

Lexin Li

CONTACT

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RESEARCH INTERESTS

- ▷ Neuroimaging data analysis: brain connectivity analysis, imaging causal inference, imaging genetics, longitudinal imaging analysis, multimodal neuroimaging analysis, tensor analysis
- ▷ Deep brain stimulation, brain-computer-interface
- ▷ Statistical machine learning, deep learning, reinforcement learning
- ▷ Dimension reduction, variable selection, high dimensional regressions
- ▷ Ordinary differential equations, point process, functional data analysis

EDUCATION

- ▷ Ph.D. Statistics. University of Minnesota, Twin Cities 2003
- ▷ M.S. Statistics. University of Minnesota, Twin Cities 2002
- ▷ B.E. Electrical Engineering. Zhejiang University, China 1998

POSITIONS

- ▷ Professor Department of Biostatistics & Helen Wills Neuroscience Institute
University of California, Berkeley
2018 - present
- ▷ Associate Professor Department of Biostatistics, University of California, Berkeley
2014 - 2018
- ▷ Visiting Associate Professor Department of Statistics, Stanford University
2012 - 2013
- ▷ Visiting Associate Professor Yahoo! Research Labs
2011 - 2012
- ▷ Associate Professor Department of Statistics, North Carolina State University
2011 - 2014
- ▷ Assistant Professor Department of Statistics, North Carolina State University
2005 - 2011
- ▷ Post-Doctoral Scholar School of Medicine, University of California, Davis
2003 - 2005

HONORS

- | | |
|---|------|
| ▷ Fellow, American Statistical Association (ASA) | 2017 |
| ▷ Fellow, Institute of Mathematical Statistics (IMS) | 2021 |
| ▷ Elected Member, International Statistical Institute (ISI) | 2021 |

PUBLICATIONS

► Articles in Peer Reviewed Journals

- [1] Shi, C., Zhou, Y., and **Li, L.** (2023+). Testing directed acyclic graph via structural, supervised and generative adversarial learning. *Journal of the American Statistical Association*, accepted.
- [2] Zhang, D., **Li, L.**, Sripada, C., and Kang, J. (2023+). Image response regression via deep neural networks. *Journal of the Royal Statistical Society, Series B.*, accepted.
- [3] Zhou, Y., Shi, C., **Li, L.**, and Yao, Q. (2023+). Testing for the Markov property in time series via deep conditional generative learning, *Journal of the Royal Statistical Society, Series B.*, accepted.
- [4] Dai, X., Lyu, X., and **Li, L.** (2023). Kernel knockoffs selection for nonparametric additive models. *Journal of the American Statistical Association*, 118, 2158-2170.
- [5] **Li, L.**, Zeng, J., and Zhang, X. (2023). Generalized liquid association analysis for multi-modal neuroimaging. *Journal of the American Statistical Association*, 118, 1984-1996.
- [6] Dai, X. and **Li, L.** (2023). Orthogonalized kernel debiased machine learning for multi-modal data analysis. *Journal of the American Statistical Association*, 118, 1796-1810.
- [7] Lee, K.Y., **Li, L.**, Li, B., and Zhao, H. (2023). Nonparametric functional graphical modeling through functional additive regression operator. *Journal of the American Statistical Association*, 118, 1718-1732.
- [8] Tang, X. and **Li, L.** (2023). Multivariate temporal point process regression. *Journal of the American Statistical Association*, 118, 830-845.
- [9] Zhou, J., Sun, W.W., Zhang, J., and **Li, L.** (2023). Partially observed dynamic tensor response regression. *Journal of the American Statistical Association*, 118, 424-439.
- [10] Lee, K.Y., Ji, D., **Li, L.**, Constable, T., and Zhao, H. (2023). Conditional functional graphical models. *Journal of the American Statistical Association*, 118, 257-271.
- [11] Zhang, J., Sun, W.W., and **Li, L.** (2023). Generalized connectivity matrix response regression with applications in brain connectivity studies. *Journal of Computational and Graphical Statistics*, 32, 252-262.
- [12] Lyu, X., Kang, J., and **Li, L.** (2023). Statistical inference for high-dimensional vector autoregression with measurement error. *Statistica Sinica*, 33, 1435-1459.
- [13] Zhou, Y., Shi, C., Qi, Z., and **Li, L.** (2023). Optimizing pessimism in dynamic treatment regimes: a Bayesian learning approach. *Proceedings of Machine Learning Research*, 206, 1-18.

