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Academic Positions

- 11/2018 - Present Professor, Data Sciences and Operations Department, Marshall School of Business
 University of Southern California, Los Angeles, CA
- 11/2018 - Present Professor, Department of Mathematics, Dornsife College of Letters, Arts and Sciences
 University of Southern California, Los Angeles, CA
- 4/2016 - Present McAlister Associate Professor in Business Administration, Data Sciences and Operations Department, Marshall School of Business
 University of Southern California, Los Angeles, CA
- 4/2015 - Present Associate Fellow, USC Dornsife Institute for New Economic Thinking (INET)
 University of Southern California, Los Angeles, CA
- 8/2016 - Present Board Member, USC Machine Learning Center
 University of Southern California, Los Angeles, CA
- 3/2017 - 11/2018 Associate Professor, Department of Mathematics, Dornsife College of Letters, Arts and Sciences
 University of Southern California, Los Angeles, CA
- 3/2014 - 11/2018 Associate Professor, Data Sciences and Operations Department, Marshall School of Business
 University of Southern California, Los Angeles, CA
- 8/2015 - 1/2016 Visiting Scholar, Department of Statistics (Host: Professor Emmanuel Candès)
 Stanford University, Stanford, CA
- 8/2015 - 12/2015 Visiting Scholar, Department of Statistics (Host: Professor Peter Bickel)
 University of California, Berkeley, Berkeley, CA
- 7/2007 - 3/2014 Assistant Professor, Data Sciences and Operations Department, Marshall School of Business
 University of Southern California, Los Angeles, CA

Education

- 9/2003 - 6/2007 Ph.D. in Mathematics
 Princeton University, Princeton, NJ
Ph.D. Dissertation: High Dimensional Variable Selection and Covariance Matrix Estimation
- 9/2001 - 7/2003 M.S. in Mathematics
 University of Science and Technology of China, China
- 9/1997 - 7/2001 B.S. in Mathematics
 University of Science and Technology of China, China

Honors, Awards and Grants

2017	2017 Dean's Award for Research Impact (<i>1 out of all research faculty at USC's Marshall School of Business based on the impact of influential papers published over the past ten years</i>)
2017 - 2018	Adobe Data Science Research Award, "IBASE: Adaptive Causal Inference by Integrating Big Data and Small Experiments," Co-PI
2015	The Royal Statistical Society (RSS) Guy Medal in Bronze
2010 - 2015	National Science Foundation (NSF) Faculty Early Career Development (CAREER) Award DMS-0955316, "High Dimensional Variable Selection and Risk Properties," PI
2008	Journal of the Royal Statistical Society Series B Discussion Paper
2008 - Present	Associate Editors of <i>The Annals of Statistics</i> (2013 - 2018), <i>Journal of Business & Economic Statistics</i> (2018 - Present), and <i>Statistica Sinica</i> (2008 - 2016)
2018	Marshall Institute for Outlier Research in Business (iORB) Conferences & Workshops Funding, " <i>Inaugural</i> Business Research Applications Needing Data Science (BRANDS) Workshop," Co-Lead Organizer
2017 - 2018	2017 Zumberge Individual Mentor Award from USC
2017 - 2018	Lord Foundation Grant, "Scalable Heterogeneity Pursuit via Random Projection Ensemble," Co-PI
2016 - 2017	Marshall Outlier Research Grant, "A Paradigm of FDR Control in High-Dimensional Nonlinear Models," PI
2016 - 2021	Simons Foundation Collaboration Grant for Mathematicians, "High-Dimensional Sparse Inference with Scalability," PI
2014 - Present	USC Marshall Summer Research Funding
2011	Annual Review of Economics Invited Review Article
2010	Statistica Sinica Invited Review Article
2009	2009 Dean's Award for Research Excellence
2009	Invited Talk in a Distinguished Lecture Session on High-Dimensional Data Analysis at the 2009 Institute of Mathematical Statistics Asia Pacific Rim Meetings
2008 - 2011	NSF Grant DMS-0806030, "Variable Selection in High Dimensional Feature Space with Applications to Covariance Matrix Estimation and Functional Data Analysis," PI
2008 - 2009	2008 Zumberge Individual Award from USC's James H. Zumberge Faculty Research and Innovation Fund, "High Dimensional Variable Selection and Covariance Matrix Estimation," PI
Fall 2006	Graduate Fellow at Statistical and Applied Mathematical Sciences Institute (SAMSI)
2003 - 2004	Princeton University Fellowship
2002	Huawei Scholarship
2001	Shing-Tung Yau Scholarship
2001	Meritorious Award in 2001 Interdisciplinary Contest in Modeling
2000	First Prize in 2000 China Mathematical Contest in Modeling
1997 - 2001	USTC Excellent Student Scholarship

