ZHIHAO HUANG

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EDUCATION

University of Michigan, Rackham Graduate School

Graduate Student, M.S. in Applied Statistics

Academic: GPA: 3.9/4.0

Ann Arbor, USA Expected Apr. 2019

Nankai University, School of Mathematical Science

B.S. in Mathematics and Applied Mathematics

Tianjin, China Jul. 2017

• Academic: GPA: 3.5/4.0

• Honors: "Gongneng" Scholarship, 2014&2015

WORK EXPERIENCE

Liberty Mutual Insurance Group

Boston, USA

Data Science Intern Jun. 2018 - Aug. 2018

Project: Impact of Underwriter Touch on Sales

- Developed observational study on the value of underwriter touch for the sales of business insurance policies
- · Conducted predictive modeling with glm, and causal inference with propensity score matching
- Estimated the value of touch that may increase 10k in sales and \$1.5M in premium each year

Mobvoi Inc. Beijing, China

Sales Data Analyst Intern

Feb. 2017 - Jun. 2017

- Conducted daily analysis on sales data, including sales trend prediction with linear model and sku correlation analysis
- Developed data visualization report platform with R markdown (plotly) and Shiny for CEO office
- Constructed VBA tools of data organization for sales team

Munich Re Group Beijing Branch

Beijing, China

Actuary and Data Analyst Intern

Jun. 2016 - Oct. 2016

Project: Motor Risk Prediction through Telematics Data Mining

- Developed innovative risk prediction models through motor telematics data mining (1 million records)
- · Conducted data extraction with web-crawling, data analysis with one-way analysis, undersampling method, generalized linear model under R and VBA
- Accomplished the first applicable big data Vehicle Usage-Based Insurance product in Asia-Pacific

RESEARCH EXPERIENCE

Unsupervised Feature Selection with Unknown Noise and Missing Data

Aug. 2016 - Apr. 2017

Tianjin, China Research Assistant

Adviser: Pengfei Zhu, Associate Professor, Lab of Machine Learning and Data Mining, Tianjin University

- Adopted Mixture of Gaussian for unknown noise, sparse method for feature selection and Damped Newton for optimization
- · Conducted algorithm evaluation under Matlab with facial recognition and feature extraction tasks
- Accomplished the basic goal of the algorithm and achieved outstanding performance

Investigation into Optimization Methods and Performance Evaluation

Mar. 2016 - Jun. 2016

Research Assistant

Tianjin, China

Adviser: Xianming Xu, Lecturer, School of Mathematical Science, Nankai University

- · Tested and compared popular optimization methods, including Newton and its derivative modifications
- Improved computational speed with Horner's Method and Broyden's Method
- · Conducted convergence and computational speed comparisons under different conditions with Matlab

Harbin Institute of Technology, School of Mathematical Science

Harbin, China

International Summer School of Mathematics

Jul. 2015

Adviser: Jianqing Fan, ORFE, Princeton University; Stanley Osher, IPAM, UCLA

Coursework: Sparse High-Dimensional Statistical Learning (Penalized Least-Squares, Matrix Completion, etc.)

EXTRACURRICULAR ACTIVITIES

Davos Foreign Guests Dept., 2014 Summer Davos Economic Forum

Tianjin, China

Volunteer Team Leader

Sept. 2014

Supervised team performance and scheduled duty roster

COMPUTER SKILLS AND OTHERS

Programming Skills: C++, Python, R, Matlab, Stata, SAS, SQL, Hadoop, Microsoft Office and VBA, Linux, LaTeX Language: Mandarin(native), English(fluent), TOEFL(112/120, speaking 27/30), GRE(V152+Q169+AW4.0)