- [14] Li, Q., and Li, L. (2022). Integrative factor regression and its inference for multimodal data analysis. *Journal of the American Statistical Association*, 117, 2207-2221.
- [15] Shi, C., and Li, L. (2022). Testing mediation effects using logic of Boolean matrices. *Journal of the American Statistical Association*, 117, 2014-2027.
- [16] Dai, X., and Li, L. (2022). Kernel ordinary differential equations. *Journal of the American Statistical Association*, 117, 1711-1725.
- [17] Lee, K.Y., and Li, L. (2022). Functional structural equation model. *Journal of the Royal Statistical Society, Series B.*, 84, 600-629.
- [18] Lee, K.Y. and Li, L. (2022). Functional sufficient dimension reduction through average Frechet derivatives. *The Annals of Statistics*, 50, 904-929.
- [19] Li, L., Shi, C., Guo, T., and Jagust, W.J. (2022). Sequential pathway inference for multimodal neuroimaging analysis. *Stat*, 11:e433.
- [20] Liu, Y., Li, L., and Wang, X. (2022). A nonlinear sparse neural ordinary differential equation model for multiple functional processes. *The Canadian Journal of Statistics*, 50, 59-85.
- [21] Luo, L. and Li, L. (2022). Online two-way estimation and inference via linear mixed-effects models. *Statistics in Medicine*, 41, 5113-5133.
- [22] Xia, Y., and Li, L. (2022). Hypothesis testing for network data with power enhancement. *Statistica Sinica*, 32, 293-321.
- [23] Virta, J., Lee, K.Y., and Li, L. (2022). Sliced inverse regression in metric spaces. *Statistica Sinica*, 32, 2315-2337.
- [24] Zhao, Y., and Li, L. (2022). Multimodal data integration via mediation analysis with high-dimensional exposures and mediators. *Human Brain Mapping*, 43, 2519-2533.
- [25] Shi, C., Xu, T., Bergsma, W., and Li, L. (2021). Double generative adversarial networks for conditional independence testing. *Journal of Machine Learning Research*, 22, 1-32.
- [26] Sun, W.W., Hao, B., and Li, L. (2021). Tensor data analysis. *Wiley StatsRef: Statistics Reference Online*, 1-26.
- [27] Wang, Y.R., Li, L., Li, J.J. and Huang, H. (2021). Network modeling in biology: statistical methods for gene and brain networks. *Statistical Science*, 36, 89-108.
- [28] Ye, Y., Xia, Y., and Li, L. (2021). Paired test of matrix graphs and brain connectivity analysis. *Biostatistics*, 22, 402-420.
- [29] Zhao, Y., Li, L., and Caffo, B.S. (2021). Multimodal neuroimaging data integration and pathway analysis. *Biometrics*, 77, 879-889.
- [30] Zhang, J., Sun, W.W., and Li, L. (2020). Mixed-effect time-varying stochastic blockmodel and application in brain connectivity analysis. *Journal of the American Statistical Association*, 115, 2022-2036.
- [31] Xia, Y., Li, L., Lockhart, S.N., Jagust, W. (2020). Simultaneous covariance inference for multimodal integrative analysis. *Journal of the American Statistical Association*, 115, 1279-1291

