., and Yang, L. (2014) Extended Glivenko-Cantelli theorem in nonparametric regression. *Communications in Statistics–Theory and Methods* 43 (17), 3720-3725.
43. Ma, S. and Yang, L. (2014) Oracally efficient two-step estimation for additive regression. *Handbook of Applied Nonparametric and Semiparametric Econometrics and Statistics* Chapter 6, 149-175.
44. Liu, R., Yang, L. and Härdle, W. (2013) Oracally efficient two-step estimation of generalized additive model. *Journal of the American Statistical Association* 108 (502), 619-631.
45. Cao, G., Todem, D., Yang, L. and Fine, J. (2013) Evaluating statistical hypotheses for non-identifiable models using estimating functions. *Scandinavian Journal of Statistics* 40 (2), 256-273.
46. Wang, J., Cheng, F. and Yang, L. (2013) Smooth simultaneous confidence bands for cumulative distribution functions. *Journal of Nonparametric Statistics* 25 (2), 395-407.
47. Qiu, D., Shao, Q. and Yang, L. (2013) Efficient inference for autoregressive in the presence of trend. *Journal of Multivariate Analysis* 114 (1), 40-53.
48. Shao, Q. and Yang, L. (2012) Polynomial spline confidence band for time series trend. *Journal of Statistical Planning and Inference* 142 (7), 1678-1689.
49. Cao, G., Yang, L. and Todem, D. (2012) Simultaneous inference for the mean function based on dense functional data. *Journal of Nonparametric Statistics* 24 (2), 359-377.
50. Wang, L., Feng, C., Song, Q. and Yang, L. (2012) Efficient semiparametric GARCH modelling of financial volatility. *Statistica Sinica* 22 (1), 249-270.
51. Ma, S., Yang, L. and Carroll, R. (2012) A simultaneous confidence band for sparse longitudinal regression. *Statistica Sinica* 22 (1), 95-122.
52. Shao, Q. and Yang, L. (2011) Autoregressive coefficient estimation in nonparametric analysis. *Journal of Time Series Analysis* 32 (6), 587-597.
53. Mishra, D. K., Dolan, K. D. and Yang, L. (2011) Bootstrap confidence intervals for the kinetic parameters for degradation of anthocyanins in grape pomace. *Journal of Food Process Engineering* 34 (4), 1220-1233.
54. Ma, S., Yang, L., Romero, R. and Cui, Y. (2011) Varying coefficient model for gene-environment interaction: a non-linear look. *Bioinformatics* 27 (15), 2119-2126.
55. Ma, S. and Yang, L. (2011) A jump-detecting procedure based on spline estimation. *Journal of Nonparametric Statistics* 23 (1), 67-81.
56. Ma, S. and Yang, L. (2011) Spline-backfitted kernel smoothing of partially linear additive model. *Journal of Statistical Planning and Inference* 141 (1), 204-219. **Laha Award** at JSM 2009.
57. Wang, L. and Yang, L. (2010) Simultaneous confidence bands for time series prediction function. *Journal of Nonparametric Statistics* 22 (8), 999-1018.

58. Song, Q. and Yang, L. (2010) Oracally efficient spline smoothing of nonlinear additive autoregression model with simultaneous confidence band. *Journal of Multivariate Analysis* 101 (9), 2008-2025. **Laha Award** at JSM 2009.
59. Liu, R. and Yang, L. (2010) Spline-backfitted kernel smoothing of additive coefficient model. *Econometric Theory* 26 (1), 29-59.
60. Wang, J. and Yang, L. (2009) Efficient and fast spline-backfitted kernel smoothing of additive regression model. *Annals of the Institute of Statistical Mathematics* 61 (3), 663-690.
61. Song, Q. and Yang, L. (2009) Spline confidence bands for variance function. *Journal of Nonparametric Statistics* 21 (5), 589-609.
62. Wang, L. and Yang, L. (2009) Spline estimation of single index model. *Statistica Sinica* 19 (2), 765-783 + 15 pages of supplement. **Laha Award** at IMS Annual Meeting 2006.
63. Wang, J. and Yang, L. (2009) Polynomial spline confidence bands for regression curves. *Statistica Sinica* 19 (1), 325-342 + 11 pages of supplement. **Laha Award** at JSM 2005.
64. Liu, R. and Yang, L. (2008) Kernel estimation of multivariate cumulative distribution function. *Journal of Nonparametric Statistics* 20 (8), 661-677. **Laha Award** at JSM 2007.
65. Huang, X., Wang, L., Yang, L. and Kravchenko, A. N. (2008) Management practice effects on relationships of grain yields with topography and precipitation. *Agronomy Journal* 100 (5), 1463-1471.
66. Yang, L. (2008) Confidence band for additive regression model. *Journal of Data Science* 6 (2), 207-217.
67. Mishra D. K., Dolan, K. D. and Yang, L. (2008) Confidence intervals for modeling anthocyanin retention in grape pomace during non-isothermal heating. *Journal of Food Science* 73 (1), E9-E15.
68. Wang, L. and Yang, L. (2007) Spline-backfitted kernel smoothing of nonlinear additive autoregression model. *Annals of Statistics* 35 (6), 2474-2503.
69. Yang, L. (2007) Nonparametric modelling of quarterly unemployment rates. *Journal of Data Science* 5 (1), 85-101.
70. Dolan, K. D., Yang, L. and Trampel, C. P. (2007) Nonlinear regression technique to estimate kinetic parameters and confidence intervals in unsteady-state conduction-heated foods. *Journal of Food Engineering* 80 (2), 581-593.
71. Xue, L. and Yang, L. (2006) Additive coefficient modelling via polynomial spline. *Statistica Sinica* 16 (4), 1423-1446. **Laha Award** at JSM 2005.
72. Yang, L., Park, B. U., Xue, L. and Härdle, W. (2006) Estimation and testing of varying coefficients in additive models with marginal integration. *Journal of the American Statistical Association* 101 (475), 1212-1227.
73. Xue, L. and Yang, L. (2006) Estimation of semiparametric additive coefficient model. *Journal of Statistical Planning and Inference* 136 (8), 2506-2534. **ICSA Student Travel Award** 2004.
74. Yang, L. (2006) Semiparametric GARCH model and foreign exchange volatility. *Journal of Econometrics* 130 (2), 365-384.
75. Chen, R., Yang, L. and Hafner, C. (2004) Nonparametric multi-step ahead prediction in time series analysis. *Journal of the Royal Statistical Society Series B* 66 (3), 669-686.
76. Huang, J. and Yang, L. (2004) Identification of nonlinear additive autoregressive models. *Journal of the Royal Statistical Society Series B* 66 (2), 463-477.

