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 Marshall School of Business
 University of Southern California
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Academic Positions

- 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
- 3/2014 - Present Associate Professor, 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
- 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 [*Committee Members:* Jianqing Fan (Chair), Erhan Çinlar, Ingrid Daubechies and Weinan E]
- 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

- 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 (\$400,000)
- 2008 Journal of the Royal Statistical Society Series B Discussion Paper

2008 - Present	Associate Editors of <i>The Annals of Statistics</i> (2013 - Present) and <i>Statistica Sinica</i> (2008 - 2016), and Guest Associate Editor of <i>Journal of the American Statistical Association</i> (2012)
2017 - 2018	Lord Foundation Grant, “Scalable Heterogeneity Pursuit via Random Projection Ensemble,” Co-PI (\$30,625)
2016 - 2021	Simons Foundation Collaboration Grant for Mathematicians, “High-Dimensional Sparse Inference with Scalability,” PI (\$35,000)
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 (\$80,270)
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 (\$19,449)
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

- Deep learning
- Personalized medicine and choices
- Selective inference and false discovery rate control
- Networks
- High-dimensional statistics
- Big data problems
- Statistical machine learning
- Neuroscience and business applications
- Financial econometrics

Representative Publications

1. Candès, E. J., Fan, Y., Janson, L. and Lv, J. (2016). Panning for gold: Model-free knockoffs for high-dimensional controlled variable selection. *Manuscript*.

[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 open question.]

2. Ren, Z., Kang, Y., Fan, Y. and Lv, J. (2016). Tuning-free heterogeneity pursuit in massive networks. *Manuscript*.

[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.]

3. Fan, Y., Kong, Y., Li, D. and Lv, J. (2016). Interaction pursuit with feature screening and selection. *Manuscript*.

[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.]

4. Chen, K., Uematsu, Y., Lin, W., Fan, Y. and Lv, J. (2016). Sparse orthogonal factor regression. *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.]

5. 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.]

6. 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.]

7. 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.]

8. 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.]

9. 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.]

10. 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.]

Highly Cited Papers

1. Fan, J. and Lv, J. (2011). Nonconcave penalized likelihood with NP-dimensionality. *IEEE Transactions on Information Theory* **57**, 5467–5484.
2. 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.
3. 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.
4. 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.
5. 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.
6. Fan, J., Fan, Y. and Lv, J. (2008). High dimensional covariance matrix estimation using a factor model. *Journal of Econometrics* **147**, 186–197.

Manuscripts [* indicates a supervised Ph.D. student or postdoctoral scholar]

1. Fan, Y., Kong, Y.*, Li, D.* and Lv, J. (2016). Interaction pursuit with feature screening and selection. *Manuscript*.
2. Chen, K., Uematsu, Y.*, Lin, W., Fan, Y. and Lv, J. (2016). Sparse orthogonal factor regression. *Manuscript*.

3. Candès, E. J., Fan, Y., Janson, L. and Lv, J. (2016). Panning for gold: Model-free knockoffs for high-dimensional controlled variable selection. *Manuscript*.
4. Ren, Z., Kang, Y.*, Fan, Y. and Lv, J. (2016). Tuning-free heterogeneity pursuit in massive networks. *Manuscript*.
5. Bahadori, M. T., Zheng, Z., Liu, Y. and Lv, J. (2016). Scalable interpretable multi-response regression via SEED. *Manuscript*.
6. Demirkaya, E.*, Basu, P.*, Feng, Y. and Lv, J. (2016). Ultra-high dimensional robust model selection. *Manuscript*.
7. New manuscripts in preparation.

Publications [1031 ISI Web of Science/2353 Google Scholar citations as of November 2016 since 2007; * indicates a supervised Ph.D. student or postdoctoral scholar]