- [32] Kim, K., Li, B., Yu, Z., and Li, L. (2020). On post dimension reduction statistical inference. *The Annals of Statistics*, 48, 1567-1592.
- [33] Wang, M., and Li, L. (2020). Learning from binary multiway data: probabilistic tensor decomposition and its statistical optimality. *Journal of Machine Learning Research*, 21, 1-38.
- [34] Guo, X., Li, L., and Wu, Q. (2020). Modeling interactive components by coordinate kernel polynomial models. *Mathematical Foundations of Computing*, 3, 263-277.
- [35] Sun, W.W. and Li, L. (2019). Dynamic tensor clustering. *Journal of the American Statistical Association*, 114, 1894-1907.
- [36] Wang, W., Zhang, X., and Li, L. (2019). Common reducing subspace model and network alternation analysis. *Biometrics*, 75, 1109-1120.
- [37] Zhang, X., Li, L., Zhou, H., and Shen, D. (2019). Tensor generalized estimating equations for longitudinal imaging analysis. *Statistica Sinica*, 29, 1977-2005.
- [38] Xia, Y. and Li, L. (2019). Matrix graph hypothesis testing and application in brain connectivity alternation detection. *Statistica Sinica*, 29, 303-328.
- [39] Li, L., Kang, J., Lockhart, S.N., Adams, J., and Jagust, W. (2019). Spatially adaptive varying correlation analysis for multimodal neuroimaging data. *IEEE Transactions on Medical Imaging*, 38, 113-123.
- [40] Zhu, Y. and Li, L. (2018). Multiple matrix Gaussian graphs estimation. *Journal of the Royal Statistical Society, Series B.*, 80, 927-950.
- [41] Li, Q. and Li, L. (2018). Integrative linear discriminant analysis with guaranteed error rate improvement. *Biometrika*, 105, 917-930.
- [42] Li, X., Xu, D., Zhou, H., and Li, L. (2018). Tucker tensor regression and neuroimaging analysis. *Statistics in Biosciences*, 10, 520-545.
- [43] Adams J.N., Lockhart, S.N., Li, L., and Jagust, W.J. (2018). Relationships between tau and glucose metabolism reflect Alzheimer's disease pathology in cognitively normal older adults. *Cerebral Cortex*, 29, 1997-2009.
- [44] Li, L. (2018). Sufficient dimension reduction. *Wiley StatsRef: Statistics Reference Online*, 1-8.
- [45] Li, L. and Zhang, X. (2017). Parsimonious tensor response regression. *Journal of the American Statistical Association*, 112, 1131-1146.
- [46] Sun, W.W. and Li, L. (2017). Sparse tensor response regression and neuroimaging analysis. *Journal of Machine Learning Research*, 18, 4908-4944.
- [47] Zhang, X. and Li, L. (2017). Tensor envelope partial least squares regression. *Technometrics*, 59, 426-436.
- [48] Xia, Y. and Li, L. (2017). Hypothesis testing of matrix graph model and application in brain connectivity analysis. *Biometrics*, 73, 780-791.
- [49] Li, Z., Suk, H-I., Shen, D., and Li, L. (2016). Sparse multi-response tensor regression for

- Alzheimer's disease study with multivariate clinical assessments. *IEEE Transactions on Medical Imaging*, 35, 1927-1936.
- [50] Kang, J. and Li, L. (2016). Discussion of "Fiber direction estimation, smoothing and tracking in diffusion MRI" by R. Wong, et al. *The Annals of Applied Statistics*, 10, 1162-1165
 - [51] Guo, Z., Li, L., Lu, W., and Li, B. (2015). Groupwise dimension reduction via envelope method. *Journal of the American Statistical Association*, 110, 1515-1527.
 - [52] Zhou, H., and Li, L. (2014). Regularized matrix regression. *Journal of the Royal Statistical Society, Series B.*, 76, 463-483.
 - [53] Ding, X., Li, L., and Zhu, L.X. (2014). Goodness-of-fit testing-based selection for large-p-small-n problems: a two-stage ranking approach. *Journal of Statistical Planning and Inference*, 145, 148-164.
 - [54] Zhao, J., Leng, C., Li, L., and Wang, H. (2013). High dimensional influence measure. *The Annals of Statistics*, 41, 2639-2667.
 - [55] Zhou, H., Li, L., and Zhu, H. (2013). Tensor regression with applications in neuroimaging data analysis. *Journal of the American Statistical Association*, 108, 540-552.
 - [56] Zhu, H., Li, L., and Zhou, H. (2012). Nonlinear dimension reduction with Wright-Fisher kernel for genotype aggregation and association mapping. *Bioinformatics*, 28, 375-381.
 - [57] Sun, W., and Li, L. (2012). Multiple loci mapping via model-free variable selection. *Biometrics*, 68, 18-22.
 - [58] Li, B., Artemiou, A., and Li, L. (2011). Principal support vector machines for linear and nonlinear sufficient dimension reduction. *The Annals of Statistics*, 39, 3182-3210.
 - [59] Zhu, L.P., Li, L., Li, R., and Zhu, L.X. (2011). Model-free feature screening for ultrahigh dimensional data. *Journal of the American Statistical Association*, 106, 1464-1475.
 - [60] Reich, B.J., Bondell, H.D., and Li, L. (2011). Sufficient dimension reduction via Bayesian mixture modeling. *Biometrics*, 67, 886-895.
 - [61] Lu, W., and Li, L. (2011). Sufficient dimension reduction for censored regressions. *Biometrics*, 67, 513-523.
 - [62] Zhu, H., and Li, L. (2011). Biological pathway selection through nonlinear dimension reduction. *Biostatistics*, 12, 429-444.
 - [63] Wu, Y., and Li, L. (2011). Asymptotic properties of sufficient dimension reduction with a diverging number of predictors. *Statistica Sinica*, 21, 707-730.
 - [64] Li, L., Zhu, L.P., and Zhu, L.X. (2011). Inference on the primary parameter of interest with the aid of dimension reduction estimation. *Journal of the Royal Statistical Society, Series B.*, 73, 59-80.
 - [65] Shao, X., and Li, L. (2011). Data-driven multi-touch attribution models. *Proceedings of the 17th ACM SIGKDD international conference on knowledge discovery and data mining*, San Diego, CA.

