

Xu Han

CONTACT INFORMATION

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ACADEMIC POSITION

Assistant Professor of Statistics – **Temple University**
Department of Statistical Science
Fox Business School

July 2012 - present

Assistant Professor of Statistics – **University of Florida**
Department of Statistics
College of Liberal Arts & Sciences

Oct. 2011 - June 2012

Postdoctoral Research Fellow & Lecturer – **Princeton University**
Department of Operations Research & Financial Engineering
Mentor: Professor Jianqing Fan

Sep. 2009 - Oct. 2011

EDUCATION

Ph.D. in Statistics – **The Wharton School, University of Pennsylvania**
Dissertation Supervisors: Professor Lawrence D. Brown and Professor Dylan Small

Aug. 2009

B.S. in Mathematics – **Fudan University**, Shanghai, China

Jun. 2004

RESEARCH INTERESTS

Big Data Analytics, Large Scale Multiple Testing, High-Dimensional Variable Selection, Statistical Decision Theory, Bayes and Empirical Bayes Methods, Causal Inference in Observational Studies, Statistical Applications in Genomics, Social Science and Economics.

SELECTED PUBLICATIONS & MANUSCRIPTS

- Han, X., Small, D., Foster, D. and Patel, V. (2011). The Effect of Winning an Oscar Award on Survival: Correcting for Healthy Performer Survivor Bias with a Rank Preserving Structural Accelerated Failure Time Model. *Annals of Applied Statistics*, Vol 5, 746-772.
- Fan, J., Han, X. and Gu, W. (2012). Estimating False Discovery Proportion Under Arbitrary Covariance Dependence (with discussion). *Journal of American Statistical Association, Theory and Methods*, 107(499), 1019-1035.
- Fan, J., Han, X., Gu, W. (2012). Rejoinder: Estimating False Discovery Proportion under Arbitrary Covariance Dependence. *Journal of American Statistical Association, Theory and Methods*, 107(499), 1046-1048.
- Fugi, I., Brown, L., Han, X. and Zhao, L. (2014). Hunting for Significance: A Bayesian Classifier under a Mixture Loss Function. *Journal of Statistical Planning and Inference*, Vol 154, 62-71.
- Fan, J. and Han, X. (2017). Estimation of the False Discovery Proportion with Unknown Dependence. *Journal of Royal Statistical Society-Series B, Methodology*. Vol 79, 1143-1164.
- Han, X. (2019). Nonparametric Screening under Conditional Strictly Convex Loss for Ultra-high Dimensional Sparse Data. *Annals of Statistics*, Vol 47, Number 4, 1995-2022.

HONORS & AWARDS

- Raghavarao Publication Award by Department of Statistical Science, Temple University, 2019
- Silver Medal of Best Paper Award from the International Consortium of Chinese Mathematicians, 2017
The paper selected from pure and applied mathematics published in the past five years in honor of Professor Shing-Tung Yau.
- Raghavarao Publication Award by Department of Statistical Science, Temple University, 2017
- Summer Research Award by Temple University, 2016
- Cited by the *Science* magazine, 2014
- Discussion Paper for Journal of American Statistical Association-Theory & Methods, 2012
- Best Poster Award from Penn Statistics Workshop in honor of Larry Brown's 70th birthday, 2010
- Laha Award from the Institute of Mathematical Statistics (IMS), 2010
- Best Poster Award from the International Workshop on Objective Bayes Methodology, 2009
- J. Parker Bursk Memorial Prize (Awarded for the best student research), Department of Statistics, The Wharton School, University of Pennsylvania, 2008
- Deming Student Scholar Award from the 64th Deming Conference on Applied Statistics, 2008
- Outstanding Graduate in Fudan University, 2004
- Honorable Mention by American Mathematical Contest in Modeling, 2003
- 1st Prize of National Mathematical Modeling Contest, Shanghai District, 2002
- 1st Prize of People's Scholarship in Fudan University (top 5%), 2001,2002,2003