77. Yang, L., Sperlich, S. and Härdle, W. (2003) Derivative estimation and testing in generalized additive models. *Journal of Statistical Planning and Inference* 115 (2), 521-542.
78. Simons, G., Yao, Y. and Yang, L. (2002) Doob, Ignatov and optional skipping. *Annals of Probability* 30 (4), 1933-1958.
79. Yang, L. and Tschernig, R. (2002) Non- and semiparametric identification of seasonal nonlinear autoregression models. *Econometric Theory* 18 (6), 1408-1448.
80. Sperlich, S., Tjøstheim, D. and Yang, L. (2002) Nonparametric estimation and testing of interaction in additive models. *Econometric Theory* 18 (2), 197-251. **Tjalling C. Koopmans Econometric Theory Prize.**
81. Yang, L. (2002) Direct estimation in an additive model when the components are proportional. *Statistica Sinica* 12 (3), 801-821.
82. Tschernig, R. and Yang, L. (2000) Nonparametric lag selection for time series. *Journal of Time Series Analysis* 21 (4), 457-487.
83. Yang, L. (2000) Finite nonparametric GARCH model for foreign exchange volatility. *Communications in Statistics-Theory and Methods* 29 (5 & 6), 1347-1365.
84. Yang, L. (2000) Root-n convergent transformation-kernel density estimation. *Journal of Nonparametric Statistics* 12 (4), 447-474.
85. Yang, L., Härdle, W. and Nielsen, J. P. (1999) Nonparametric autoregression with multiplicative volatility and additive mean. *Journal of Time Series Analysis* 20 (5), 579-604.
86. Yang, L. and Marron, J. S. (1999) Iterated transformation-kernel density estimation. *Journal of the American Statistical Association* 94 (446), 580-589.
87. Yang, L. and Tschernig, R. (1999) Multivariate bandwidth selection for local linear regression. *Journal of the Royal Statistical Society Series B* 61 (4), 793-815.
88. Härdle, W., Tsybakov, A. B. and Yang, L. (1998) Nonparametric vector autoregression. *Journal of Statistical Planning and Inference* 68 (2), 221-245.

Other Publications

- I Chi, Z., Yang, L., Lin, J. and Huang, S. (2019) Prognostics of polygonalization of high-speed railway train wheels using a generalized additive model smoothed by spline-backfitted kernel. *IEEE International Conference on Prognostics and Health Management (ICPHM)*.
- II Tschernig, R. and Yang, L. (2003) Multiple index identification of nonlinear vector autoregression. *Bulletin of the International Statistical Institute 54th Session: Proceedings*, 326-329.
- III Härdle, W., Cizek, P. and Yang, L. (2002) Comments on “An adaptive estimation of dimension reduction space” by Xia et. al. *Journal of the Royal Statistical Society, Series B* 64 (3), 363-410.
- IV Smith, H., Mutka, M. and Yang, L. (2001) Feedback scalability for multicast videoconferencing. *Proceedings of the International Conference on Networks*, 640-648.
- V Yang, L. and Tschernig, R. (2000) Non- and semiparametric identification of seasonal nonlinear autoregression models. *Statistical Modelling: Proceedings of the 15th International Workshop on Statistical Modelling* (Núñez-Antón, Ferreira Ed), 288-293.
- VI Grund, B. and Yang, L. (2000) Hazard regression. *XploRe: Applications Guide* (Härdle, Hlávka, Klinke Ed.), Springer-Verlag, 115-144.

- VII Härdle, W. and Yang, L. (1997) Nonparametric time series model selection. *Interface 96, Computing Science and Statistics*, 407-412.
- VIII Härdle, W., Marron, J. S. and Yang, L. (1997) Discussion of “Polynomial splines and their tensor products in extended linear modelling”, by Stone et. al. *Annals of Statistics* 25 (4), 1443-1450.
- IX Yang, L. (1995) Transformation-density estimation. Ph.D. dissertation, University of North Carolina, Institute of Statistics Mimeo Series #2337.

Guidance of Ph. D. Students as Major Professor (23 Ph.D. students, 15 completed; 28 grand Ph.D. descendants completed, see <https://www.mathgenealogy.org/id.php?id=47442>)

Lan Xue Fall 2002-Summer 2005, Michigan State University
Full/Associate/Assistant Professor 2018-/2011-18/2005-11, Department of Statistics, Oregon State University; **Laha Award**, 2005; **Elected Member**, International Statistical Institute, 2007; P.I., **NSF** awards DMS 0906739, DMS 1812258; P.I., **Simons Foundation** award 272556; **Promising Scholar Award** Oregon State University, 2015

Jing Wang Spring 2003-Spring 2006, Michigan State University
Associate/Assistant Professor 2012-/2006-12, Department of Mathematics, Statistics, and Computer Science, University of Illinois at Chicago; **Laha Award**, 2005; **Elected Member**, International Statistical Institute, 2010; P.I., **NSF** award DMS 1107017