- [66] Li, L. (2010). Dimension reduction for high dimensional data. In *Statistical Methods in Molecular Biology*, Ed. Bang, H., Zhou, X., Van Epps, H.L. and Mazumdar, M. Humana Press.
- [67] Li, L., Li, B., and Zhu, L.X. (2010). Groupwise dimension reduction. *Journal of the American Statistical Association*, 105, 1188-1201.
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- [69] Cai, Y., Chow, M.Y., Lu, W., and Li, L. (2010). Evaluation of distribution fault diagnosis algorithms using ROC curves. *Proceedings of Power and Energy Society General Meeting*, Minneapolis, MN. 1-6.
- [70] Cook, R.D., and Li, L. (2009). Dimension reduction in regressions with exponential family predictors. *Journal of Computational and Graphical Statistics*, 18, 774-791.
- [71] Setodji, C.M., and Li, L. (2009). Model free multivariate reduced-rank regression with categorical predictors. *Statistica Sinica*, 19, 1119-1136.
- [72] Li, L., and Yin, X. (2009). Longitudinal data analysis using sufficient dimension reduction method. *Computational Statistics and Data Analysis*, 53, 4106-4115.
- [73] Li, L. (2009). Exploiting predictor domain information in sufficient dimension reduction. *Computational Statistics and Data Analysis*, 53, 2665-2672.
- [74] Bondell, H.D., and Li, L. (2009). Shrinkage inverse regression estimation for model free variable selection. *Journal of the Royal Statistical Society, Series B.*, 71, 287-299.
- [75] Cornish, K.M., Kogan, C.S., Li, L., Turk, J., Jacquemont, S., and Hagerman, R.J. (2009). Lifespan changes in working memory in fragile X premutation males. *Brain and Cognition*, 69, 551-558.
- [76] Lu, W., and Li, L. (2008). Boosting methods for nonlinear transformation models with censored survival data. *Biostatistics*, 9, 658-677.
- [77] Li, L., and Tsai, C.L. (2008). Constrained regression model selection. *Journal of Statistical Planning and Inference*, 138, 3939-3949.
- [78] Li, L., and Yin, X. (2008). Rejoinder to "A note on sliced inverse regression with regularizations". *Biometrics*, 64, 984-986.
- [79] Li, L., and Lu, W. (2008). Sufficient dimension reduction with missing predictors. *Journal of the American Statistical Association*, 103, 822-831.
- [80] Li, L. (2008). Comments on "Augmenting the bootstrap to analyze high dimensional genomic data" by S. Tyekucheva and F. Chiaromonte. *Test*, 17, 22-24.
- [81] Li, L., and Yin, X. (2008). Sliced inverse regression with regularizations. *Biometrics*, 64, 124-131.
- [82] Leehey, M.A., Berry-Kravis, E., Goetz, C.G., Zhang, L., Hall, D.A., Li, L., Rice, C.D., Lara, R., Cogswell, J., Reynolds, A., Gane, L., Jacquemont, S., Tassone, F., Grigsby, J., Hagerman, R.J., and Hagerman, P.J. (2008). FMR1 CGG repeat length predicts motor dysfunction in premutation carriers. *Neurology*, 70, 1397-1402.