1. Fan, Y. and Lv, J. (2016). Innovated scalable efficient estimation in ultra-large Gaussian graphical models. *The Annals of Statistics* **44**, 2098–2126.
2. Kong, Y.*, Zheng, Z.* and Lv, J. (2016). The constrained Dantzig selector with enhanced consistency. *Journal of Machine Learning Research* **17**, 1–22.
3. Kong, Y.*, Li, D.*, Fan, Y. and Lv, J. (2016). Interaction pursuit in high-dimensional multi-response regression via distance correlation. *The Annals of Statistics*, to appear.
4. 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*, to appear.
5. 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.
6. Lv, J. and Liu, J. S. (2014). Model selection principles in misspecified models. *Journal of the Royal Statistical Society Series B* **76**, 141–167.
7. Fan, Y. and Lv, J. (2014). Asymptotic properties for combined L_1 and concave regularization. *Biometrika* **101**, 57–70.
8. 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.
9. Lv, J. and Zheng, Z.* (2014). Discussion: A significance test for the Lasso. *The Annals of Statistics* **42**, 493–500.
10. Lv, J. (2013). Impacts of high dimensionality in finite samples. *The Annals of Statistics* **41**, 2236–2262.
11. Fan, Y. and Lv, J. (2013). Asymptotic equivalence of regularization methods in thresholded parameter space. *Journal of the American Statistical Association* **108**, 1044–1061.
12. Lin, W.* and Lv, J. (2013). High-dimensional sparse additive hazards regression. *Journal of the American Statistical Association* **108**, 247–264.
13. Fan, J. and Lv, J. (2011). Nonconcave penalized likelihood with NP-dimensionality. *IEEE Transactions on Information Theory* **57**, 5467–5484.

14. Fan, J., Lv, J. and Qi, L. (2011). Sparse high-dimensional models in economics (invited review article). *Annual Review of Economics* **3**, 291–317.
15. 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.
16. Fan, J. and Lv, J. (2010). Comments on: ℓ_1 -penalization for mixture regression models. *TEST* **19**, 264–269.
17. 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.
18. 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.
19. 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.
20. 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.
21. Fan, J., Fan, Y. and Lv, J. (2008). High dimensional covariance matrix estimation using a factor model. *Journal of Econometrics* **147**, 186–197.
22. 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.
23. 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. [Top 2 paper in 2000 China Mathematical Contest in Modeling]
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.

Internal Services

Department, School and University

- | | |
|----------------|--|
| 2016 - Present | Mentor of Assistant Professor Jason Lee, DSO |
| 2016 - Present | USC Marshall M.S. in Business Analytics Admissions Committee |

2014 - Present	DSO Annual Performance Review (APR) Committee
2013 - Present	DSO Statistics Ph.D. Admissions Committee
2015 - Present	Mentor of Assistant Professor Adel Javanmard, DSO
2016	PEG Committee Chair for Fourth-Year Review of Assistant Professor Gourab Mukherjee, DSO
2014 - 2015	USC's Research Committee (<i>Invited by Vice President for Research</i>)
2014 - 2015	USC Marshall Committee on Doctoral Program
2013 - 2015	DSO Statistics Search Committee for faculty hiring
2013 - 2015	USC Marshall BUAD 310 Core Course Coordinator
2013 - 2015	DSO Statistics Ph.D. Program Coordinator
2016, 2015	Served on the Ph.D. dissertation committee for USC graduate student Xiaojing Xing, Mathematics
2016	Served on the Ph.D. dissertation committee for USC graduate student Hilmi Egilmez, Electrical Engineering
2016	Served on the Ph.D. dissertation committee for USC graduate student Jian Wang, Mathematics
2016, 2013	Served on the Ph.D. dissertation committee for USC graduate student Courtney Paulson, Business Statistics
2016, 2015	Served on the Ph.D. dissertation committee for USC graduate student Weisheng Xie, Mathematics
2016	Served on the Ph.D. dissertation committee for USC graduate student Cong Wu, Mathematics
2016	Served on the Ph.D. dissertation committee for USC graduate student Dehua Cheng, Computer Science
2016	Served on the Ph.D. dissertation committee for USC graduate student Chinmoy Bhattacharjee, Mathematics
2016, 2014	Served as chair of the Ph.D. dissertation committee for USC graduate student Yinfei Kong, Biostatistics
2016, 2013	Served on the Ph.D. dissertation committee for USC graduate student Pallavi Basu, Business Statistics
2015	Served on the Ph.D. dissertation committee for USC graduate student Yongjian Kang, Mathematics
2015, 2014	Served as chair of the Ph.D. dissertation committee for USC graduate student Zemin Zheng, Mathematics
2015, 2014	Served on the Ph.D. dissertation committee for USC graduate student Wayne Zhang, Marketing
2015, 2013	Served on the Ph.D. dissertation committee for USC graduate student Mohammad Taha Bahadori, Electrical Engineering
2015	Served on the Ph.D. dissertation committee for USC graduate student Jianqi Zhang, Biostatistics
2014	PEG Committee Chair for Tenure of Assistant Professor Wen Sun, DSO