Li Wang Fall 2004-Spring 2007, Michigan State University
Full Professor 2021-, Department of Statistics, George Mason University; **Full/Associate Professor** 2020-21/2014-20, Department of Statistics, Iowa State University; **Associate/Assistant Professor** 2013-14/2007-13, Department of Statistics, University of Georgia; **Laha Award**, 2006; **Chinese Government Award** for Outstanding Self-Financed Students Abroad, 2006; **Elected Member**, International Statistical Institute, 2008; P.I., **NSF** awards DMS 0905730, DMS 1309800, DMS 1542332, DMS 1916204, DMS 2135493, DMS 2203207, **ASA/NSF/BLS** Senior Research Fellowship, US Securities and Exchange Commission Research Fellowship, M. G. Michael Award; Co-P.I., **NSF** awards DMS 1106816, SES 1357585; **Elected Fellow**, Institute of Mathematical Statistics, 2020; **Elected Fellow**, American Statistical Association, 2021; **LAS Award for Mid-Career Achievement in Research**, **COVID-19 Exceptional Effort Award for Research Impact**, Iowa State University, 2021

Rong Liu Fall 2005-Summer 2009, Michigan State University
Full/Associate/Assistant Professor 2023-/2016-23/2009-16, Department of Mathematics and Statistics, University of Toledo; **Laha Award**, 2007; **Elected Member**, International Statistical Institute, 2013

Qiongxia Song Fall 2007-Summer 2010, Michigan State University
Quantitative Financial Analyst 2017-, Bank of America; **Assistant Professor** 2010-17, Department of Mathematical Sciences, University of Texas at Dallas; **Laha Award**, 2009; **Elected Member**, International Statistical Institute, 2011

Shujie Ma Fall 2007-Summer 2011, Michigan State University
Full/Associate/Assistant Professor 2021-/2017-21/2011-17, **Graduate Advisor** 2021-, Department of Statistics, University of California at Riverside; **Laha Award**, 2009; **Chinese Government Award** for Outstanding Self-Financed Students Abroad, 2010; **Elected Member**, International Statistical Institute, 2012; P.I., **NSF** awards DMS 1306972, DMS 1712558, DMS 2014221, DMS 2310288; Co-P.I., **NIH** award R01ES024732; **Elected Fellow**, Institute of Mathematical Statistics, 2022; **Elected Fellow**, American Statistical Association, 2023

Guanqun Cao (co-advisor, David Todem) Spring 2009-Summer 2012, Michigan State University
1855 Professor, Associate Professor 2023-, Department of Statistics and Probability and Department of Computational Mathematics, Science and Engineering, Michigan State University; **Full/Associate/Assistant Professor** 2023/2017-23/2012-17, Department of Mathematics and Statistics, Auburn University; **Laha Award**, 2011; P.I., **Simons Foundation** awards 354917, 849413; P.I., **NSF** award DMS 1736470; Co-P.I., **NSF** award CNS 2319342; **Jack B. Brown Endowed Faculty Award**, 2019; **Elected Member**, International Statistical Institute, 2022

Lijie Gu Fall 2011-Spring 2015, Soochow University
Associate Professor 2016-, Soochow College/School of Mathematical Sciences, Soochow University; **IMS Travel Award**, 2015; P.I., **National Natural Science Foundation of China** award 11701403

Jiangyan Wang Fall 2013-Fall 2016, Soochow University
Associate Professor/Lecturer 2020-/2017-20, School of Statistics and Mathematics, Nanjing Audit University; **National Scholarship**, 2012, 2014; **ASA SPES Roundtable Prize**, 2013; **IMS Travel Award**, 2014; P.I., **National Natural Science Foundation of China** awards 11801272, 12271255; P.I., **Natural Science Foundation of Jiangsu Province** award BK20180820; P.I., **Natural Science Foundation, China of the Higher Education Institutions of Jiangsu Province** award 17KJB110005; **Runze Scholar of Nanjing Audit University**, 2019-22, 2023-; **IMS New Researcher Travel Award**, 2020; **Elected Member**, International Statistical Institute, 2021; P.I., **Philosophy and Social Science Research in Colleges and Universities of Jiangsu Province** award 2019SJA0353; **Qinglan Project of Jiangsu Province of China**, 2021-24

Li Cai Fall 2015-Fall 2018, Soochow University
Associate Professor/Lecturer 2022-/2019-22, School of Statistics and Mathematics, Zhejiang Gongshang University; P.I., **National Natural Science Foundation of China** award 11901521; P.I., **Zhejiang Province Statistical Research Program** award 20TJQN04

Yuanyuan Zhang Fall 2017-Fall 2020, Tsinghua University
Lecturer 2021-, School of Mathematical Sciences, Soochow University; **Peking-Tsinghua Joint Statistics Colloquium Excellent Poster Award**, 2018; **Tsinghua University Department of Industrial Engineering Future Professor Project**, 2018; **ICSA China Conference Junior Researcher Award**, 2019; **Excellent Young Scholar of Soochow University**, 2021-27; P.I., **National Natural Science Foundation of China** award 12301357; P.I., **China Postdoctoral Science Foundation** award 2023M732544 ; P.I., **Key University Science Research Project of Jiangsu Province** award 21KJB110023

Jie Li Fall 2017-Spring 2022, Tsinghua University
Lecturer/Faculty Postdoc 2022-, School of Statistics, Renmin University of China; **Peking-Tsinghua Joint Statistics Colloquium Excellent Poster Award**, 2019; **IMS Hannan Graduate Student Travel Award**, 2020; **Chinese Association for Applied Statistics National Statistics Doctoral Students Forum Second Class Award**, 2020; **First Prize of ISI Jan Tinbergen Awards**, 2021; **Tsinghua University Department of Industrial Engineering Future Professor Project**, 2022; **Tsinghua University Excellent Dissertation Award**, 2022; **Peking-Tsinghua Joint Statistics Colloquium Excellent Graduate Award**, 2022; **City of Beijing Excellent Dissertation Award**, 2023; P.I., **National Natural Science Foundation of China** award 12301366; P.I., **China Postdoctoral Science Foundation** award 2023M733852