- [83] Cornish, K.M., Li, L., Kogan, C.S., Jacquemont, S., Turk, J., Dalton, A., Hagerman, R.J., and Hagerman, P.J. (2008). Age-dependent cognitive changes in carriers of the Fragile X Syndrome. *Cortex*, 44, 628-636.
- [84] Li, L. (2007). Sparse sufficient dimension reduction. *Biometrika*, 94, 603-613.
- [85] Li, L., Cook, R.D., and Tsai, C.L. (2007). Partial inverse regression method. *Biometrika*, 94, 615-625.
- [86] Li, L., and Nachtsheim, C.J. (2007). Comment on "Fisher lecture: dimension reduction in regression" by R. D. Cook. *Statistical Science*, 22, 36-39.
- [87] Li, L., Simonoff, J.S., and Tsai, C.L. (2007). Tobit model estimation and sliced inverse regression. *Statistical Modelling*, 7, 107-123.
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- [91] Li, L., and Nachtsheim, C.J. (2006). Sparse sliced inverse regression. *Technometrics*. 48, 503-510.
- [92] Azari, R., Li, L., and Tsai, C.L. (2006). Longitudinal data model selection. *Computational Statistics and Data Analysis*, 50, 3053-3066.
- [93] Li, L. (2006). Survival prediction of diffuse large-B-cell lymphoma based on both clinical and gene expression information. *Bioinformatics*, 22, 466-471.
- [94] Li, L., Cook, R.D., and Nachtsheim, C.J. (2005). Model-free variable selection. *Journal of the Royal Statistical Society, Series B.*, 67, 285-299.
- [95] Li, L., and Li, W. (2005). Tabu search and perturbation methods in the construction of supersaturated designs. *American Journal of Mathematical and Management Sciences*, 25, 189-205.
- [96] Li, L., Cook, R.D., and Nachtsheim, C.J. (2004). Cluster-based estimation for sufficient dimension reduction. *Computational Statistics and Data Analysis*, 47, 175-193.
- [97] Li, L., and Li, H. (2004). Dimension reduction methods for microarrays with application to censored survival data. *Bioinformatics*, 20, 3406-3412.
- [98] Li, L., and Nachtsheim, C.J. (2004). Discussion of "A goodness-of-fit test for single-index models" by Y. Xia, et al. *Statistica Sinica*, 14, 28-34.
- [99] Cook, R.D., and Li, L. (2003). Discussion of "The focused information criterion" by G.

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- [100] Li, L. (2002). Comment on “An adaptive estimation of dimension reduction space” by Y. Xia, et al. *Journal of the Royal Statistical Society, Series B.*, 64, 399-400.

GRANTS

- ▷ NSF CIF-2102227. 07/2021 - 06/2024
Collaborative Research: Graphical Modeling of Multivariate Functions.
 Principle Investigator
- ▷ NSF I-Corps-2133869. 06/2021 - 11/2022
Hilbert Matching.
 Principle Investigator
- ▷ NIH R01AG061303. 02/2019 - 11/2022
New Statistical Methods for Multicenter Multimodal Longitudinal Neuroimaging Analysis.
 Principle Investigator
- ▷ NIH R01AG062542. 09/2019 - 08/2024
Mechanisms of Alzheimer’s Disease Progression in the Aging Brain
 Co-Investigator (PI: William Jagust)
- ▷ NIH R01AG034570. 09/2016 - 08/2021
Neural and Biochemical Mechanisms of Cognitive Aging
 Co-Investigator (PI: William Jagust)
- ▷ NSF DMS-1613137. 09/2016 - 08/2019
Collaborative Research: Tensor Envelope Model - A New Approach for Regressions with Tensor Data.
 Principle Investigator
- ▷ NSF DMS-1310319. 07/2013 - 06/2016
Tensor Regressions and Applications in Neuroimaging Data Analysis.
 Co-Principle Investigator (PI: Hua Zhou)
- ▷ NSF DMS-1106668. 07/2011 - 06/2014
New Dimension Reduction Approaches for Modern Scientific Data with High Dimensionality and Complex Structure.
 Principle Investigator
- ▷ Research Grants Council of Hong Kong 01/2010 - 12/2011
On Inference and Variable Selection for Semiparametric Models with High Dimensional Predictors.
 Co-Principle Investigator (PI: Lixing Zhu)
- ▷ NSF DMS-0706919. 09/2007 - 09/2010
Sufficient Dimension Reduction for Missing, Censored, and Correlated Data.
 Principle Investigator