Research Interests

- Statistical machine learning
- Deep learning
- Causal inference
- High-dimensional statistics and large-scale inference
- Big data problems
- Personalized medicine and choices
- Scalable Bayesian inference
- Networks
- Business and neuroscience applications
- Financial econometrics

Representative Publications/Manuscripts

1. Fan, Y., Demirkaya, E., Li, G. and Lv, J. (2018). RANK: large-scale inference with graphical nonlinear knockoffs. *Journal of the American Statistical Association*, to appear.

[Power and reproducibility are key to refined scientific discoveries in big data applications with general high-dimensional nonlinear models. The recently introduced general framework of model-X knockoffs provides an effective way of controlling the fraction of false discoveries for high-dimensional nonlinear models. Can the power of feature selection procedures be retained when one intends to ensure the reproducibility? How can we establish the robustness theory for knockoffs inference under unknown covariate distribution? This paper provides some surprising insights into these questions.]

2. Fan, Y., Demirkaya, E. and Lv, J. (2018). Nonuniformity of p-values can occur early in diverging dimensions. *Manuscript*.

[The tool of p-values is fundamental to statistical inference. Conventional p-values in Gaussian linear model are valid even when dimensionality is a non-vanishing fraction of sample size, but can break down when design matrix becomes singular in higher dimensions or when error is non-Gaussian. When can conventional p-values in generalized linear models become invalid in diverging dimensions? This paper provides some surprising insights into this question.]

3. Candès, E. J., Fan, Y., Janson, L. and Lv, J. (2018). Panning for gold: ‘model-X’ knockoffs for high dimensional controlled variable selection. *Journal of the Royal Statistical Society Series B* **80**, 551–577.

[Finding the key causal factors in large-scale applications is much beyond the task of prediction. Quantifying the variability, reliability, and reproducibility of a set of discovered factors is central to enabling valid and credible scientific discoveries and investigations. How can we design a variable selection procedure for high-dimensional nonlinear models with statistical guarantees that the fraction of false discoveries can be controlled? This paper provides some surprising insights into this long-standing open question.]

4. Ren, Z., Kang, Y., Fan, Y. and Lv, J. (2018). Tuning-free heterogeneous inference in massive networks. *Journal of the American Statistical Association*, to appear.

[Heterogeneity is a major feature of large-scale data sets in the big data era, powering meaningful scientific discoveries through the understanding of important differences among subpopulations of interest. How can we uncover the heterogeneity among a large collection of networks in a tuning-free yet statistically optimal fashion? This paper provides some surprising insights into this question.]

5. Uematsu, Y., Fan, Y., Chen, K., Lv, J. and Lin, W. (2018). SOFAR: large-scale association network learning. *Manuscript*.

[How are memory states with different time constants encoded in different brain regions? How can we determine the number of key memory components? Understanding the meaningful associations among a large number of responses and predictors is key to many such contemporary scientific studies and investigations. This paper provides a unified framework that enables us to probe the large-scale response-predictor association networks through different layers of latent factors with interpretability and orthogonality.]

6. Kong, Y., Li, D., Fan, Y. and Lv, J. (2017). Interaction pursuit in high-dimensional multi-response regression via distance correlation. *The Annals of Statistics* **45**, 897–922.

[Understanding how features interact with each other is of paramount importance in many scientific discoveries and contemporary applications. To discover important interactions among features in high dimensions, it has been a convention to resort to some structural constraints such as the heredity assumption. Yet some key causal factors can become active only when acting jointly, but not so when acting alone. How can we go beyond such structural assumptions for better flexibility in real applications? This paper provides some surprising insights into this question.]