Chen Zhong (co-advisor Jun S. Liu) Fall 2017-Spring 2022, Tsinghua University
Lecturer/Key Postdoc 2022-, School of Mathematics and Statistics, Wuhan University; **IMS Hannan Graduate Student Travel Award**, 2021; **The 7th China Graduate Forum on Statistics Best Ten Papers Award**, 2021

Kun Huang Fall 2018-Spring 2023, Tsinghua University
Postdoc 2023-, Department of Statistics, Texas A & M University; **Peking-Tsinghua Joint Statistics Colloquium Excellent Poster Award**, 2021

Zening Song Fall 2018-Spring 2023, Tsinghua University
Lecturer 2023-, School of Statistics and Data Science, Nankai University; **Tsinghua University Department of Industrial Engineering Future Professor Project**, 2022; **The 8th China Graduate Forum on Statistics Best Ten Papers Award**, 2022

Shuang Sun Fall 2019-, Tsinghua University

Sijie Zheng Fall 2019-, Tsinghua University
Peking-Tsinghua Joint Statistics Colloquium Excellent Poster Award, 2022

Yongzhen Feng Fall 2020-, Tsinghua University

Qirui Hu Fall 2020-, Tsinghua University
Chinese Association for Applied Statistics National Statistics Doctoral Students Forum Excellent Award, 2020; **First Prize of ISI Jan Tinbergen Awards**, 2021

Yinghuai Yi Fall 2021-, Tsinghua University

Leheng Cai Fall 2022-, Tsinghua University

Moshu Xu Fall 2023-, Tsinghua University

Da Fang Fall 2024-, Tsinghua University

Guidance of Other Ph. D. Students at Michigan State University

13 in Statistics; 12 in Economics, Measurement and Quantitative Methods, Agricultural Economics, Geography, Education, Computer Science, Biosystems Engineering, Civil Engineering

Evaluation for

• Associate Professorship (24)

Georgia State U, Illinois State U, U of New Hampshire	2008, all successes
Colorado State U, Purdue U, U of Central Florida	2009, all successes
Indiana U Purdue U Indianapolis	2010, success
U of Georgia, U of Illinois at Urbana-Champaign	2011, all successes
Virginia Polytechnic Institute and State U, Clemson U	2012, all successes
U of Illinois at Chicago, College of William and Mary	2013, all successes
George Washington U, Shanghai U of Finance and Economics	2014, all successes
Shanghai U of Finance and Economics	2015, success
Tsinghua U	2016, success
Fudan U, Fudan U	2019, all successes
Renmin U, Renmin U, Fudan U, Xiamen U, Chongqing U	2023, partial success

- **Full Professorship (7)**

U of Minnesota at Duluth	2011, success
Shanghai U of Finance and Economics	2013, success
Baylor U	2014, success
Auburn U	2016
Shanghai U of Finance and Economics	2018, success
Hong Kong Baptist U	2019
Hong Kong Baptist U	2023, success

Conference and Seminar Talks

- 1 Statistical inference for functional time series: autocovariance function. Harbin Institute of Technology, Harbin, China, September, 2023.
- 2 Statistical inference for functional time series: autocovariance function. Renmin University of China, Beijing, China, September, 2023.
- 3 Hypotheses testing of functional principal components. ICSA China Conference, Hong Kong, China, July, 2023.
- 4 Hypotheses testing of functional principal components. Hong Kong Baptist University, Hong Kong, China, July, 2023.
- 5 The story of ERP: functional data with temporally dependent errors. Renmin University of China, Beijing, China, April, 2023.
- 6 Hypotheses testing of functional principal components. Anhui University, Hefei, China, April, 2023.
- 7 Hypotheses testing of functional principal components. Zhejiang Gongshang University, Hangzhou, China, December, 2022.
- 8 Inference for dependent error functional data with application to event-related potentials. The second International Symposium on Spatial Lifecourse Health, Wuhan University, Wuhan, China, December, 2022.
- 9 Hypotheses testing of functional principal components. Southwest Jiaotong University, Chengdu, China, December, 2022.
- 10 Hypotheses testing of functional principal components. Tianyuan Mathematical Center in Southwest China, Sichuan University, Chengdu, China, August, 2022.
- 11 Hypotheses testing of functional principal components. 2022 International Workshop on Complex Functional Data Analysis, Shanghai University of Finance and Economics, Shanghai, China, June, 2022.
- 12 Statistical inference for functional time series: autocovariance function. Shanghai University of Finance and Economics, December, 2021.
- 13 Statistical inference for functional time series: autocovariance function. Chinese Academy of Sciences, November, 2021.
- 14 Statistical inference for functional time series: autocovariance function. Nanjing Audit University, October, 2021.
- 15 Statistical inference for functional time series: autocovariance function. ICSA Applied Statistics Symposium, September, 2021.
- 16 Statistical inference for the mean function of stationary functional time series. The 63-rd ISI World Statistics Congress, Netherlands, Hague, July, 2021.