PRESENTATIONS

► Invited Conference Talks

▷ Joint Statistical Meetings, Toronto, Canada	08/2023
▷ Annual Conference for Statistical Methods in Imaging, Minneapolis, MN	05/2023
▷ IMS International Conference on Statistics and Data Science, Florence, Italy	12/2022
▷ Joint Statistical Meetings, Washington, D.C.	08/2022
▷ Annual Conference for Statistical Methods in Imaging, Nashville, TN	05/2022
▷ Workshop on New Challenges and Novel Solutions in Statistics and Data Science, Irvine, CA	04/2022
▷ ENAR, Houston, TX	03/2022
▷ Joint Statistical Meetings, Seattle, WA	09/2021
▷ Annual Conference for Statistical Methods in Imaging, Atlanta, GA	05/2021
▷ Pacific Causal Inference Conference, Beijing, China	09/2020
▷ Joint Statistical Meetings, Philadelphia, PA	08/2020
▷ Joint Statistical Meetings, Denver, CO	08/2019
▷ International Workshop on Perspectives on High-dimensional Data Analysis, Uppsala, Sweden	06/2019
▷ International Conference on Frontiers of Data Science, Hangzhou, China	05/2019
▷ Computational and Methodological Statistics Workshop, Pisa, Italy	12/2018
▷ Joint Statistical Meetings, Vancouver, Canada	08/2018
▷ Peter Hall Memorial Conference, Davis, CA	05/2018
▷ Joint Statistical Meetings, Baltimore, MD	08/2017
▷ ISI World Statistics Congress, Marrakech, Morocco	07/2017
▷ International Conference on Econometrics and Statistics, Hong Kong, China	06/2017
▷ ENAR, Washington, DC	03/2017
▷ ICSA International Conference, Shanghai, China	12/2016
▷ Joint Statistical Meetings, Chicago, IL	08/2016
▷ Annual Conference for Statistical Methods in Imaging, Aurora, CO	06/2016
▷ SAMSI Workshop on Challenges in Functional Connectivity Modeling and Analysis, Durham, NC	04/2016
▷ Workshop on Mathematical and Statistical Challenges in Neuroimaging Data Analysis, Banff, Canada	02/2016
▷ IMS International Conference on Statistics and Probability, Kunming, China	06/2015
▷ SRCOS Summer Research Conference, Carolina Beach, NC	06/2015