7. Fan, Y. and Lv, J. (2016). Innovated scalable efficient estimation in ultra-large Gaussian graphical models. *The Annals of Statistics* **44**, 2098–2126.

[Large precision matrix estimation has long been perceived fundamentally different from large covariance matrix estimation. What if we can *innovate* the data matrix and convert the former into the latter? This paper provides a surprisingly simple procedure for such a purpose that comes with extreme scalability and statistical guarantees.]

8. Lv, J. and Liu, J. S. (2014). Model selection principles in misspecified models. *Journal of the Royal Statistical Society Series B* **76**, 141–167.

[There has been a long debate on whether AIC or BIC principles may dominate one another for model selection (in correctly specified models). It is well-known that “all models are wrong, but some are more useful than others.” How does model misspecification impact model selection? This paper provides some surprising insights into this fundamental question and unveils that both principles can work in harmony through a Bayesian view.]

9. Fan, Y. and Lv, J. (2013). Asymptotic equivalence of regularization methods in thresholded parameter space. *Journal of the American Statistical Association* **108**, 1044–1061.

[There has been a long debate on whether convex or nonconvex regularization methods may dominate one another. What if both classes of methods can be close to each other when viewed from a new angle? This paper unveils some surprising insights of a small-world phenomenon into this question.]

10. Lv, J. (2013). Impacts of high dimensionality in finite samples. *The Annals of Statistics* **41**, 2236–2262.

[What are the fundamental impacts of high dimensionality in finite samples? This paper provides both a probabilistic view and a nonprobabilistic (geometric) view that are in harmony.]

11. Fan, J. and Lv, J. (2008). Sure independence screening for ultrahigh dimensional feature space (with discussion). *Journal of the Royal Statistical Society Series B* **70**, 849–911.

[Independence learning has long been applied widely and routinely when the scale of the data set becomes excessively large. What are the theoretical foundations for such a class of methods? This paper provides some surprising insights into this question and initiates a new line of statistical thinking on large-scale statistical learning.]

12. Fan, J., Fan, Y. and Lv, J. (2008). High dimensional covariance matrix estimation using a factor model. *Journal of Econometrics* **147**, 186–197.

[The simplest framework of low-rank plus sparse structure on the covariance matrix is induced by the use

of a factor model. What are the fundamental differences between large covariance matrix estimation and large precision matrix estimation in such a context? This paper provides some surprising insights into this question.]

Manuscripts

1. Uematsu, Y., Fan, Y., Chen, K., Lv, J. and Lin, W. (2018). SOFAR: large-scale association network learning. *Manuscript*.
2. Fan, Y., Demirkaya, E. and Lv, J. (2018). Nonuniformity of p-values can occur early in diverging dimensions. *Manuscript*.
3. Zheng, Z., Bahadori, M. T., Liu, Y. and Lv, J. (2018). Scalable interpretable multi-response regression via SEED. *Manuscript*.
4. Fan, Y., Lv, J. and Wang, J. (2018). DNN: a two-scale distributional tale of heterogeneous treatment effect inference. *Manuscript*.
5. Fan, Y., Lv, J., Sharifvaghefi, M. and Uematsu, Y. (2018). IPAD: stable interpretable forecasting with knockoffs inference. *Manuscript*.
6. Mojumder, P., Huang, N., Sun, T., Lv, J. and Golden, J. M. (2018). Not registered? Please sign-up now: a randomized field experiment on the timing of registration request. *Manuscript*.
7. Zheng, Z., Lv, J. and Lin, W. (2018). Nonsparse learning with latent variables. *Manuscript*.
8. Demirkaya, E., Feng, Y., Basu, P. and Lv, J. (2018). Large-scale model selection with misspecification. *Manuscript*.
9. Wu, H., Fan, Y. and Lv, J. (2018). Some statistical insights into deep learning. *Manuscript*.