- 17 Statistics unlocking the mechanism of working memory ability prediction from EEG. Xi'an Jiaotong University, Xi'an, China, May, 2021.
- 18 Oracally efficient estimation for single-index link function with simultaneous confidence band. Peking University, Beijing, China, April, 2021.
- 19 Statistical inference for the mean function of stationary functional time series. Shanghai Jiaotong University, Shanghai, China, January, 2021.
- 20 Statistical inference for the mean function of stationary functional time series. Southwestern University of Finance and Economics, Chengdu, China, January, 2021.
- 21 Statistical inference for the mean function of stationary functional time series. Gregory Chow Center for Economic Research, Xiamen University, Xiamen, China, November, 2020.
- 22 Simultaneous confidence bands for comparing the mean and variance functions of two samples. Shanghai University of Finance and Economics, Shanghai, China, November, 2020.
- 23 Simultaneous confidence bands for comparing the mean and variance functions of two samples. Chinese Academy of Sciences, Beijing, China, November, 2020.
- 24 Statistics unlocking the mechanism of working memory ability prediction from EEG. Bear Club, Beijing, China, October, 2020.
- 25 Prediction of working memory ability based on EEG by functional data analysis. International Biometric Conference 2020, August, 2020.
- 26 Predicting working memory ability from EEG: unlocking the mechanism of memory by statistics. Tenured Full Professor Forum, Tsinghua University, Beijing, China, July, 2020.
- 27 Estimation and inference for generalized geoadditive models. East China Normal University, Shanghai, China, December, 2019.
- 28 Prediction of human cognitive ability based on EEG by functional data analysis. The 3rd Belt & Road Initiative Global Health International Congress, Xi'an Jiaotong University, Xi'an, China, September, 2019.
- 29 Estimation and inference for generalized geoadditive models. Harbin Institute of Technology, Harbin, China, July, 2019.
- 30 Generalized additive model: theory, methods and applications over thirty years. Workshop on Statistical Learning and Econometrics, Dongbei University of Finance and Economics, Dalian, China, July, 2019.
- 31 Generalized additive model: theory, methods and applications over thirty years. The 2019 IMS China Conference, Dalian University of Technology, Dalian, China, July, 2019.
- 32 Generalized additive model: theory, methods and applications over thirty years. The 2019 ICSA China Conference, Nankai University, Tianjin, China, July, 2019.
- 33 Estimation and inference for generalized geoadditive models. Zhejiang University, Hangzhou, China, June, 2019.
- 34 Estimation and inference for generalized geoadditive models. Huazhong University of Science and Technology, Wuhan, China, May, 2019.
- 35 Estimation and inference for generalized geoadditive models. Wuhan University, Wuhan, China, May, 2019.

- 36 Estimation and inference for generalized geoaddivitive models. Shanxi Normal University, Linfen, China, May, 2019.
- 37 Estimation and inference for generalized geoaddivitive models. Hong Kong Baptist University, Hong Kong, China, May, 2019.
- 38 Estimation and inference for generalized geoaddivitive models. Fudan University, Shanghai, China, April, 2019.
- 39 Estimation and inference for generalized geoaddivitive models. Zhejiang Gongshang University, Hangzhou, China, April, 2019.
- 40 Gene environment interaction model of chronic disease. Beijing Anzhen Hospital, Beijing, China, January, 2019.
- 41 Gene environment interaction model of chronic disease. The 2nd Belt & Road Initiative Global Health International Congress, Xi'an Jiaotong University, Xi'an, China, November, 2018.
- 42 Oracally efficient estimation for dense functional data with holiday effects. Workshop on Experimental Design and Statistical Science, Beijing Institute of Technology, Beijing, China, October, 2018.
- 43 Time varying models for time series data. The 206-th Shuangqing Forum, Xiamen University, Xiamen, China, August, 2018.
- 44 Estimation of additive frontier functions with shape constraints. The 2018 ICSA China Conference, Ocean University of China, Qingdao, China, July, 2018.
- 45 Two-step estimation for time varying ARCH model. The Eighth International Forum on Statistics, Renmin University of China, Beijing, China, July, 2018.
- 46 Wide applications of functional data analysis. Chinese Center for Disease Control and Prevention, Beijing, China, June, 2018.
- 47 Generalized additive model: theory, methods and applications over thirty years. Northwestern Polytechnical University, Xi'an, China, June, 2018.
- 48 Generalized additive model: theory, methods and applications over thirty years. The Third Peking-Tsinghua Joint Statistics Colloquium, Peking University, Beijing, China, June 3, 2018.
- 49 Prediction interval for autoregressive time series via oracally efficient estimation of multi-step ahead innovation distribution function. Chinese Academy of Sciences, Beijing, China, March, 2018.
- 50 Wide applications of functional data analysis. Shanghai Jiaotong University, Shanghai, China, March, 2018.
- 51 Prediction interval for autoregressive time series via oracally efficient estimation of multi-step ahead innovation distribution function. Tsinghua University Center for Statistical Science Seminar, Beijing, China, March, 2018.
- 52 Efficient estimation for time varying ARCH model. Harbin Institute of Technology, Harbin, China, January, 2018.
- 53 Wide applications of functional data analysis. Renmin University of China, Beijing, China, December, 2017.
- 54 Efficient estimation for time varying ARCH model. Symposium on Modern Statistics at Xiamen University, Xiamen, China, December, 2017.

