Tong Wang

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EDUCATION

University of New South Wales, Sydney (UNSW Sydney) **Sydney, AU**
Master; Statistics 8/2016 – 5/2019

- **WAM: 81.90 / 100.00 (graduate with excellence)**
- **GPA: 3.92/4.0 (ref. WES)**
- **Main Courses:** Stochastic analysis, Stochastic Processes, Bayesian Inference and Computation, Discrete/Continuous Time Financial Modelling, Categorical Data Analysis, Applied Regression Analysis
- **Honors/Rewards:** Master of Statistics with Excellence

California State University, Northridge (CSUN) **Los Angeles, US**
Bachelor; Mathematics-Statistics 1/2014 – 5/2018

- **GPA:** 2.6 / 4.0 (overall); 3.3/4.0 (major)
- **Main Courses:** Intro Probability, Partial Differential Equation, Real Analysis, Complex Analysis, Probability Measure, Advanced Linear Algebra, Advanced Statistics, Math Modeling
- **Honors/Rewards:** Dean's List (Cal State Northridge, 12/2017)

Northeast Forestry University (NEFU) **Harbin, P.R.C**
Bachelor (No degree earned); Civil Engineering 9/2012-12/2013

- **GPA:** 3.13 / 4.0
- **Main Courses:** Structural mechanics, Strength of materials, Calculus I&II, Linear Algebra

WORK EXPERIENCE

PingAn Property Insurance of China Ltd. (Headquarters) **Shenzhen, P.R.C**
Big Data Analyst 3/2021 – Present

- Using HiveQL, which is like SQL to do data extraction, transformation, loading and data analysis. Building wide table and perform OLAP data analysis.
- Customer's traffic flow analysis: For some APP product that is already online (now has more 140 million users), according to the difference of customer group, namely new customers, active customers, silent customers (those who do not active in 90-180 days), lost customers (those who do not active more than 180 days), performing the analysis of traffic, functions usage, retention rate, and activity rate, etc. Providing user portraits according to user behavior preferences, loyalty, etc to prove the rate of retention and activity.
- Activity operation review analysis. Provide data support analysis for completed activities to improve the pertinence and participation of future activities.
- KPI assessment of branches across the country, including the achievement tracking of indicators of migration rate, activity rate and service utilization rate.
- Data logic combing to promote report or statement development and launch.
- Other more detailed data analysis support in many different specializations.

INTERNSHIP EXPERIENCE

PingAn Life Insurance of China Ltd. (Headquarters) **Shenzhen, P.R.C**
Business analyst (Intern) 6/2018 – 7/2018

- Assist the Department to process and analyze product sales data, evaluate product distribution and promotion, and predict the focus of product promotion in the future.
- Revise, supervise and sort out the data reported by 25 provincial institutions
- Complete a forecast template through daily report and monthly report, which can be used to estimate the profitability of multiple products in the same period.

CSC Financial Co., Ltd. (Beijing Branch) **Beijing, P.R.C**
Fund manager & product manager (Intern) 6/2017-7/2017

- Learn the operation process of various businesses at the counter, contact and guide individual customers and institutional customers to handle business.
- Familiar with the basic knowledge of various asset allocation such as stocks and funds in the securities market, customer wealth management and marketing skills.
- Proficient in using operating software for market analysis and structured design for customer asset investment.
- Learn to fill in the individual bills of securities business.

PROJECT

A Copula Representation of The Asymmetric Laplace Distribution **Sydney, AU**
6/2020-12/2020

- **Research Content:** A maximum likelihood method for jointly estimating the marginal conditional quantiles of multiple response variables under the framework of linear regression is studied. We consider a slight reparameterization of the Multivariate Asymmetric Laplace Distribution proposed by Kotz et al. and use its position-scale hybrid representation to implement a new EM algorithm for estimating model parameters. The idea is to extend the connection between the asymmetric Laplace distribution and the well-known univariate quantile regression model to a multivariate environment.
- **Research Results:** This paper proposes a new likelihood-based method for joint estimation of conditional quantiles of multiple response variables. The multivariate asymmetric Laplace distribution is appropriately reparametrized. Using this process, it is proved that the regression parameters can be easily estimated in closed form, thus avoiding the direct maximization process. The performance of the two methods is evaluated through simulation experiments, and the extreme quantiles are also considered as possible simulation scenarios. Finally, through empirical research, since quantile regression has been widely used, several extensions of the results obtained in this paper can be analyzed in future studies.

Model Prediction Using Logistic Regression **Los Angeles, US**
1/2018-5/2018

- **Research Content:** On the basis of collecting and reading academic research papers in recent 5 years, select undergraduate students from one of the famous American universities, calculate the influencing factors of their grades, and give preliminary judgments on gender, race, family environment and early grades, which can judge the student's performance in college.
- **Research Performing:** according to the requirements of the project, select the GPA summary of mathematics undergraduates from a famous university in the United States in recent 5 years, obtain their gender, age, race, SAT score, enrollment time, course pass rate, GPA, GPA of the previous year, graduating high school and other information through legal public data, and use logistic expression to judge whether various factors will affect the student's GPA.
- **Research Results:** The data regression equation is used for data analysis. By constantly testing various data combinations to improve the accuracy of the data, the analysis conclusion is drawn - based on the undergraduates majoring in Mathematics in one of the famous American universities, it can be found that race, SAT (the student's college entrance score) and GPA of the student in previous years will greatly affect the student's total score. Then, given a new student whose grades are unknown, the GPA range of the student at graduation can be predicted.

SKILLS AND INTERESTS

Languages: Chinese mandarin & English; Fluent in English (6 years of overseas study life experience)
Skills: Adept in MATLAB、R、SAS、SQL、Minitab、SPSS、Microsoft Office
Interests: Digital technology, mobile phone chip performance, and technology product unboxing & evaluation.