Publications

1. Candès, E. J., Fan, Y., Janson, L. and Lv, J. (2018). Panning for gold: ‘model-X’ knockoffs for high dimensional controlled variable selection. *Journal of the Royal Statistical Society Series B* **80**, 551–577.
2. Fan, J. and Lv, J. (2018). Sure independence screening (invited review article). *Wiley StatsRef: Statistics Reference Online*.
3. Lu, Y., Fan, Y., Lv, J. and Noble, W. S. (2018). DeepPINK: reproducible feature selection in deep neural networks. *Advances in Neural Information Processing Systems (NeurIPS 2018)*.
4. Fan, Y., Demirkaya, E., Li, G. and Lv, J. (2018). RANK: large-scale inference with graphical nonlinear knockoffs. *Journal of the American Statistical Association*, to appear.
5. Ren, Z., Kang, Y., Fan, Y. and Lv, J. (2018). Tuning-free heterogeneous inference in massive networks. *Journal of the American Statistical Association*, to appear.
6. Kong, Y., Li, D., Fan, Y. and Lv, J. (2017). Interaction pursuit in high-dimensional multi-response regression via distance correlation. *The Annals of Statistics* **45**, 897–922.
7. Demirkaya, E. and Lv, J. (2017). Discussion of “Random-projection ensemble classification.” *Journal of the Royal Statistical Society Series B* **79**, 1008–1009.
8. Lu, Y., Lv, J., Fuhrman, J. A. and Sun, F. (2017). Towards enhanced and interpretable clustering/classification in integrative genomics. *Nucleic Acids Research* **45**, e169.
9. Fan, Y. and Lv, J. (2016). Innovated scalable efficient estimation in ultra-large Gaussian graphical models.

The Annals of Statistics **44**, 2098–2126.

10. Kong, Y., Zheng, Z. and Lv, J. (2016). The constrained Dantzig selector with enhanced consistency. *Journal of Machine Learning Research* **17**, 1–22.
11. Zhang, H., Zheng, Y., Zhang, Z., Gao, T., Joyce, B., Yoon, G., Zhang, W., Schwartz, J., Just, A., Colicino, E., Vokonas, P., Zhao, L., Lv, J., Baccarelli, A., Hou, L. and Liu, L. (2016). Estimating and testing high-dimensional mediation effects in epigenetic studies. *Bioinformatics* **32**, 3150–3154.
12. Kim, S., Ogawa, K., Lv, J., Schweighofer, N. and Imamizu, H. (2015). Neural substrates related to motor memory with multiple timescales in sensorimotor adaptation. *PLOS Biology* **13**, e1002312.
13. Lv, J. and Liu, J. S. (2014). Model selection principles in misspecified models. *Journal of the Royal Statistical Society Series B* **76**, 141–167.
14. Fan, Y. and Lv, J. (2014). Asymptotic properties for combined L_1 and concave regularization. *Biometrika* **101**, 57–70.
15. Zheng, Z., Fan, Y. and Lv, J. (2014). High dimensional thresholded regression and shrinkage effect. *Journal of the Royal Statistical Society Series B* **76**, 627–649.
16. Lv, J. and Zheng, Z. (2014). Discussion: A significance test for the Lasso. *The Annals of Statistics* **42**, 493–500.
17. Lv, J. (2013). Impacts of high dimensionality in finite samples. *The Annals of Statistics* **41**, 2236–2262.
18. Fan, Y. and Lv, J. (2013). Asymptotic equivalence of regularization methods in thresholded parameter space. *Journal of the American Statistical Association* **108**, 1044–1061.
19. Lin, W. and Lv, J. (2013). High-dimensional sparse additive hazards regression. *Journal of the American Statistical Association* **108**, 247–264.
20. Fan, J. and Lv, J. (2011). Nonconcave penalized likelihood with NP-dimensionality. *IEEE Transactions on Information Theory* **57**, 5467–5484.
21. Fan, J., Lv, J. and Qi, L. (2011). Sparse high-dimensional models in economics (invited review article). *Annual Review of Economics* **3**, 291–317.
22. Fan, J. and Lv, J. (2010). A selective overview of variable selection in high dimensional feature space (invited review article). *Statistica Sinica* **20**, 101–148.
23. Fan, J. and Lv, J. (2010). Comments on: ℓ_1 -penalization for mixture regression models. *TEST* **19**, 264–269.
24. Lv, J. and Fan, Y. (2009). A unified approach to model selection and sparse recovery using regularized least squares. *The Annals of Statistics* **37**, 3498–3528.
25. James, G., Radchenko, P. and Lv, J. (2009). DASSO: connections between the Dantzig selector and Lasso. *Journal of the Royal Statistical Society Series B* **71**, 127–142.
26. Fan, J. and Lv, J. (2008). Sure independence screening for ultrahigh dimensional feature space (with discussion). *Journal of the Royal Statistical Society Series B* **70**, 849–911.
27. Fan, J. and Lv, J. (2008). Rejoinder: Sure independence screening for ultrahigh dimensional feature space. *Journal of the Royal Statistical Society Series B* **70**, 905–908.
28. Fan, J., Fan, Y. and Lv, J. (2008). High dimensional covariance matrix estimation using a factor model. *Journal of Econometrics* **147**, 186–197.
29. Cai, T. and Lv, J. (2007). Discussion: The Dantzig selector: statistical estimation when p is much larger than n . *The Annals of Statistics* **35**, 2365–2369.