- 55 Efficient estimation for time varying ARCH model. SDSForum, Fudan University, Shanghai, China, October, 2017.
- 56 Oracally efficient estimation and consistent model selection for auto-regressive moving average time series with trend. Annual Conference of Chinese Association of Quantitative Economics, Jiangxi University of Finance and Economics, Nanchang, China, October, 2017.
- 57 Wide applications of functional data analysis. Soochow University Center for Systems Biology, Suzhou, China, August, 2017.
- 58 A smooth simultaneous confidence band for correlation curve. Northeast Normal University, Changchun, China, July, 2017.
- 59 A smooth simultaneous confidence band for correlation curve. ICSA China Conference, Jilin, China, July, 2017.
- 60 Oracally efficient estimation for dense functional data with holiday effects. IMS-China, Nanning, China, July, 2017.
- 61 A smooth simultaneous confidence band for correlation curve. Southwestern University of Finance and Economics, Chengdu, China, June, 2017.
- 62 Wide applications of functional data analysis. Professor Salon, Tsinghua University, Beijing, China, June, 2017.
- 63 Statistical inference for functional data via simultaneous confidence regions. Lilac International Conference of Application on Statistics, Harbin Institute of Technology, Harbin, China, June, 2017.
- 64 Oracle-efficient confidence envelopes for covariance functions in dense functional data. The 3rd Meeting of Chinese Association for Applied Statistics Section on High Dimensional Data Statistics, Xiamen University, Xiamen, China, April, 2017.
- 65 Oracally efficient estimation and consistent model selection for auto-regressive moving average time series with trend. Chinese Academy of Sciences, Beijing, China, November, 2016.
- 66 Simultaneous confidence bands for the distribution function of a finite population and its superpopulation. Statistics Workshop, Guangxi Normal University, Guilin, China, October, 2016.
- 67 Simultaneous confidence bands for the distribution function of a finite population and its superpopulation. Jiangsu Applied Statistics Annual Meeting, Yixing, China, September, 2016.
- 68 Simultaneous confidence bands for the distribution function of a finite population and its superpopulation. Renmin University, Beijing, China, September, 2016.
- 69 Oracally efficient estimation and consistent model selection for auto-regressive moving average time series with trend. The Third Taihu International Statistics Forum, Shanghai, China, July, 2016.
- 70 Oracally efficient estimation and consistent model selection for auto-regressive moving average time series with trend. Workshop on Statistics and Stochastic Analysis, Shandong University, Jinan, China, July, 2016.
- 71 Oracally efficient estimation and consistent model selection for auto-regressive moving average time series with trend. FERM 2016, Guangzhou, China, June, 2016.
- 72 Simultaneous confidence bands for the distribution function of a finite population and its superpopulation. Shanghai University of Finance and Economics, Shanghai, China, June, 2016.
- 73 Oracally efficient estimation and consistent model selection for ARMA time series with trend. 2015 International Conference on Data Science, Fudan University, Shanghai, China, December, 2015.

- 74 Oracally efficient estimation for single-index link function with simultaneous confidence band. Shanghai University of Finance and Economics, Shanghai, China, November, 2015.
- 75 Parsimonious, accurate and confident credit rating. Peking University, Beijing, China, October, 2015
- 76 Simultaneous confidence corridors and variable selection for generalized additive model. Chinese University of Hong Kong, Hong Kong, China, August, 2015.
- 77 Oracally efficient estimation for single-index link function with simultaneous confidence band. Harbin Institute of Technology, Harbin, China, July, 2015.
- 78 Simultaneous confidence corridors and variable selection for generalized additive model. Harbin Engineering University, Harbin, China, July, 2015.
- 79 Simultaneous confidence corridors and variable selection for generalized additive model. Nanjing University of Aeronautics and Astronautics, Nanjing, China, July, 2015.
- 80 Simultaneous confidence corridors and variable selection for generalized additive model. Beijing Normal University, Beijing, China, July, 2015.
- 81 Oracally efficient estimation for single-index link function with simultaneous confidence band. IMS-China, Kunming, China, July, 2015.
- 82 Simultaneous confidence corridors and variable selection for generalized additive model. Renmin University of China, Beijing, China, June, 2015.
- 83 Simultaneous confidence corridors and variable selection for generalized additive model. Anhui Normal University, Wuhu, China, April, 2015.
- 84 Oracally efficient estimation and consistent model selection for ARMA time series with trend. Shanghai University of Finance and Economics, Shanghai, China, April, 2015.
- 85 Oracle-efficient confidence envelopes for covariance functions in dense functional data. Tsinghua-Sanya workshop on Big Data, Sanya, China, December, 2014.
- 86 Oracally efficient estimation of innovation quantile and prediction bounds for autoregressive time series. Capital Normal University, Beijing, China, November, 2014.
- 87 Oracally efficient smooth simultaneous confidence band for conditional variance function. Shanghai University of Finance and Economics, Shanghai, China, November, 2014.
- 88 Oracally efficient estimation of innovation quantile and prediction bounds for autoregressive time series. Tongji University, Shanghai, China, July, 2014.
- 89 Statistical inference for functional data via simultaneous confidence regions. Tongji University, Shanghai, China, July, 2014.
- 90 Oracally efficient estimation of autoregressive error distribution with simultaneous confidence band. Hebei University of Technology, Tianjin, China, July, 2014.
- 91 Simultaneous confidence corridors and variable selection for generalized additive model. IMS-APRM, Taipei, July, 2014.
- 92 Oracally efficient estimation of autoregressive error distribution with simultaneous confidence band. FERM 2014, Central University of Finance and Economics, Beijing, China, June, 2014.
- 93 Oracally efficient estimation of autoregressive error distribution with simultaneous confidence band. Nankai University, Tianjin, China, April, 2014.

- 94 Oracally efficient estimation of autoregressive error distribution with simultaneous confidence band. Soochow University, Suzhou, China, January, 2014.
- 95 Statistical inference for functional data via simultaneous confidence regions. The Ninth ICSA International Conference, Hong Kong, China, December, 2013.
- 96 Oracally efficient estimation of autoregressive error distribution with simultaneous confidence band. The Second HKUST International Forum on Probability and Statistics, Hong Kong, China, December, 2013.
- 97 Oracally efficient estimation of ARMA model in the presence of trend. Applicable Semiparametrics, Berlin, October, 2013.
- 98 Oracally efficient estimation of ARMA model in the presence of trend. Joint Statistical Meeting, Montréal, August, 2013.
- 99 Oracally efficient estimation of ARMA model in the presence of trend. Tongji University, Shanghai, China, July, 2013.
- 100 Oracally efficient estimation of autoregressive error distribution with simultaneous confidence bands. Tongji University, Shanghai, China, July, 2013.
- 101 Generalized additive modelling of credit rating. Tongji University, Shanghai, China, July, 2013.
- 102 Statistical inference for functional data via simultaneous confidence regions. IMS-China, Chengdu, China, July, 2013.
- 103 Generalized additive modelling of credit rating. Capital University of Economics and Business, Beijing, China, December, 2012.
- 104 Generalized additive modelling of credit rating. Southeast University, Nanjing, China, October, 2012.
- 105 Efficient inference for autoregression in the presence of trend. Peking University, Beijing, China, June, 2012.
- 106 Generalized additive modelling of credit rating. Shandong University, Jinan, China, May, 2012.
- 107 Efficient inference for autoregression in the presence of trend. Shandong Normal University, Jinan, China, May, 2012.
- 108 Efficient inference for autoregression in the presence of trend. Tongji University, Shanghai, China, April, 2012.
- 109 Generalized additive modelling of credit rating. Nankai University, Tianjin, China, April, 2012.
- 110 Efficient inference for autoregression in the presence of trend. East China Normal University, November, 2011.
- 111 The effects of detrending on time series analysis. The Tenth Meeting of the Jiangsu Society of Probability and Statistics, Suzhou, China, October, 2011.
- 112 Generalized additive modelling of credit rating. The First Wuxi International Statistics Forum, Wuxi, China, July, 2011.
- 113 Generalized additive modelling of credit rating. Workshop on Graphical Models and Related Topics, Northeast Normal University, Changchun, China, July, 2011.
- 114 Generalized additive modelling of credit rating. Huazhong University of Science and Technology, Wuhan, China, April, 2011.

