

Horace W. Norton Prize for outstanding thesis research (sole awardee),
Department of Statistics, UIUC 2014

Graduate College Conference Travel Award, UIUC 2014, 2015, 2016

**JOURNAL
PUBLICATIONS**

Wang, Y., **Bi, X.** and Qu, A. (2019). A logistic factorization model for recommender systems with multinomial responses. *Journal of Computational and Graphical Statistics*, to appear.

Tang, X., **Bi, X.** and Qu, A. (2019). Individualized multilayer tensor learning with an application in imaging analysis. *Journal of the American Statistical Association*, to appear.

- Winner of ASA Student Paper Award (SLDS Section, 2017).

Bi, X., Feng, L., Wang, S., Lin, Z., Li, T., Zhao, B., Zhu, H. and Zhang, H. (2019). Common genetic variants have associations with human cortical brain regions and risk of schizophrenia. *Genetic Epidemiology*, **43**, 548-558.

Zhang, H., Liu, D., Zhao, J. and **Bi, X.** (2018). Modeling hybrid traits for comorbidity and genetic studies of alcohol and nicotine co-dependence. *Annals of Applied Statistics*, **12**, 2359-2378.

Bi, X. and Qu, A. (2018). A mixed-effects estimating equation approach to nonignorable missing longitudinal data with refreshment samples. *Statistica Sinica*, **28**, 1653-1675.

Bi, X., Qu, A. and Shen, X. (2018). Multilayer tensor factorization with applications to recommender systems. *Annals of Statistics*, **46**, 3308-3333.

Bi, X., Qu, A., Wang, J. and Shen, X. (2017). A group-specific recommender system. *Journal of the American Statistical Association*, **112**, 1344-1353.

- Winner of ASA Student Paper Award (SLDS Section, 2016).

Bi, X., Yang, L., Li, T., Wang, B., Zhu, H. and Zhang, H. (2017). Genome-wide mediation analysis of psychiatric and cognitive traits through imaging phenotypes. *Human Brain Mapping*, **38**, 4088-4097.

- Finalist for the journal issue cover.

Clark, S. E., Purcell, J. E., **Bi, X.** and Fortman, J. D. (2017). Cross-foster rederivation compared with antibiotic administration in the drinking water to eradicate *bordetella pseudohinzii*. *Journal of the American Association for Laboratory Animal Science*, **56**, 1-5.

Liechty, J. M., **Bi, X.** and Qu, A. (2016). Feasibility and validity of a statistical adjustment to reduce self-reported bias of height and weight in wave 1 of the Add Health Study. *BMC Medical Research Methodology*, 16(1): 124.

Bi, X. and Qu, A. (2015). Sufficient dimension reduction for longitudinal data. *Statistica Sinica*, **25**, 787-807.

**TEACHING
EXPERIENCE**

Information and Decision Sciences, University of Minnesota

Instructor

- MSBA 6430: Advanced Issues in Business Analytics Spring 2019
- MSBA 6510: Business Analytics Experiential Learning Spring 2019

Department of Statistics, UIUC

Instructor

- STAT 200: Statistical Analysis Spring 2013

Teaching Assistant

- STAT 429: Time Series Analysis Fall 2012
- STAT 400: Statistics and Probability I Fall 2011 and Spring 2012

**STUDENT
SUPERVISION**

Department of Biostatistics, Yale University

Undergraduate Research Supervisor

Summer 2017

- Shiyang Wang (Peking University, China)
- Zijie Lin (Zhejiang University, China)

**CONSULTING
EXPERIENCE**

Illinois Statistics Office, UIUC

Statistical Consultant

June 2013 - July 2016

- Provided statistical consultation to 60+ clients
 - clients from BioFortis Inc, Carle Foundation Hospital, Prairie Research Institute, Store Supply Warehouse LLC, and the University of Illinois
 - in the field of accounting, biology, business, ecology, engineering, finance, law, marketing, medicine, psychology, sociology, etc.
- Covered a wide range of services, including:
 - grant proposal and medical protocol review,
 - experimental design (survey design, clinical trial design),
 - data analysis (ANOVA, regression, time series, mixed models, etc.),
 - prediction (market prediction, yield prediction),
 - software tutorial and technical report writing.

