Quan Zhang

CONTACT INFORMATION

2110 Speedway, IROM Department
Austin, TX 78705

612-5171877
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EDUCATION

University of Texas at Austin, Austin, TX

PhD candidate, Information, Risk and Operations Management, McCombs School of Business, August 2015 – May 2020 (expected)

University of Minnesota, Twin Cities, Minneapolis, MN

Master of Science (Ph.D. study), Biostatistics, May 2015

- Thesis: *Design and analysis of crossover clinical trials using Bayesian methods*
- Advisor: Bradley P. Carlin, Ph.D

Peking University, Beijing, China

Bachelor of Science and Economics, Biological Sciences and Economics (Double Major), July 2012

- Thesis: *Organelles Distance from a Pathway Perspective*
- Advisor: Hong Qu, Ph.D

RESEARCH EXPERIENCE

Research Assistant, McCombs School of Business, University of Texas at Austin

- Statistics, supervised machine learning, variational inference, big data
  Supervisor: Mingyuan Zhou, Ph.D — September 2015 – present

Research Assistant, Division of Biostatistics, University of Minnesota

- Design and analysis of crossover clinical trials using Bayesian methods
  Supervisor: Bradley P. Carlin, Ph.D — September 2013 – August 2014
- Big data analysis of HIV gene expression
  Supervisor: Cavan S. Reilly, Ph.D — September 2012 – May 2013

REFEREED PUBLICATIONS

1. **Zhang, Q.** and Zhou, M. "Nonparametric Bayesian Lomax Delegate Racing for Survival Analysis with Competing Risks." To appear in ***Neural Information Processing Systems* (NIPS 2018)**, Montreal, Canada, Dec. 2018.
2. **Zhang, Q.** and Zhou, M. "Permuted and Augmented Stick-Breaking Bayesian Multinomial Regression." ***Journal of Machine Learning Research*** (2018): Vol. 18(204) 133.
3. **Zhang, Q**, , Toubouti, Y., and Carlin, B.P. "Design and analysis of Bayesian adaptive crossover trials for evaluating contact lens safety and efficacy." ***Statistical Methods in Medical Research*** 26.3 (2017): 1216-1236.

WORKING PAPERS

1. "Lomax Delegate Racing Hierarchical Classification."
2. "Hierarchical Dependent Modal and Distributional Regression."
3. "Bayesian Nonparametric Weibull Survival Models with Semi-implicit Variational Inference."
4. "Multi-task Recommendation: Preference Ranking and Risk Management."

COMPUTING SKILLS

`R`, `python`, `TensorFlow`, `C`, `Rcpp`, `SAS`, `sql`.

Awards

School of Public Health Dean's Scholarship, University of Minnesota, September 2012
All-round Excellent Student for academic year 2010-2011, Peking University, November 2011
Sumitomo Corporation Scholarship for academic year 2009-2010, Peking University, November 2010
All-round Excellent Student for academic year 2008-2009, Peking University, November 2009
Second Prize in 2007 China National High School Mathematics Competition, October 2007
First Prize in 2007 China National High School Chemistry Competition, October 2007

Internship Experience

Consultant May 2015– August 2015
in4mation insights, LLC., Needham, MA
- Sales prediction using online search data
- Engine oil promotion

Statistician June 2013 – August 2013
Johnson & Johnson Vision Care, Inc., Jacksonville, FL
- Sample size estimation for crossover clinical trial

Consultant January 2012 – February 2012
Roland Berger Strategy Consultants, Beijing, China
- *Mobile Bank Development in China*, sponsored by World Bank International Finance Corporation

`SAS` **programmer** July 2011 – September 2011
Peking University Clinical Research Institute, Beijing, China
- New drug application sponsored by Reckitt Benckiser Healthcare Ltd., U.K.

Extra-curricular activities

President of Peking University Folk Art Association February 2011 – January 2012
Member of Peking University Folk Art Association September 2008 – July 2012

References

Available upon request