

**UNIVERSITY OF MIAMI**  
Curriculum Vitae

1. Date: Jan 01, 2020

PERSONAL

2. Name: Emma Jingfei Zhang
3. Office Phone: 305-284-9831
4. Current Academic Rank: Assistant Professor
5. Primary Department: Management Science
6. Secondary or Joint Appointments: N/A

HIGHER EDUCATION

7. Institutional (institution; degree; date conferred):  
University of Illinois at Urbana-Champaign, Champaign, IL  
Ph.D., Statistics, 2014  
Nankai University, Tianjin, China  
B.S., Mathematics, 2009

EXPERIENCE

8. Academic (institutions; rank/status; dates):
  - a) University of Miami, Assistant Professor, 2014-present
  - b) University of Illinois at Urbana-Champaign, PhD student/instructor, 2009-2014
  - c)

PUBLICATIONS

9. Juried or refereed journal articles or exhibitions:

**Zhang, J.**, Sun, W. and Li, L. (2019), Mixed Effect Time Varying Network Model and Application in Brain Connectivity Analysis, *Journal of the American Statistical Association*, accepted for publication.

Hu, J.\*, **Zhang, J.\***, Qin, H., Yan, T., and Zhu, J. (2019), Using Maximum Entry-Wise Deviation to Test the Goodness-of-Fit for Stochastic Block Models, *Journal of the American Statistical Association*, accepted for publication.

\*joint first authorship

**Zhang, J.** and Chen, Y. (2019), Modularity Based Community Detection in Heterogeneous Networks, *Statistica Sinica*, in press.

**Zhang, J.** and Cao, J. (2017), Finding Common Modules in a Time-Varying Network with Application to the Drosophila Melanogaster Gene Regulation Network, *Journal of the American Statistical Association*, 112, 994-1008.

Deng, C., Guan, Y., Waagepetersen, R. and **Zhang, J.** (2017), Second-order Quasi-likelihood for Spatial Point Processes, *Biometrics*, 73, 1311-1320.

**Zhang, J.** and Chen, Y. (2017), A Hypothesis Testing Framework for Modularity Based Network Community Detection, *Statistica Sinica*, 27, 437-456.

**Zhang, J.** and Chen, Y. (2015), Monte Carlo Algorithms for Identifying Densely Connected Subgraphs, *Journal of Computational and Graphical Statistics*, 24, 827-845.

**Zhang, J.** and Chen, Y. (2015), Exponential Random Graph Models for Networks Resilient to Targeted Attacks, *Statistics and Its Interface*, 8, 267-276.

**Zhang, J.** and Chen, Y. (2013), Sampling for Conditional Inference on Network Data, *Journal of the American Statistical Association*, 108, 1295-1307.

[student paper competition winner 2012, ASA Sections on Statistical Computing and Statistical Graphics]

He, X., Yang, Y. and **Zhang, J.** (2012), Bivariate Downscaling with Asynchronous Measurements, *Journal of Agricultural, Biological, and Environmental Statistics*, 17, 476-489.

Chon, H., Loucks, T., Kraft, S., **Zhang, J.** and Ambrose, N. (2013), "Individual Differences in Auditory-motor Integration Revealed by Speech Fluency Manipulations," Proceeding of the International Conference on Acoustics, 19, 060147.

Chon, H., Kraft, S., **Zhang, J.**, Loucks, T. and Ambrose, N. and (2013), Individual Variability in Delayed Auditory Feedback Effects on Speech Fluency and Rate in Normally Fluent Adults, *Journal of Speech Language and Hearing Research*, 56, 489-504.

#### PROFESSIONAL

##### 10. Funded Research Performed:

Grant: Collaborative Research Initiative for the Frost Institute for Chemistry and Molecular Science, University of Miami

Project: Predicting Protein Network within Animals

Principal Investigator: Xiaodong Cai, Akira Chiba and Emma Jingfei Zhang

Amount: \$15,000

Date: June 1<sup>st</sup> 2018-May 30<sup>st</sup> 2019

Grant: Provost Research Award, University of Miami

Project: Community Detection in Large Scale Product Co-Purchase Network

Principal Investigator: Emma Jingfei Zhang

Amount: \$6,500

Date: June 1<sup>st</sup> 2015-May 31<sup>st</sup> 2016

Grant: Provost Research Award, University of Miami

Project: Detect Fake Online Reviews Using Semantic Network Analysis

Principal Investigator: Zoey Chen and Emma Jingfei Zhang

Amount: \$6,500

Date: June 1<sup>st</sup> 2016-May 31<sup>st</sup> 2017

11. Professional and Honorary Organizations (member; officer; date):

Member, American Statistical Association

Member, Institute of Mathematical Statistics

Member, International Chinese Statistical Association

12. Honors and Awards:

- University of Miami Provost Research Award (2016)
- University of Miami Provost Research Award (2015)
- IMS New Researchers Travel Award (2013)
- Norton Prize for Outstanding Thesis in Statistics, University of Illinois (2013)
- Student Paper Competition Winner, ASA Sections on Statistical Computing and Statistical Graphics (2012)