▷ Inaugural Conference for Statistical Methods in Imaging, Ann Arbor, MI	05/2015
▷ International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Plenary Speaker, Greensboro, NC	10/2014
▷ ICSA and KISS Applied Statistics Symposium, Portland, OR	06/2014
▷ International Conference on Statistics and Probability, Chengdu, China	07/2013
▷ Workshop on Meeting the Challenges of High Dimension, Singapore City, Singapore	10/2012
▷ European Conference on Computational Biology, Basel, Switzerland	09/2012
▷ Second IMS Asia Pacific Rim Meeting, Tsukuba, Japan	07/2012
▷ Joint Statistical Meetings, Miami, FL	08/2011
▷ ICSA Applied Statistics Symposium, New York, NY	06/2011
▷ First Joint Biostatistics Symposium, Beijing, China	07/2010
▷ International Conference on Statistical Analysis of Complex Data, Kunming, China	07/2010
▷ ENAR, New Orleans, LA	03/2010
▷ Summer Research Conference, Jekyll Island, GA	06/2009
▷ Joint Statistical Meetings, Denver, CO	08/2008
▷ Workshop on Future Directions in High-Dimensional Analysis, Cambridge, UK	06/2008
▷ ICSA Applied Statistics Symposium, Piscataway, NJ	06/2008
▷ Current and Future Trends in Nonparametrics Conference, Columbia, SC	10/2007
▷ International Conference on Bioinformatics, Hangzhou, China	06/2007
▷ ICSA Applied Statistics Symposium, Raleigh, NC	06/2007
▷ Spring Research Conference, Technometrics Invited Session, Ames, IA	05/2007
▷ ENAR, IMS Invited Session, Tampa, FL	03/2006
▷ Quality and Productivity Research Conference, Minneapolis, MN	05/2005
► Invited Seminar Talks	
▷ Statistics Laboratory, University of Cambridge	08/2023
▷ Department of Statistics, Tech University of Vinnea	06/2023
▷ Department of Biomedical Data Science, Stanford University	05/2023
▷ Department of Statistics, Chinese University of Hong Kong	04/2023
▷ Department of Biostatistics, Harvard University	03/2023
▷ Department of Statistics, Rutgers University	03/2023
▷ Department of Statistics, Stony Brook University	12/2022
▷ Department of Statistics, Rice University	11/2022

▷ Department of Biostatistics, University of Texas Health Science Center	11/2022
▷ School of Statistics, University of Minnesota	10/2022
▷ Department of Statistics, Stanford University	03/2022
▷ Department of Statistics, City University of Hong Kong	05/2021
▷ Department of Statistics, University of Illinois, Urbana-Champaign	04/2021
▷ Department of Statistics, Ohio State University	04/2021
▷ Department of Biostatistics, University of Pittsburgh	03/2021
▷ Department of Biostatistics and Epidemiology, University of Pennsylvania	10/2019
▷ Department of Statistical Science, Temple University	10/2019
▷ Department of Biomedical Data Science, Stanford University	03/2019
▷ Department of Biostatistics, University of Michigan	11/2018
▷ Department of Statistics, University of California, Irvine	10/2017
▷ Department of Biostatistics, University of California, Los Angeles	10/2017
▷ Department of Biostatistics, University of Minnesota	10/2017
▷ Department of Statistics, Fudan University, China	07/2017
▷ Department of Applied Mathematics and Statistics, University of California, Santa Cruz	05/2017
▷ Department of Biostatistics, Columbia University	04/2017
▷ Department of Statistics, University of North Carolina, Chapel Hill	04/2016
▷ Department of Biostatistics, University of Washington	03/2016
▷ Department of Epidemiology and Biostatistics, University of California, San Francisco	10/2015
▷ Adobe, Inc., San Jose, CA	08/2015
▷ Department of Statistics, Southwestern University of Finance and Economics, China	07/2015
▷ Department of Mathematics, University of Electronic Science and Technology, China	07/2015
▷ Genentech, Inc., San Francisco, CA	05/2015
▷ Department of Statistics, University of California, Berkeley	09/2014
▷ Division of Biostatistics, University of California, Berkeley	01/2014
▷ Department of Statistics, Stanford University	03/2013
▷ Department of Applied Mathematics and Statistics, University of California, Santa Cruz	01/2013
▷ Marshall School of Business, University of Southern California	11/2012
▷ Department of Statistics, University of California, Davis	02/2012

