

YEHUA LI

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Position: (Sep, 2006—now) Assistant Professor in Statistics, University of Georgia.

Education:

Ph.D., Statistics. Aug. 2006. Texas A&M University, College Station, TX.

M.S., Statistics. Aug, 2003. Texas A&M University, College Station, TX.

B.S., Applied Math. Jun, 2000. Tsinghua University, Beijing, China.

Experiences:

2006 fall - now Assistant Professor, University of Georgia, Athens, GA.

2001 fall -Jul 2006, Teaching/Research Assistant, Department of Statistics, Texas A&M University.

2000-2001, Teaching Assistant, Department of Mathematics, University of Rochester.

Honors and Awards:

- William S. Connor Award, Texas A&M University, 2006.
- Emanuel Parzen Graduate Research Fellowship, Texas A&M University, 2005.
- Eva L. & Lee H. Smith Graduate Fellowship, Texas A&M University, 2004.
- AUF Fellowship, Texas A&M University, 2003-2004.
- AUF Fellowship, Texas A&M University, 2001-2002.
- Regents' Fellowship, Texas A&M University, 2001-2002.

Professional Membership:

- American Statistical Association.
- The International Biometric Society, East North American Region (ENAR).
- Institute of Mathematical Statistics.
- International Chinese Statistical Association (ICSA)

Grants:

- Dimension reduction, model selection and classification in functional data analysis, **National Science Foundation** (DMS 1105634), Principal Investigator, \$119,999, Jun 1st, 2011- May 31st, 2014.
- Collaborative Research: Regression Problems in Functional Data, **National Science Foundation** (DMS), Principal Investigator, \$100,000, Jun 1st, 2008-May 31st, 2011.

Research Interests:

Nonparametric/Semi-parametric statistical methods; Functional data analysis; Spatial Statistics; Time Series; Bootstrap/Sub-sampling; Large sample theory; Measurement error models; Bayesian methods; MCMC algorithms.

Papers and Manuscripts:

- Guan Y., **Li, Y.*** and Sinha, R.(2011). Cocaine dependence treatment data: methods for measurement error problems with predictors derived from stationary stochastic processes, *Journal of the American Statistical Association*, 106, 480–493. (* The first two authors are joint first authors.)
- **Li, Y.** (2011). Efficient semiparametric regression in longitudinal data with nonparametric covariance estimation, *Biometrika*, 98, 2, 355-370.
- Ye, J., Lazar, N. and **Li, Y.** (2011). Sparse geostatistical analysis in clustering fMRI time series, *Journal of Neuroscience Methods*, Accepted.
- **Li, Y.**, Wang, N. and Carroll, R. J. (2010). Generalized functional linear models with semiparametric single-index interactions, *Journal of the American Statistical Association*, 105, 621-633.
- **Li, Y.** and Hsing, T. (2010). Uniform convergence rates for nonparametric regression and principal component analysis in functional/ longitudinal data, *Annals of Statistics*, 38, 3321-3351.
- **Li, Y.** and Hsing, T.(2010). Deciding the dimension of effective dimension reduction space for functional and high-dimensional data. *Annals of Statistics*, 38, 3028-3062.
- Ye, J., Lazar, N. and **Li, Y.** (2009). Geostatistical analysis in clustering fMRI time series, *Statistics in Medicine*, 28, No.19, 2490-2508.
- **Li, Y.** and Genton, M. (2009). Single-index additive vector time series models. *Scandinavian Journal of Statistics*, 36, 369-388.
- **Li, Y.**, Wang, N, Hong, M, Turner, N., Lupton, J. and Carroll. R. J. (2007). Nonparametric estimation of correlation functions in spatial and longitudinal data, with application to colon carcinogenesis experiments. *Annals of Statistics*, 35, 4, 1608-1643.
- **Li, Y.**, Guolo, A., Hoffman, F. O. and Carroll, R. J. (2007). Shared uncertainty in measurement error models, with application to Nevada test site fallout data. *Biometrics*, 63, 1226-1236.
- **Li, Y.** and Hsing, T. (2007). On the rates of convergence in functional linear regression. *Journal of Multivariate Analysis*, 98, 1782-1804.

Technical reports

- Li, E., **Li, Y.**, Wang, N.-Y. and Wang, N. (2008). Functional latent feature models for data with longitudinal covariate processes, (under revision).
- **Li, Y.** (2007). A note on Hilbertian elliptically contoured distribution. Unpublished manuscript.

Teaching

- STAT8270 Spatial Statistics, UGA.
- STAT 6220, Statistical Method II, UGA.
- STAT6310 Statistics Method I, UGA.
- STAT6210 Statistics Method I, UGA.
- STAT4220 Applied Experimental Design, UGA.
- STAT211, Principle of Statistics, TAMU.
- Multivariate Calculus, University of Rochester.