30. Fan, J., Fan, Y. and Lv, J. (2007). Aggregation of nonparametric estimators for volatility matrix. *Journal of Financial Econometrics* **5**, 321–357.

Earlier Publications

1. Lv, J. (2005). Compact space-like hypersurfaces in de Sitter space. *International Journal of Mathematics and Mathematical Sciences*, 2053–2069.
2. Xu, S. and Lv, J. (2003). The dilatation invariant in the homotopy of spheres. *International Journal of Mathematics and Mathematical Sciences*, 119–124.
3. Xu, S. and Lv, J. (2002). Curvature and Betti numbers. *Mathematica Applicata* **15**, 57–61.
4. Lv, J., Ma, X., Cao, F. and Tao, D. (2001). The mathematical models on the classification of the DNA sequences (in Chinese). *Mathematics in Practice and Theory* **31**, 46–53.
5. Lv, J. (2000). Line integrals of geodesic curvature of curves on revolution surfaces (in Chinese). *Waming (USTC)* **55**, 17–22.
6. Lv, J. (2000). The generalization of a theorem in real analysis and its application (in Chinese). *Waming (USTC)* **55**, 23–26.

Keynote Talk

2017/11 The Annual ASA Utah Chapter Meeting, Salt Lake City, UT

Invited Talks

2018/12 Department of Statistics, University of California, Riverside, Riverside, CA
 2018/11 Department of Statistics, University of Chicago, Chicago, IL
 2018/11 Department of Economics, University of California, Los Angeles, Los Angeles, CA
 2018/11 The 9th Western Conference on Mathematical Finance (WCMF), University of Southern California, Los Angeles, CA
 2018/11 Department of Statistics, Harvard University, Cambridge, MA
 2018/10 Cornell Tech, New York, NY
 2018/08 Department of Preventive Medicine, Keck School of Medicine, University of Southern California, Los Angeles, CA
 2018/07 School of Statistics and Mathematics, Shanghai Lixin University of Accounting and Finance, Shanghai, China
 2018/07 School of Mathematics and Statistics, Wuhan University, Wuhan, China
 2018/07 Britton Chance Center for Biomedical Photonics, Wuhan National Laboratory for Opto-electronics, Huazhong University of Science and Technology, Wuhan, China
 2018/07 The 2018 Workshop on Computational Strategies for Large-Scale Statistical Data Analysis, International Centre for Mathematical Sciences, Edinburgh, UK
 2018/06 Workshop on Future Challenges in Statistical Scalability, Isaac Newton Institute, Cambridge, UK
 2018/06 The 2018 International Conference on Econometrics and Statistics, Hong Kong, China
 2018/06 School of Statistics and Management, Shanghai University of Finance and Economics, Shanghai, China

2018/06 Department of Statistics and Finance, The School of Management, University of Science and Technology of China, Hefei, China

2018/03 The 2018 Marshall Research Fair, Marshall School of Business, University of Southern California, Los Angeles, CA