13. Other Professional Activities:

Invited Talks - Seminar:

Southern University of Science and Technology, Shenzhen, China, Statistics Seminar, 2019

Boston University, Statistics Seminar, 2019

Yale University, Biostatistics Seminar, 2019

Chinese University of Hong Kong, Hong Kong, Statistics Seminar, 2018

Northeast Normal University, Jilin, China, Statistics Seminar, 2018

Nankai University, Tianjin, China, Statistics Seminar, 2017

Simon Fraser University, Vancouver, Canada, Statistics Seminar, 2016

University of Miami, Finance Brownbag Seminar, 2016

University of Alberta, Edmonton, Canada, Statistics Seminar, 2015

Beijing University, Beijing, China, Statistics and Econometrics Seminar, 2015

Fudan University, Shanghai, China, Statistics Seminar, 2015

University of Miami, Biostatistics Seminar, 2014

Syracuse University, Mathematics and Statistics Seminar, 2013

Invited Talks - Conference:

Joint Statistical Meetings, Philadelphia, PA, 2020 (upcoming).  
11th ICSA International Conference, Hangzhou, China, 2019.  
Joint Statistical Meetings, Denver, CO, 2019.  
ICSA China Conference, Tianjin, China, 2019.  
International Workshop on Network Data Analysis, Jilin, China, 2018.  
Joint Statistical Meetings, Vancouver, Canada, 2018.  
IMS Asia Pacific Rim Meeting, Singapore, 2018.  
International Conference on Econometrics and Statistics, Hong Kong, 2018.  
Joint Statistical Meetings, Baltimore, MD, 2017.  
ICSA International Conference on Data Science, Jilin, China, 2017.  
International Conference on Computational and Methodological Statistics, London, UK, 2017.  
Joint Statistical Meetings, Chicago, IL, 2016.  
ICSA Applied Statistics Symposium, Atlanta, GA, 2016.  
IMS New Researchers Conference, Boston, MA, 2014.

Conference Organization:

Organizer of an invited session at the Joint Statistical Meetings, Philadelphia, PA, 2020 (upcoming).  
Organizer of an invited session at the International Conference on Frontiers of Data Science, Hangzhou, China, 2019.  
Organizer of a topic contributed session at the Joint Statistical Meetings, Vancouver, Canada, 2018.  
Organizer of an invited session at the ICSA Applied Statistics Symposium, Atlanta, GA, 2016.

Committee Work:

Committee chair, 2018 International Workshop on Network Data, Jilin, China.  
Committee member, JSM 2019 Statistical Learning and Data Science Poster Award.

Ad Hoc Journal Reviewing:

Journal of the American Statistical Association, Journal of Computational and Graphical Statistics, Electronic Journal of Statistics, Journal of Multivariate Analysis, Statistica Sinica, Technometrics, Network Science, Social Networks

TEACHING

14. Teaching Specialization (courses taught):

Applied Probability and Statistics, University of Miami, Spring 2019  
Applied Time Series Analysis and Forecasting, University of Miami, Spring 2019  
Applied Probability and Statistics, University of Miami, Fall 2017

Applied Time Series Analysis and Forecasting, University of Miami, Spring 2017  
Statistics for Managerial Decision Making, University of Miami, Fall 2016  
Applied Time Series Analysis and Forecasting, University of Miami, Spring 2016  
Statistics for Managerial Decision Making, University of Miami, Fall 2015  
Statistics for Managerial Decision Making, University of Miami, Fall 2014  
Statistics, University of Illinois at Urbana-Champaign, Spring 2013  
Statistics, University of Illinois at Urbana-Champaign, Fall 2010

15. Thesis and Dissertation Advising/Post-doctoral student supervision:

Ph.D. Dissertation Advisor:

Biao Cai (Management Science), 2021 (expected)

Jie Zhou (Management Science), 2021 (expected)

Ph.D. Dissertation Committee Member:

Chong Zhao (Management Science), 2018

Ming Wang (Management Science), 2018

SERVICE

16. University Committee and Administrative Responsibilities:

Executive Education Faculty Advisory Committee, University of Miami, 2017-present.

SBA Women's Network, University of Miami, 2015-present.

Faculty Hiring, Department of Management Science, University of Miami, Fall 2015-Spring 2020.

PhD Recruitment, Department of Management Science, University of Miami, Fall 2015-Spring 2020.

Seminar Organizer, Department of Management Science, University of Miami, Fall 2015-Spring 2020.

Faculty Interview, Scholarship Weekend, University of Miami, 2014-2016.