2014	PEG Committee Member for Tenure of Assistant Professor Scott Joslin, Finance and Business Economics
2014	DSO Statistics Curriculum Development Committee for New General Education (GE) Program
2014	Served on the Ph.D. dissertation committee for USC graduate student Junbo Wang, Finance
2014, 2012	Served on the Ph.D. dissertation committee for USC graduate student Ashish Vaswani, Computer Science
2014	Served on the Ph.D. dissertation committee for USC graduate student Jie Ren, Biostatistics
2013	Organizer of Summer 2013 IOM Ph.D. Research Workshop on Networks
2013	Invited panelist for USC's Marshall NSF CAREER Award Meeting
2013	Served on the Ph.D. dissertation committee for USC graduate student Zohreh Baharvand Irannia, Computational Biology and Bioinformatics
2013	Served on the Ph.D. dissertation committee for USC graduate student Sungshin Kim, Neuroscience
2012	Served on the Ph.D. dissertation committee for USC graduate student Xinghao Qiao, Business Statistics
2012	Served on the Ph.D. dissertation committee for USC graduate student Lijuan Xu, Industrial and Systems Engineering
2011	Served on the Ph.D. dissertation committee for USC graduate student Wei Lin, Mathematics
2011	Served on the Ph.D. dissertation committee for USC graduate student Shuyang Sheng, Economics
2011	Served on the Ph.D. dissertation committee for USC graduate student Martin Weidner, Economics
2011	Invited panelist for USC's Marshall Faculty Mentoring event "Working Toward Mid-Tenure"
2010	Invited panelist for the NSF CAREER workshop organized by USC's Vice Provost for Research Advancement
2010 - 2011, 2007 - 2008	Chair and organizer of IOM department statistics seminar, Marshall School of Business
2009	Proposal review panelist for USC's Zumberge Individual Award
2009, 2007	Served on the Ph.D. dissertation committee for USC graduate student Siva Tian, Quantitative Psychology

Graduate Students and Postdoctoral Scholar Supervision

2017 - Present	Co-advisor of Dr. Timothy Cannings, Postdoctoral Scholar
2017 - Present	Co-advisor of Dr. Xiao Han, Postdoctoral Scholar
2016 - Present	Co-advisor of Mahrad Sharifvaghefi, USC graduate student in Economics
2016 - Present	Advisor of Hao Wu, USC graduate student in Mathematics

2016 - Present	Advisor of Dr. Gaorong Li, Postdoctoral Scholar
2015 - Present	Advisor of Emre Demirkaya, USC graduate student in Mathematics
2015 - Present	Advisor of Dr. Yoshimasa Uematsu, Postdoctoral Scholar
2011 - 2016	Advisor of Yinfei Kong, USC graduate student in Biostatistics [Now an Assistant Professor at Mihaylo College of Business and Economics of California State University, Fullerton]
2013 - 2016	Co-advisor of Yongjian Kang, USC graduate student in Mathematics [Now at Google]
2012 - 2016	Co-advisor of Pallavi Basu, USC Marshall graduate student in Business Statistics
2012 - 2015	Advisor of Dr. Daoji Li, Postdoctoral Scholar [Now an Assistant Professor at University of Central Florida]
2010 - 2015	Advisor of Zemin Zheng, USC graduate student in Mathematics [Now an Associate Professor at School of Management of USTC]
2010 - 2011	Co-advisor of Wei Lin, USC graduate student in Mathematics [Now an Assistant Professor at Peking University]

External (Professional) Services

2013 - Present	Associate Editor of The Annals of Statistics
2008 - 2016	Associate Editor of Statistica Sinica, a journal of the International Chinese Statistical Association
2012	Guest Associate Editor of Journal of the American Statistical Association
2007 - Present	Reviewer for <i>The Annals of Statistics</i> ; <i>Journal of the American Statistical Association - Theory and Methods</i> ; <i>Journal of the Royal Statistical Society Series B</i> ; <i>Biometrika</i> ; <i>Statistica Sinica</i> ; <i>Journal of Business and Economic Statistics</i> ; <i>Journal of Multivariate Analysis</i> ; <i>Statistics and Its Interface</i> ; <i>Journal of Machine Learning Research</i> ; <i>Statistics and Probability Letters</i> ; <i>Econometric Reviews</i> ; <i>Statistical Analysis and Data Mining</i> ; <i>Journal of the American Statistical Association - Applications and Case Studies</i> ; <i>Statistics in Medicine</i> ; <i>Bioinformatics</i> ; <i>Communications in Statistics - Theory and Methods</i> ; <i>The Econometrics Journal</i> ; <i>Journal of Empirical Finance</i> ; <i>The American Statistician</i> ; <i>Biometrics</i> ; <i>Computational Statistics and Data Analysis</i> ; <i>Journal of Statistical Planning and Inference</i> ; <i>Chinese Annals of Mathematics</i> ; <i>IEEE Transactions on Image Processing</i> ; <i>Journal of Computational and Graphical Statistics</i> ; <i>Annual Review of Economics</i> ; <i>Electronic Journal of Statistics</i> ; <i>Australian & New Zealand Journal of Statistics</i>
2017	Invited session organizer at the 2017 IMS-China International Conference on Statistics and Probability
2016	Invited reviewer for the Research Grants Council (RGC) of Hong Kong Grant Proposal
2015	Invited letter writer for tenure of a faculty in the Lundquist College of Business at the University of Oregon
2015	Invited letter writer for tenure of a faculty in the School of Economics and Management at Tsinghua University
2015	Invited reviewer for faculty hiring in the Institute of Statistical Science, Academia Sinica