2018/02 Department of Mathematics, Tulane University, New Orleans, LA

2017/11 The Annual ASA Utah Chapter Meeting, Salt Lake City, UT

2017/10 The INFORMS Annual Meeting, Houston, TX

2017/09 Gatsby Computational Neuroscience Unit, University College London, London, UK

2017/06 The 2017 Annual ISMS Marketing Science Conference, University of Southern California, Los Angeles, CA

2017/06 Department of Management Sciences, The College of Business, City University of Hong Kong, Hong Kong, China

2017/06 Department of Mathematics, The Hong Kong Baptist University, Hong Kong, China

2017/05 Department of Information Systems, Business Statistics and Operations Management, HKUST Business School, Hong Kong University of Science and Technology, Hong Kong, China

2017/05 Department of Statistics, The Chinese University of Hong Kong, Hong Kong, China

2017/05 Conference on Nonconvex Statistical Learning, University of Southern California, Los Angeles, CA

2017/05 Department of Statistics, University of California, Los Angeles, Los Angeles, CA

2017/02 The 2017 Probabilistic Graphical Model Workshop: Structure, Sparsity and High-Dimensionality, Institute of Statistical Mathematics, Tokyo, Japan

2016/10 Conference on Big Data and Its Application to Economics, USC-INET Institute, University of Southern California, Los Angeles, CA

2016/10 The 2016 Conference on Latent Variables, University of South Carolina, Columbia, SC

2016/09 USC Machine Learning Center Opening Symposium, University of Southern California, Los Angeles, CA

2016/04 Department of Preventive Medicine, Feinberg School of Medicine, Northwestern University, Chicago, IL

2016/03 Department of Statistics, University of California, Davis, Davis, CA

2016/03 The 2016 ENAR Spring Meeting, Austin, TX

2015/12 Department of Statistics, Stanford University, Stanford, CA

2015/11 Neyman Seminar, Department of Statistics, University of California, Berkeley, Berkeley, CA

2015/11 Biostatistics Seminar, School of Public Health, University of California, Berkeley, Berkeley, CA

2015/10 Stanford Biostatistics Workshop, School of Medicine, Stanford University, Stanford, CA

2015/09 Candès Discussion Group, Department of Statistics, Stanford University, Stanford, CA

2015/09 Statistical Laboratory, Department of Pure Mathematics and Mathematical Statistics, University of Cambridge, Cambridge, UK

2015/09 Department of Mathematics, University of York, York, UK

2015/07 School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore

2015/07 School of Statistics and Management, Shanghai University of Finance and Economics, Shanghai, China

2015/07 The 2015 IMS-China International Conference on Statistics and Probability, Kunming, China

2015/06 The 10th International Conference on Frontiers of Statistics, Beijing, China

2015/04 Department of Statistics, University of Wisconsin-Madison, Madison, WI

2014/11 USC-INET Institute, Department of Economics, University of Southern California, Los Angeles, CA

2014/10 Department of Statistics, Fox School of Business and Management, Temple University, Philadelphia, PA

2014/08 Joint Statistical Meetings, Boston, MA

2014/07 Joint Meeting between the IMS and the Australian Statistical Conference, Sydney, Australia

2014/06 The 3rd Institute of Mathematical Statistics Asia Pacific Rim Meetings, Taipei, Taiwan

2014/06 The 2014 WNAR/IMS Meeting, Honolulu, HI

2014/05 The 42nd Annual Meeting of the Statistical Society of Canada, Toronto, Canada

2014/05 Workshop on Advances in Probability, Statistics and Econometrics, National University of Singapore, Singapore

2014/02 Department of Mathematics, University of Southern California, Los Angeles, CA

2014/01 High Dimensional Data and Computational Genomics Seminar, Michigan State University, East Lansing, MI

2013/11 Division of Statistics and Scientific Computation, University of Texas at Austin, Austin, TX

2013/06 The 2013 Spring Research Conference on Statistics in Industry and Technology, University of California, Los Angeles, Los Angeles, CA

2013/06 International Chinese Statistical Association Applied Statistics Symposium, Bethesda, MD

2013/05 Department of Statistics, Kansas State University, Manhattan, KS

2013/03 The 2013 Eastern North American Region Spring Meeting, Orlando, FL

2012/10 Department of Statistics and Applied Probability, University of California, Santa Barbara, Santa Barbara, CA

