

Quan Zhang

CONTACT INFORMATION	2110 Speedway, IROM Department, Austin, TX 78705 https://zhangquan-ut.github.io	cellphone: 737-7017010 zhangquan@utexas.edu
EDUCATION	McCombs School of Business, the University of Texas at Austin , Austin, TX Ph.D candidate, August 2015 – May 2020 (expected) Department of Information, Risk and Operations Management <ul style="list-style-type: none">• Advisor: Mingyuan Zhou, Ph.D The University of Minnesota, Twin Cities , Minneapolis, MN Master of Science (Ph.D. study), Biostatistics, May 2015 <ul style="list-style-type: none">• Thesis: <i>Design and Analysis of Crossover Clinical Trials Using Bayesian Methods</i>• Advisor: Bradley P. Carlin, Ph.D Peking University , Beijing, China Bachelor of Biological Science and Economics (Double Major), July 2012 <ul style="list-style-type: none">• Thesis: <i>Organelles Distance from a Pathway Perspective</i> (bioinformatics)• Advisor: Hong Qu, Ph.D	
RESEARCH INTEREST	Methodology <ul style="list-style-type: none">• Statistics, machine learning, interpretable learning, Bayesian methods, variational inference, generative adversarial models Application <ul style="list-style-type: none">• Survival analysis, classification, discrete choice models, missing data imputation, regression (for skewed and heterogeneous data), big data• Online Finance (particularly crowdfunding), bioinformatics, medical data analysis, clinical trial	
RESEARCH EXPERIENCE	Research Assistant, McCombs School of Business, University of Texas at Austin <ul style="list-style-type: none">• Statistics, interpretable machine learning, variational inference Supervisor: Mingyuan Zhou, Ph.D September 2015 – present Ph.D research intern, Google, LLC., Mountain View, CA <ul style="list-style-type: none">• Missing data imputation using variational autoencoders• Forecasting famines in Africa, collaborated with the World Bank Supervisor: Dekun Zou, Ph.D and Joseph Xu, Ph.D January 2019 – March 2019 Research Assistant, Division of Biostatistics, University of Minnesota <ul style="list-style-type: none">• Design and analysis of crossover clinical trials using Bayesian methods Supervisor: Bradley P. Carlin, Ph.D September 2013 – August 2014 <ul style="list-style-type: none">• Big data analysis of HIV gene expression Supervisor: Cavan S. Reilly, Ph.D September 2012 – May 2013	
REFEREED PUBLICATIONS	<ol style="list-style-type: none">1. Quan Zhang and Mingyuan Zhou, “Nonparametric Bayesian Lomax Delegate Racing for Survival Analysis with Competing Risks.” <i>Advances in Neural Information Processing Systems</i> (AKA NeurIPS) (2018).2. Quan Zhang and Mingyuan Zhou, “Permuted and Augmented Stick-Breaking Bayesian Multinomial Regression.” <i>Journal of Machine Learning Research</i> (2018): Vol. 18(204) 1-33.3. Quan Zhang, Youssef Toubouti and Bradley Carlin, “Design and analysis of Bayesian adaptive crossover trials for evaluating contact lens safety and efficacy.” <i>Statistical Methods in Medical Research</i> 26.3 (2017): 1216-1236.	

WORKING PAPERS	<ol style="list-style-type: none"> 1. Quan Zhang and Mingyuan Zhou, “Improving Variational Inference by Adversarial Learning and Reparameterizable Updating Equations.” 2. Quan Zhang, Qiang Gao, Mingfeng Lin and Mingyuan Zhou, “Weibull Racing Survival Models and Online Peer-to-Peer Lending.”
WORKING IN PROGRESS	<ol style="list-style-type: none"> 1. “Lomax Delegate Racing Hierarchical Classification.” 2. “Regenerative and Augmented Missing Value Imputation.” 3. “Hierarchical Dependent Modal and Distributional Regression.”
TEACHING EXPERIENCES	<ol style="list-style-type: none"> 1. Teaching assistant for undergraduate business statistics, UT Austin, 2015 – present. 2. Teaching assistant for graduate mathematical statistics, UT Austin, 2018. 3. Teaching assistant for graduate Bayesian machine learning, UT Austin, 2018. 4. Teaching assistant for graduate linear models, the University of Minnesota, 2014.
COMPUTING SKILLS	Python, R, C, PyTorch, TensorFlow, Rcpp.
SERVICE ACTIVITIES	<p>Reviewer of Neural Information Processing Systems (NeurIPS), 2016-present</p> <p>Reviewer of International Conference of Machine Learning (ICML), 2017-present</p>
AWARDS	<p>Graduate Continuing Bruton Fellowship for 2019-2020 academic year, UT Austin.</p> <p>McCombs Graduate Continuing Fellowship for 2019-2020 academic year, UT Austin.</p> <p>University of Texas at Austin Graduate School Summer 2019 Fellowship, UT Austin.</p> <p>2012 School of Public Health Dean’s Scholarship, the University of Minnesota.</p> <p>All-round Excellent Student for academic year 2010-2011, Peking University.</p> <p>Sumitomo Corporation Scholarship for academic year 2009-2010, Peking University.</p> <p>All-round Excellent Student for academic year 2008-2009, Peking University.</p>
REFERENCES	<p>Mingyuan Zhou Associate Professor, Department of Information, Risk and Operations Management McCombs School of Business, the University of Texas at Austin E-mail: mingyuan.zhou@mcombs.utexas.edu Phone: 512-232-6763</p> <p>Stathis Tompaidis Professor, Department of Information, Risk and Operations Management McCombs School of Business, the University of Texas at Austin E-mail: stathis.tompaidis@mcombs.utexas.edu Phone: 512-471-5252</p> <p>Qiang Gao Assistant Professor, Department of Information Systems and Statistics Zicklin School of Business, the City University of New York E-mail: qiang.gao@baruch.cuny.edu Phone: 646-312-3703</p>