- 115 Two-step estimation of generalized additive model. Huazhong University of Science and Technology, Wuhan, China, April, 2011.
- 116 A simultaneous confidence band for sparse longitudinal regression. Statistics Workshop, Chinese Academy of Sciences, January, 2011.
- 117 A simultaneous confidence band for sparse longitudinal regression. East China Normal University, January, 2011.
- 118 Simultaneous inference for the mean function of dense functional data. Shanghai University of Finance and Economics, December, 2010.
- 119 Simultaneous inference for the mean function of dense functional data. Fudan University, December, 2010.
- 120 A jump-detecting procedure based on spline estimation. Joint Statistical Meeting, Vancouver, August, 2010.
- 121 A simultaneous confidence band for sparse longitudinal regression. National University of Singapore, June, 2010.
- 122 A simultaneous confidence band for sparse longitudinal regression. Peking University, May, 2010.
- 123 A simultaneous confidence band for sparse longitudinal regression. University of Science and Technology of China, May, 2010.
- 124 A simultaneous confidence band for sparse longitudinal regression. Soochow University, May, 2010.
- 125 A simultaneous confidence band for sparse longitudinal regression. University of Georgia, April, 2010.
- 126 Shoemaker Lecture III: A simultaneous confidence band for sparse longitudinal regression. University of Toledo, March, 2010.
- 127 Shoemaker Lecture II: Spline confidence bands for variance function. University of Toledo, March, 2010.
- 128 Shoemaker Lecture I: Polynomial Spline confidence bands for regression curves. University of Toledo, March, 2010.
- 129 Simultaneous confidence band for sparse longitudinal regression curve. Georgia State University, November, 2009.
- 130 Simultaneous confidence band for sparse longitudinal regression curve. Georgia Institute of Technology, November, 2009.
- 131 Simultaneous confidence band for sparse longitudinal regression curve. University of Michigan, October, 2009.
- 132 Spline confidence bands for variance function. Inverse Problems Symposium, Michigan State University, May 2009.
- 133 Spline-backfitted kernel smoothing of additive models in time series. Universität Göttingen, Göttingen, Germany, July 2008.
- 134 Spline-backfitted kernel smoothing of additive models in time series. Universität München (Munich), Munich, Germany, July 2008.
- 135 Spline-backfitted kernel smoothing of additive models in time series. Universität Regensburg, Regensburg, Germany, July 2008.

- 136 Spline-backfitted kernel smoothing of additive models in time series. Kazakh National University, Almaty, Kazakhstan, June 2008.
- 137 Spline single index prediction model. Spring Meeting of ENAR, Washington, D.C., March 2008.
- 138 Spline-backfitted kernel smoothing of additive models in time series. University of Central Florida, November 2007.
- 139 Spline-backfitted kernel smoothing of additive models in time series. Clemson University, October 2007.
- 140 Polynomial Spline confidence bands for regression curves, University of Georgia, October 2007.
- 141 Polynomial Spline confidence bands for regression curves. Georgia Institute of Technology, October 2007.
- 142 Spline-backfitted kernel smoothing of additive models in time series. Joint Statistical Meeting, Salt Lake City, August 2007.
- 143 Spline-backfitted kernel smoothing of additive models in time series. Oregon State University, May 2007.
- 144 Spline-backfitted kernel smoothing of additive models in time series. University of Manitoba, April 2007.
- 145 Spline single index prediction model. University of Illinois at Chicago, March 2007.
- 146 Spline-backfitted kernel smoothing of additive models in time series. Purdue University, March 2007.
- 147 The impact of economic intervention on environmental quality: a nonparametric analysis. Humboldt Universität, June 2006,
- 148 Spline confidence band and hypothesis testing of leaf area index trend in East Africa. Michigan State University, February 2006.
- 149 Efficient and fast spline-backfitted kernel smoothing of additive regression model. Texas A & M University, January 2006.
- 150 Confidence band and hypothesis testing of leaf area index trend. International Conference on Statistics in Honor of Professor Kai-Tai Fang's 65th Birthday, Hong Kong, June 2005.
- 151 Efficient and fast spline-backfitted kernel smoothing of additive regression model. National Tsing Hua University, Taiwan, June 2005.
- 152 Spline confidence band and hypothesis testing of leaf area index trend in East Africa. National Taiwan University, Taiwan, June 2005.
- 153 Efficient and fast spline-backfitted kernel smoothing of additive regression model. National University of Singapore, Singapore, May 2005.
- 154 Spline confidence band and hypothesis testing of leaf area index trend in East Africa. University of South Carolina, March 2005.
- 155 Spline confidence band and hypothesis testing of leaf area index trend in East Africa. Colorado State University, March 2005.
- 156 Spline confidence band and hypothesis testing of leaf area index trend in East Africa. Institute for Mathematical Sciences, National University of Singapore, Singapore, March 2005.
- 157 Nonparametric modelling of quarterly unemployment rates. Zhongnan University of Economics and Law, Wuhan, China, December 2004.
- 158 Additive coefficient modelling. Huazhong University of Science and Technology, Wuhan, China, December 2004.