**TALKS AND
PRESENTATIONS**

Invited Talks

- ICSA Applied Statistics Symposium, Raleigh, NC, June 2019
- Workshop on New Challenges and Journeys for Statistics in Science Discovery, Champaign, IL, April 2019
- Division of Biostatistics, University of Minnesota, April 2019
- Department of Statistics, University of Minnesota, November 2018
- SLDS Conference, New York City, NY, June 2018

- Department of ACMS, University of Notre Dame, December 2017
- School of Business Administration, University of Miami, December 2017
- Department of Statistics, University of Florida, December 2017
- Carlson School of Management, University of Minnesota, December 2017
- Discipline of Business Analytics, University of Sydney, December 2017
- Department of Statistics, Texas A&M University, November 2017
- Department of Decision Sciences, HEC Montreal, November 2017
- Department of Statistics and Actuarial Science, University of Waterloo, November 2017
- Farmer School of Business, Miami University, November 2017
- Joint Statistical Meeting, Baltimore, MD, August 2017
- ICSA Applied Statistics Symposium, Chicago, IL, June 2017
- New England Statistics Symposium, Storrs, CT, April 2017
- Institute of Statistics and Big Data, Renmin University of China, Beijing, China, December 2015
- School of Management, Fudan University, Shanghai, China, December 2015
- School of Statistics and Management, Shanghai University of Finance and Economics, Shanghai, China, December 2015

Conference Presentations

- Winter Conference on Business Analytics, Snowbird, Utah, March 2019
- Joint Statistical Meeting, Vancouver, Canada, August 2018
- UIUC Statistics Department Workshop, Champaign, IL, April 2018
- UIUC Statistics Department Workshop, Champaign, IL, April 2017
- ENAR, Washington, DC, March 2017
- NIDA Genetics Consortium Meeting, Rockville, MD, December 2016
- Joint Statistical Meeting, Chicago, IL, August 2016
- SLDS Conference, Chapel Hill, NC, June 2016
- ENAR, Austin, TX, March 2016
- Joint Statistical Meeting, Seattle, WA, August 2015
- ENAR, Miami, FL, March 2015
- Norton Lecture, Bohrer Workshop, Champaign, IL, November 2014
- ENAR, Baltimore, MD, March 2014
- Student presentation, Bohrer Workshop, Champaign, IL, November 2013

PROFESSIONAL SERVICE

Reviewer

- Annals of Statistics (1 paper)
- Biometrics (1)
- Biometrika (1)
- Electronic Journal of Statistics (7)
- Information Systems Research (1)
- International Conference on Information Systems (4)
- Journal of Computational and Graphical Statistics (2)
- Journal of Machine Learning Research (4)
- Journal of Multivariate Analysis (1)
- Journal of Systems Science and Complexity (1)
- Journal of the American Statistical Association (9)
- Statistica Sinica (2)
- Statistical Analysis and Data Mining (2)
- Statistics (1)
- Statistics and Its Interface (1)
- Statistics in Medicine (2)

Invited Session Organizer

- JSM 2017 (SLDS Section)

Session Chair

- JSM, 2015
- ICSA Applied Statistics Symposium, 2017
- SLDS Conference, 2018

COMPUTER SKILLS

R, Python, MATLAB, SAS; Linux

INTERNSHIPS

American International Assurance, Beijing, China
Assistant to the Vice President

Spring 2011

Beijing Municipal Bureau of Statistics, Beijing, China
Intern Statistician

Summer 2010

ACTUARIAL EXAMS PASSED

Probability, Financial Mathematics, Models for Financial Economics

PROFESSIONAL MEMBERSHIPS

American Statistical Association
Association for Information Systems
Institute for Operations Research and the Management Sciences
Institute of Mathematical Statistics
International Chinese Statistical Association