2012/08 Workshop on Meeting the Challenges of High Dimension: Statistical Methodology, Theory and Applications, National University of Singapore, Singapore

2012/08 Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing, China (two invited talks)

2012/06 International Chinese Statistical Association Applied Statistics Symposium, Boston, MA

2012/06 International Workshop on Perspectives on High-dimensional Data Analysis II, Montreal, Canada

2012/05 Department of Statistics, University of California, Riverside, Riverside, CA

2012/03 Department of Mathematics and Statistics, McGill University, Montreal, Canada

2011/12 The 2011 International Taipei Statistical Symposium and the 7th Conference of the Asia Regional Section of the IASC, Taipei, Taiwan

2011/12 Department of Preventive Medicine, Keck School of Medicine, University of Southern California, Los Angeles, CA

2011/08 Joint Statistical Meetings, Miami Beach, FL

2011/07 The First Wuxi International Statistics Forum, Wuxi, China

2011/07 The Research Symposium on Frontiers of Statistics, Hefei, China

2011/07 IMS-China International Conference on Statistics and Probability, Xi'an, China

2011/06 International Chinese Statistical Association Applied Statistics Symposium, New York, NY

2011/06 International Workshop on Perspectives on High-dimensional Data Analysis, Toronto, Canada

2011/04 Department of Statistics, Columbia University, New York, NY

2011/03 Stewart School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, GA

2010/12 Department of Statistics, University of Illinois at Urbana-Champaign, Champaign, IL

2010/11 Department of Statistics, Purdue University, West Lafayette, IN

2010/07 Department of Statistics and Applied Probability, National University of Singapore, Singapore

2010/07 The 2010 International Conference on Statistics and Society, Beijing, China

2010/06 International Chinese Statistical Association Applied Statistics Symposium, Indianapolis, IN

2010/04 School of Statistics, University of Minnesota, Minneapolis, MN

2010/04 Department of Statistics, University of California, Los Angeles, Los Angeles, CA

2009/12 Department of Economics, University of California, Riverside, Riverside, CA

2009/10 The INFORMS Annual Meeting, San Diego, CA

2009/10 Department of Mathematics and Statistics, San Diego State University, San Diego, CA

2009/08 Joint Statistical Meetings, Washington, DC

2009/07 The 2009 International Conference on Financial Statistics and Financial Econometrics, Chengdu, China

2009/06 Institute of Mathematical Statistics Asia Pacific Rim Meetings, Seoul, Korea

2009/06 The 2009 WNAR/IMS Meeting, Portland, OR

2009/04 Department of Mathematics, University of Southern California, Los Angeles, CA

2009/04 Department of Biological Sciences, University of Southern California, Los Angeles, CA

2008/10 Department of Biostatistics, University of California, Los Angeles, Los Angeles, CA

2008/01 North American Winter Meeting of the Econometric Society, New Orleans, LA

2007/11 Radcliffe Institute for Advanced Study, Harvard University, Cambridge, MA

2007/07 Joint Statistical Meetings, Salt Lake City, UT

2007/02 Department of Statistics and Probability, Michigan State University, East Lansing, MI

2007/02 Department of Statistics, Harvard University, Cambridge, MA
2007/02 Department of Statistics, The Wharton School, University of Pennsylvania, Philadelphia, PA
2007/02 MIT Sloan School of Management, Massachusetts Institute of Technology, Boston, MA
2007/02 Department of Applied Mathematics, University of Colorado, Boulder, CO
2007/02 Department of Statistics, Rutgers University, New Brunswick, NJ
2007/01 Information and Operations Management Department, Marshall School of Business, University of Southern California, Los Angeles, CA
2007/01 Department of Statistics, Pennsylvania State University, University Park, PA
2006/11 The MIT Econometrics Lunch Seminar, Massachusetts Institute of Technology, Boston, MA
2006/10 SAMSI, Research Triangle Park, NC
2006/08 Joint Statistical Meetings, Seattle, WA

Professional Memberships

- American Statistical Association
- Institute of Mathematical Statistics
- International Chinese Statistical Association
- Royal Statistical Society