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Assistant Professor  
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### Academic Positions

7/2007 - Present      Assistant Professor, Information and Operations Management 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

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

### Publications and Manuscripts

1. Lv, J. and Liu, J. S. (2010). Model selection principles in misspecified models. *Manuscript*.
2. Fan, J. and Lv, J. (2010). Non-concave penalized likelihood with NP-dimensionality. *Manuscript*.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. Fan, J., Fan, Y. and Lv, J. (2008). High dimensional covariance matrix estimation using a factor model. *Journal of Econometrics* **147**, 186–197.
9. 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.
10. Fan, J., Fan, Y. and Lv, J. (2007). Aggregation of nonparametric estimators for volatility matrix. *Journal of Financial Econometrics* **5**, 321–357.
11. Lv, J. (2007). High dimensional variable selection and covariance matrix estimation. *Ph.D. Dissertation*, Department of Mathematics, Princeton University.
12. Lv, J. (2005). Compact space-like hypersurfaces in de Sitter space. *International Journal of Mathe-*

*matics and Mathematical Sciences*, 2053–2069.

13. Xu, S. and Lv, J. (2003). The dilatation invariant in the homotopy of spheres. *International Journal of Mathematics and Mathematical Sciences*, 119–124.
14. Xu, S. and Lv, J. (2002). Curvature and Betti numbers. *Mathematica Applicata* **15**, 57–61.
15. 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.)
16. Lv, J. (2000). The generalization of a theorem in real analysis and its application (in Chinese). *Waming (USTC)* **55**, 23–26.
17. Lv, J. (2000). Line integrals of geodesic curvature of curves on revolution surfaces (in Chinese). *Waming (USTC)* **55**, 17–22.

### **Grants, Honors and Awards**

2010 - 2015	National Science Foundation (NSF) CAREER Award DMS-0955316, single PI
2008 - 2011	National Science Foundation (NSF) Grant DMS-0806030, single PI
2008 - 2009	2008 Zumberge Individual Award from USC's James H. Zumberge Faculty Research and Innovation Fund, single PI
2009	2009 Dean's Award for Research Excellence (2 out of 120 research faculty at USC's Marshall School of Business)
2009	Invited Talk in a Distinguished Lecture Session on High-Dimensional Data Analysis at the 2009 Institute of Mathematical Statistics Asia Pacific Rim Meetings
Fall 2006	Graduate Fellow at Statistical and Applied Mathematical Sciences Institute (SAMSI)
2003 - 2004	Princeton University Fellowship
2002	Huawei Scholarship
2001	Meritorious Winner in 2001 USA Interdisciplinary Contest in Modeling
2001	Shing-Tung Yau Scholarship
2000	First Prize in 2000 China Mathematical Contest in Modeling
1997 - 2001	USTC Excellent Student Scholarship

### **Professional Services**

2008 - Present	Associate Editor of <i>Statistica Sinica</i>
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>

2011	Invited session organizer at the 2011 International Chinese Statistical Association Applied Statistics Symposium
2010	Invited session organizer at the 2010 International Conference on Statistics and Society
2009 - 2010	Reviewer for the 2010 International Conference on Artificial Intelligence and Statistics
2009	Proposal review panel for USC's Zumberge Individual Award
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
2007 - 2008	Chair of IOM department statistics seminar, Marshall School of Business
2007, 2009	Served on the dissertation committee for USC graduate student Siva Tian, Quantitative Psychology

### Invited Talks

- International Chinese Statistical Association Applied Statistics Symposium, New York City, NY, June 2011
- The 2010 International Conference on Statistics and Society, Beijing, China, July 2010
- International Chinese Statistical Association Applied Statistics Symposium, Indianapolis, IN, June 2010
- School of Statistics, University of Minnesota, Minneapolis, MN, April 2010
- Department of Statistics, University of California, Los Angeles, Los Angeles, CA, April 2010
- Department of Economics, University of California, Riverside, Riverside, CA, December 2009
- The INFORMS Annual Meeting, San Diego, CA, October 2009
- Department of Mathematics and Statistics, San Diego State University, San Diego, CA, October 2009
- Joint Statistical Meetings, Washington, DC, August 2009
- The 2009 International Conference on Financial Statistics and Financial Econometrics, Chengdu, China, July 2009
- Institute of Mathematical Statistics Asia Pacific Rim Meetings, Seoul, Korea, June 2009
- The 2009 WNAR/IMS Meeting, Portland, OR, June 2009
- Department of Mathematics, University of Southern California, Los Angeles, CA, April 2009
- Department of Biological Sciences, University of Southern California, Los Angeles, CA, April 2009
- Department of Biostatistics, University of California, Los Angeles, Los Angeles, CA, October 2008
- North American Winter Meeting of the Econometric Society, New Orleans, LA, January 2008
- Radcliffe Institute for Advanced Study, Harvard University, Boston, MA, November 2007
- Joint Statistical Meetings, Salt Lake City, UT, July 2007
- Department of Statistics and Probability, Michigan State University, East Lansing, MI, February 2007

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

### Research Experience

7/2007 - Present	Assistant Professor, University of Southern California
Fall 2006	Graduate Fellow, Statistical and Applied Mathematical Sciences Institute (SAMSI)
9/2003 - 6/2007	PhD Student, Princeton University
2001	Mathematical modeling on a zebra mussel problem in 2001 USA Interdisciplinary Contest in Modeling
2000	Mathematical modeling for the classification of DNA sequences in 2000 China Mathematical Contest in Model
5/1999 - 7/2003	Undergraduate and Master's Student, University of Science and Technology of China

### Teaching Experience

Fall 2007 - Spring 2010	BUAD 310: Applied Business Statistics, Marshall School of Business, University of Southern California
Fall 04 - Spring 06 Spring 2007	Teaching Assistant, Princeton University
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 01 - Spring 03	Teaching Assistant, University of Science and Technology of China

### Research Interests

- High dimensional statistical inference
- Variable selection and machine learning
- Financial econometrics

- Nonparametric and semiparametric methods

### **Professional Memberships**

- American Statistical Association
- Institute of Mathematical Statistics
- Sigma Xi, The Scientific Research Society