CONFERENCES AND TALKS

- Invited Talks
 - International Chinese Statistical Association Meeting, New Brunswick, New Jersey, June 2018
 - International Chinese Statistical Association Meeting, Atlanta, Georgia, June 2016
 - International Chinese Statistical Association Meeting, Fort Collins, Colorado, June 2015
 - International Symposium on Business and Industrial Statistics/ Conference of the ASA Section on Statistical Learning and Data Mining, Durham, North Carolina, June 2014.
 - Eastern North American Regional Meeting, Orlando, FL, Mar. 2013.
 - International Chinese Statistical Association Meeting, Boston, MA, June 2012.
 - International Chinese Statistical Association Meeting, New York City, NY, June 2011.
 - Division of Biostatistics, Thomas Jefferson University, Oct. 2013.
 - Department of Mathematical Sciences, New Jersey Institute of Technology, Mar. 2013.
 - Department of Statistics, Florida State University, Mar. 2012.
 - Department of Statistics, Fox School of Business, Temple University, Feb 2011.
 - Department of Statistics and Biostatistics, Rutgers University, Feb. 2011.
 - Department of Statistics and Probability, Michigan State University, Feb 2011.
 - Department of Statistics, University of Florida, Feb 2011.
 - Department of Statistics, George Mason University, Feb 2011.

- IOMS, Stern School of Business, New York University, Feb 2011.
- Department of Mathematics, California State University-Northridge, Jan 2011.
- Department of Mathematics, University of Illinois at Chicago, Jan 2011.
- Department of Statistics, University of Wisconsin-Madison, Jan 2011.
- Department of ORFE, Princeton University, Jan 2011.
- Department of Statistics, Carnegie Mellon University, Mar. 2010
- Department of Statistics, Fox School of Business, Temple University, Jan. 2010
- Department of Statistical Science, Cornell University, Mar. 2009
- Information & Operations Management Department, Marshall School of Business, University of Southern California, Feb. 2009

- Contributed Talks

- Joint Statistical Meeting, Vancouver, BC, Aug. 2010
- New Researchers Conference in Statistics & Probability, Vancouver, BC, Jul. 2010
- Joint Statistical Meeting, Salt Lake City, UT, Jul. 2007

- Poster Presentation

- Penn Statistics Workshop in honor of Larry Brown's 70th birthday, University of Pennsylvania, Dec. 2010
- International Workshop on Objective Bayes Methodology, University of Pennsylvania, Jun. 2009
- Yale Statistical Workshop, Yale University, May 2009
- Mid-Atlantic Causal Inference Conference, Johns Hopkins University, May 2008

TEACHING
EXPERIENCE

- **Temple University**, July 2012-Present.

Undergraduate Courses Taught:

- STAT 2501: Quantitative Foundations for Data Science, Fall 2019
- STAT 3506: Nonparametric and Categorical Data Analysis, Fall 2019
- STAT 2512: Intermediate Statistics, Spring 2019
- STAT 2512: Intermediate Statistics, Spring 2018
- STAT 2512: Intermediate Statistics, Spring 2017
- STAT 2512: Intermediate Statistics, Spring 2016
- STAT 2512: Intermediate Statistics, Spring 2015
- STAT 2512: Intermediate Statistics, Fall 2014
- STAT 2512: Intermediate Statistics, Spring 2014
- STAT 2512: Intermediate Statistics, Fall 2013
- STAT 2512: Intermediate Statistics, Spring 2013
- STAT 2512: Intermediate Statistics, Fall 2012

Graduate Courses Taught:

- STAT 8101: Stochastic Process, Fall 2018

- STAT 8102: Statistical Methods III, Spring 2018
- STAT 8116: Categorical Data Analysis, Fall 2017
- STAT 8116: Categorical Data Analysis, Fall 2015
- STAT 8101: Stochastic Process, Spring 2015
- STAT 8101: Stochastic Process, Spring 2014
- STAT 8101: Stochastic Process, Spring 2013
- **University of Florida**, October 2011-June 2012.
Undergraduate Courses Taught:
 - STA 4321/5325: Introduction to Probability/Fundamentals of Probability, Summer 2012
 - STA 4321/5325: Introduction to Probability/Fundamentals of Probability, Spring 2012
 - STA 4321/5325: Introduction to Probability/Fundamentals of Probability, Fall 2011
- **Princeton University**, August 2009-October 2011
Graduate Course Taught:
 - OFR/FIN 505: Modern Regression and Time Series, Master of Finance Program, Bendheim Center for Finance, Fall 2010
- **University of Pennsylvania**, 2004-2009.
Undergraduate/Graduate Course Taught:
 - STAT 430/510: Probability Theory, The Wharton School, Summer 2007**Teaching Assistant**, 2004-2008
Introductory Business Statistics (STAT 101, 102); Statistical Inference (STAT 431); Introductory Statistics (STAT 112); Mathematical Statistics (STAT 550); Probability (STAT 430).
- Yanhui Xu, Ph.D. Dissertation Committee member, “Large Scale Multiple Testing for Dependent Nonparanormal Data”, Dec 2017 to Feb 2019.
- Lili Zhu, Ph.D. Dissertation Committee member, “A Predictive Time-to-event Modeling Approach with Longitudinal Measurements and Missing Data”, Jan 2019 to present.
- Qi Xia, Ph.D. Dissertation Committee member, “Sufficient Dimension Reduction with Missing Data”, May 2016 to May 2017.
- Dwaine Banton, Ph.D. Dissertation Committee member, “A Bayesian Decision Theoretic Approach to Fixed Sample Size Determination and Blinded Sample Size Re-estimation for Hypothesis Testing”. April 2015 to April 2016
- Yanping Liu, Ph.D. Dissertation Committee member, “New Approaches to Multiple Testing of Grouped Hypotheses”. April 2015 to April 2016.
- Yiyong Fu, Ph.D. Dissertation Committee member, “On Group Sequential Multiple Testing Controlling Family-wise Error Rates”. December 2014 to July 2015.
- Min Fu, Ph.D. Dissertation Committee member, “A Resampling Based Approach In Evaluation Of Dose Response Models”. September 2012 to October 2014.

DISSERTATION
COMMITTEES

THESIS
COMMITTEES

- Russell Yu, Master Thesis, Committee member, “Multivariate Technique Canonical Correlation”, University of Florida, April 2012.
- Laura Thayer, Master Thesis, Committee member, ”Practical Application of False Discovery Rates”, University of Florida, April 2012.

STUDENTS ADVISEES

- Yanhui Xu, Dissertation Co-advisor, Temple University, June 2015-February 2019.
- Daqian Huang, Independence Studies, Temple University, January-May 2016
- Shade Gabriel, Independence Studies, Temple University, June-August 2015.
- Xueying Tang, Independence Studies, University of Florida, May-June 2012.

SERVICE

- **Department Service**

Temple University

- Department Seminar Organizer, Fall 2014-Spring 2015;
- Graduate Affairs Committee, Fall 2012-May 2016, Sep 2018-present;

University of Florida

- Department Seminar Organizer, Spring 2012.

- **Referee Service**

- **Refereed Journals**

Annals of Statistics, Journal of American Statistical Association, Journal of Royal Statistical Society-Series B, Biometrika, Journal of Econometrics, Biometrics, Bernoulli, Statistica Sinica, Journal of Multivariate Analysis, Journal of Statistical Planning and Inference, Journal of Business and Economic Statistics, Electronic Journal of Statistics, International Economic Review, Communications in Statistics-Simulation and Computation, Statistics and Probability Letters, IEEE-Transactions on Engineering Management, book chapter in Springer Edited Volume: Big and complex data analysis, statistical methodology and applications, Methodology and Computing in Applied Probability.

- **Grant Proposals**

The National Security Agency
The Swiss National Science Foundation
The National Science Foundation

- **Conference Session Organizer**

- International Chinese Statistical Association Meeting, Chicago, IL, June 2017.
- International Symposium on Business and Industrial Statistics/ Conference of the ASA Section on Statistical Learning and Data Mining, Durham, North Carolina, June 2014.
- Eastern North American Regional Meeting, Orlando, FL, Mar. 2013.
- International Chinese Statistical Association Meeting, Boston, MA, June 2012.