- 159 Nonparametric modelling of quarterly unemployment rates. Huazhong University of Science and Technology, Wuhan, China, December 2004.
- 160 Nonparametric regression. Huazhong University of Science and Technology, Wuhan, China, November 2004.
- 161 Additive coefficient modelling. Beijing Normal University, Beijing, China, November 2004.
- 162 Additive coefficient modelling. Peking University, Beijing, China, November 2004.
- 163 Additive coefficient modelling. Chinese Academy of Sciences, Beijing, China, October 2004.
- 164 Nonparametric modelling of quarterly unemployment rates. Bureau of Labor Statistics, Washington D. C., July 2004.
- 165 Nonparametric modelling of quarterly unemployment rates. Twenty-fourth International Symposium on Forecasting, Sydney, Australia, July 2004.
- 166 Nonparametric multi-step ahead prediction in time series analysis. Bureau of Labor Statistics, Washington D. C., June 2003.
- 167 Non- and semiparametric identification of seasonal nonlinear autoregression models. Bureau of Labor Statistics, Washington D. C., April 2003.
- 168 Identification of additive nonlinear time series: selecting significant lags. Michigan State University, September 2002.
- 169 Nonparametric estimation of generalized impulse response functions. International Conference on Current Advances and Trends in Nonparametric Statistics, July 2002.
- 170 Identification of additive nonlinear time series: selecting significant lags. Universität Konstanz, Germany, July 2002.
- 171 Identification of additive nonlinear time series: selecting significant lags. Econometrics Seminar, Humboldt Universität, July 2002.
- 172 Identification of additive nonlinear time series: selecting significant lags. University of North Carolina-Charlotte, May 2002.
- 173 Direct estimation in an additive model when the components are proportional. Statistics Colloquium, Wharton School, University of Pennsylvania, September 2001.
- 174 Direct estimation in an additive model when the components are proportional. Statistik-Kolloquium, Universität Giessen, Germany, July 2001.
- 175 Direct estimation in an additive model when the components are proportional. ICSA 2001 Applied Statistics Symposium, Chicago, June 2001.
- 176 Nonparametric estimation of generalized impulse response functions. Statistics Colloquium, Wharton School, University of Pennsylvania, November 2000.
- 177 Nonparametric estimation and testing of interaction in additive models. Joint Statistical Meeting, Indianapolis, August 2000.
- 178 Non- and semiparametric identification of seasonal nonlinear autoregression models. Fifteenth International Workshop on Statistical Modelling, Bilbao, Spain, July 2000.
- 179 Nonparametric multi-step ahead prediction in time series analysis. Twentieth International Symposium on Forecasting, Lisbon, Portugal, June 2000.

- 180 Non- and semiparametric identification of seasonal nonlinear autoregression models. Fifth Congress of Bernoulli Society, Guanajuato, Mexico, May 2000.
- 181 Finite nonparametric GARCH model for foreign exchange volatility. ICSA 1999 Applied Statistics Symposium, Georgetown University, June 1999.
- 182 Multivariate bandwidth selection for local linear regression. Weierstrass Institute of Applied Analysis and Stochastics, July 1998.
- 183 Transformation-kernel density estimation. University of Michigan, April 1998.
- 184 Nonparametric time series model selection. Chinese Academy of Sciences, Beijing, China, June 1997.
- 185 Nonparametric time series model selection. Peking University, Beijing, China, June 1997.
- 186 Nonparametric time series model selection. University of California, Santa Barbara, March 1997.
- 187 Nonparametric time series model selection. Michigan State University, February 1997.
- 188 Nonparametric time series model selection. Georgia Institute of Technology, January 1997.
- 189 Nonparametric time series model selection. Charles University, Czech Republic, December 1996.
- 190 Nonparametric time series model selection. Tilburg University, Netherland, November 1996.
- 191 Nonparametric time series model selection. Weierstrass Institute of Applied Analysis and Stochastics, October 1996.
- 192 Nonparametric time series model selection. Sydney International Statistical Congress, Sydney, Australia, July 1996.
- 193 Nonparametric time series analysis. Sixteenth Meeting of the French-Belgian Statisticians: Nonlinear Time Series Models, Brussels, Belgium, November 23-24, 1995.
- 194 Transformation density estimation. Rutgers University, New Jersey, February 1995.
- 195 The use of transformation in kernel smoothing. The Annual IMS meeting, Chapel Hill, North Carolina, June 1994.

Referee Service (over 180 in total, *more than once)

Advances in Statistical Analysis, Advances in Water Resources, American Statistician, Annals of the Institute of Statistical Mathematics*, Annals of Statistics*, Applied Stochastic Models in Business & Industry, Australian & New Zealand Journal of Statistics*, Biometrics, Biometrika*, Canadian Journal of Statistics*, Computational Statistics, Computational Statistics & Data Analysis*, Econometric Theory*, Electronic Journal of Statistics, IEEE Transactions on Automatic Control*, International Journal of Environmental Studies*, Journal of Applied Econometrics, Journal of Business & Economic Statistics*, Journal of Computational & Graphical Statistics*, Journal of Econometrics*, Journal of Empirical Finance*, Journal of the Royal Statistical Society, Series B*, Journal of Statistical Planning & Inference*, Journal of the American Statistical Association*, Journal of Time Series Analysis*, Journal of Multivariate Analysis*, Journal of Nonparametric Statistics*, Probability Theory & Related Fields*, Sankhya, Scandinavian Journal of Statistics, Statistica Sinica*, Statistical Science, Statistics*, Statistics & Computing*, Statistics & Decisions, Statistics & Probability Letters*, TEST*