▷ Division of Biostatistics, Stanford University	10/2011
▷ Center for Imaging and Neurodegenerative Diseases, San Francisco	09/2011
▷ Department of Biostatistics, Columbia University	04/2011
▷ Department of Environmental Medicine, New York University	04/2011
▷ Department of Statistics, University of Missouri	03/2011
▷ Department of Statistics and Applied Probability, National University of Singapore	06/2010
▷ Department of Statistics and Probability, Michigan State University	03/2010
▷ Department of Statistics, University of Illinois, Urbana Champaign	02/2010
▷ Department of Statistics, University of Toronto	11/2009
▷ School of Statistics, University of Minnesota	09/2009
▷ Department of Statistics, Stanford University	07/2009
▷ Booth School of Business, University of Chicago	05/2009
▷ The Methodology Center, Penn State University	02/2009
▷ Biostatistics Branch, National Institute of Environmental Health Sciences	10/2008
▷ School of Public Health, Biostatistics Program, Yale University	09/2008
▷ Department of Statistics, University of Virginia	04/2008
▷ Department of Statistical Science, Duke University	03/2008
▷ Department of Mathematics, Hong Kong Baptist University	12/2007
▷ Department of Statistics, University of North Carolina, Chapel Hill	12/2007
▷ Department of Statistics, Penn State University	11/2007
▷ Department of Statistics, Oregon State University	05/2007
▷ Department of Bioinformatics and Biostatistics, University of Louisville	04/2006
▷ Department of Statistics, University of Georgia	11/2005
▷ Department of Biostatistics, University of Minnesota	02/2005
▷ Department of Biostatistics, Johns Hopkins University	02/2005
▷ Department of Biostatistics, University of Washington	02/2005
▷ Department of Statistics, North Carolina State University	02/2005
▷ Department of Biostatistics, Emory University	02/2005
▷ Department of Mathematics and Statistics, University of Massachusetts, Amherst	01/2005
▷ Center for Statistical Sciences, Brown University	01/2005
▷ Department of Statistics, University of Illinois, Urbana Champaign	01/2005
▷ Department of Statistics, Northwestern University	01/2005
▷ Institute for Data Analysis and Visualization, University of California, Davis	11/2003

► **Invited Short Courses**

- ▷ Northeast Normal University, Statistics Graduate Summer Program 07/2013
- ▷ SAS Institute, JMP Group 05/2007

► **Contributed Conference Talks**

- ▷ Workshop on Model Selection and Related Areas, Vienna, Austria 07/2008
- ▷ Joint Statistical Meetings, Salt Lake City, UT 08/2007
- ▷ ENAR, Atlanta, GA 03/2007
- ▷ Joint Statistical Meetings, Seattle, WA 08/2006
- ▷ International Conference on Robust Statistics, Lisbon, Portugal 07/2006
- ▷ Joint Statistical Meetings, Minneapolis, MN 08/2005
- ▷ Joint Statistical Meetings, San Francisco, CA 08/2003
- ▷ INFORMS Annual Meeting, San Jose, CA 11/2002

TEACHING EXPERIENCE

- ▷ Big Data: A Public Health Perspective. UC Berkeley Spring, 2015-2023
- ▷ Introduction to Multivariate Statistics. UC Berkeley Fall, 2014-2022
- ▷ Advanced Topic: Big Data, a Statistical Perspective. NCSU Fall, 2013
- ▷ Nonlinear Models for Univariate and Multivariate Responses. NCSU Fall, 2013, 2010
- ▷ Statistical Multivariate Analysis. NCSU Spring, 2011, 2010, 2009
- ▷ Advanced Topic: Introduction to Dimension Reduction for Regression. NCSU Fall, 2009, 2007
- ▷ Introduction to Probability and Distribution Theory. NCSU Spring, 2008, 2007
- ▷ Introduction to Statistical Inference and Regression. NCSU Fall, 2009, Fall, 2008, Spring, 2006, Fall, 2005
- ▷ Introduction to Statistical Analysis. University of Minnesota Fall, 2002

CONSULTING EXPERIENCE

- ▷ Statistical Consulting Center, University of Minnesota Spring, 2001, Summer, 2002
- ▷ Statistical Consulting Center, 3M St Paul, MN (Intern) Summer 1999, Summer, 2000

PROFESSIONAL SERVICES

- ▷ Associate Editor, *Journal of the American Statistical Association*, 2014-present.
- ▷ Associate Editor, *Annals of Applied Statistics*, 2022-present.
- ▷ Associate Editor, *Statistics in Biosciences*, 2021-present.
- ▷ Associate Editor, *Journal of Statistical Theory and Practice*, 2019-present.

- ▷ Associate Editor, *Technometrics*, 2013-2018.
- ▷ Program Chair, American Statistical Association, Section on Statistics in Imaging, 2017
- ▷ Program Chair, SLDS 2020, WNAR 2020
- ▷ Program Committee, ICSA Applied Statistics Symposium, Chicago, IL, 2017