Invited Colloquium Talks:

- Emory University, Sep 2011.
- School of Industrial and Systems Engineering, Georgia Institute of Technology, Sep 2009.
- College of Computer Science, Jilin University, China, Jun 2009.
- Computational System Biology Laboratory, University of Georgia, Apr 2009.
- Clemson University, Nov 2008.
- University of South Carolina, Oct 2008.
- Emory University, Sep 2007.

- University of Pittsburg, Jan 2006.
- University of Illinois at Chicago, Jan 2006.
- Carnegie Mellon University, Feb 2006.
- Virginia Tech, Feb 2006.
- University of Georgia, Feb 2006.
- University of Chicago, Feb 2006.
- Stanford University, Feb 2006.
- North Carolina State University, Feb 2006.
- University of Pennsylvania, Feb 2006.
- National Institute of Allergy and Infectious Disease, Feb 2006.

Invited Conference Presentations:

- The 2nd Institute of Mathematical Statistics (IMS) Asia Pacific Rim Meeting, Tokyo, Japan, July 2012.
- International Chinese Statistical Association (ICSA) 2011 Applied Statistics Symposium, New York City, June 2011.
- Southern Regional Consul of Statistics (SRCOS) 2011 Summer Research Conference, McCormick, SC, June, 2011.
- 2011 ENAR spring meetings, Miami, FL, March 2011.
- IMS Symposium on New Directions in Asymptotic Theory, UGA, May 2009.
- Southern Regional Consul of Statistics (SRCOS) 2008 Summer Research Conference, Charleston, SC.
- International Chinese Statistical Association (ICSA) 2008 Applied Statistics Symposium, Piscataway, NJ.

Contributed Conference Presentations:

- 2010 ENAR spring meeting, New Orleans, LA, Mar 2010.
- 2009 Joint Statistical Meetings, Washington, DC, Aug 2009.
- 2008 Joint Statistical Meetings, Denver, CO. (Topic contributed)
- 2008 ENAR conference, Crystal City, Virginia.
- 2007 Joint Statistical Meetings, Salt Lake City, UT.
- The Tenth Meeting of New Researcher in Statistics and Probability, Salt Lake City, UT (2007).
- 2006 ENAR, Tampa, FL.
- 2005 Focused Research Group Conference on Nonparametric Models for Complex Biological Data, University of California, Davis.
- 2005 Joint Statistical Meetings, Minneapolis, MN.
- 2004 Joint Statistical Meetings, Toronto, Canada.

Conference Posters:

- Workshop on Future Directions in High-Dimensional Data Analysis, Isaac Newton Institute of Mathematical Sciences, University of Cambridge, UK. (June 2008)

Professional Activities

- Referee for
 - *American Statistician* (1 paper),
 - *Annals of Applied Statistics* (1 paper),
 - *Annals of Statistics* (5 papers),
 - *Bernoulli* (1 paper),

- *Biometrics*(1 paper),
- *Biostatistics* (1 paper),
- *Canadian Journal of Statistics* (1 paper),
- *Communications in Statistics* (1 paper),
- *Electronic Journal of Statistics* (1 paper),
- *Journal of the American Statistical Association* (7 papers),
- *Journal of Multivariate Analysis* (1 paper),
- *Journal of Machine Learning Research* (1 paper),
- *Journal of Nonparametric Statistics* (1 paper),
- *Journal of the Royal Statistical Society, Series B* (3 papers),
- *Journal of Statistical Planning and Inference* (1 paper),
- *Scandinavian Journal of Statistics* (1 paper),
- *Statistics and Probability Letters* (1 paper),
- *Statistica Sinica* (4 papers),
- *Test* (1 paper).

Total reviewed paper to date is 34.

- Proposal review
 - *Pilot Funding for New Research Program, Board of Regents, State of Louisiana, 2008.*
 - *Jeffress Research Grant, Thomas F. and Kate Miller Jeffress Memorial Trust, 2010.*
- Other professional services:
 - Local organizing committee member for the IMS Symposium on New Directions in Asymptotic Theory, UGA, May 2009.
 - Organizer of the invited session on “New Developments in Functional Data Analysis”, 2010 ICSA Applied Statistics Symposium, Indianapolis, IN, Jul, 2010.
 - ASA Nonparametric Student Paper Competition Committee, JSM 2011.

Graduate Committee Served

- **Ph.D. students supervised:** Wenting Fan, Jin Tang (expected in 2013), Yuhang Xu (co-advised with Xiao Song).
- **Ph.D. dissertation committee member:** Yunzhou Wu (Computer Science, 2007), Jien Chen (2008), Jun Ye (2008), Junshan Qiu (2008), Shanbin Liu (2008), Qin Wang (2009). Lin Sun, Chris O’neal, JinAe Lee, Yijie Xue, Cong Feng, Yuan Xue, Nat Kulvanich.
- **MS thesis committee:** Muliang Peng (2011), Jong Min Ra (2011).