- 2014 Invited reviewer for the NSF Grant Proposal
- 2014 Invited session organizer and chair at the 2014 Joint Meeting between the IMS and the Australian Statistical Conference
- 2014 Invited session organizer at the 2014 ISBIS/SLDM Meeting
- 2014 Invited session chair at the 3rd Institute of Mathematical Statistics Asia Pacific Rim Meetings, Taipei, Taiwan
- 2013 - 2014 Student paper competition committee for the 2014 ICASA/KISS Applied Statistics Symposium
- 2013 Invited reviewer for abstracts for the 2014 Joint Meeting between the IMS and the Australian Statistical Conference
- 2013 Served as Ph.D. dissertation examiner for Tianyi Zhou, University of Technology, Sydney, Australia, Computer Science
- 2013 Invited reviewer for the National Security Agency (NSA) Mathematical Sciences Grant Proposal
- 2012 Invited reviewer for the NSF Grant Proposal
- 2012 Invited session organizer at the 2012 International Chinese Statistical Association Applied Statistics Symposium
- 2012 Invited Member of International Examination Committee for the 2012 Shing-Tung Yau College Student Mathematics Contests
- 2011 Invited session organizer and chair at the 2011 International Chinese Statistical Association Applied Statistics Symposium
- 2011 Invited session organizer at the 2011 WNAR/IMS Meeting
- 2011 Invited reviewer for the National Security Agency (NSA) Mathematical Sciences Grant Proposal
- 2011 Invited session chair at the International Workshop on Perspectives on High-dimensional Data Analysis, Toronto, Canada
- 2011 Session chair at the 2011 Joint Statistical Meetings
- 2010 Invited session organizer at the 2010 International Conference on Statistics and Society
- 2010 Served as Ph.D. dissertation examiner for Hugh R. Miller, University of Melbourne, Australia, Statistics
- 2009 - 2010 Reviewer for the 2010 International Conference on Artificial Intelligence and Statistics
- 2009 Invited session organizer and chair at the 2009 Joint Statistical Meetings
- 2009 Invited session chair at the 2009 IMS-China International Conference on Statistics and Probability
- 2009 Session chair at the 2009 Institute of Mathematical Statistics Asia Pacific Rim Meetings
- 2008 Invited session chair at the 2008 Joint Statistical Meetings
- 2007 Session organizer and chair at the 2007 Joint Statistical Meetings

Invited Talks [89 in total]

2018/02 Workshop on Meeting the Statistical Challenges in High Dimensional Data and Complex Networks, National University of Singapore, Singapore

2018/01 Workshop on Theoretical and Algorithmic Underpinnings of Big Data, Isaac Newton Institute, Cambridge, UK

2017/06 The 2017 IMS-China International Conference on Statistics and Probability, Nanning, China

2017/06 The 2017 International Conference on Econometrics and Statistics, Hong Kong University of Science and Technology, Hong Kong, China

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

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

2017/02 The 2017 Workshop on Probabilistic Graphical Model Learning, 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, Boston, 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, Boston, 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

Teaching Experience

Spring 2012 - Present DSO 607 (formerly DSO 599, Special Topics): High-Dimensional Statistics and Big Data Problems , Marshall School of Business, University of Southern California [New Ph.D. course]

Fall 2007 - Present BUAD 310: Applied Business Statistics, Marshall School of Business, University of Southern California

Summer 2012 Instructor of Summer Short Course on High-Dimensional Variable Selection, Tsinghua University, China

Fall 2004 - Spring 2006 Teaching Assistant, Princeton University
Spring 2007

Spring 2002 Instructor of Multivariable Calculus, University of Science and Technology of China

2002 Advisor of three USTC undergraduates in 2002 China Mathematical Contest in Modeling

Fall 2001 - Spring 2003 Teaching Assistant, University of Science and Technology of China

Professional Memberships

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