YIDONG ZHOU

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Education

University of Science and Technology of China (USTC) — **HEFEI, CHINA**
Candidate for a B.S. in Statistics, GPA: *3.74/4.3 (87.96/100)* — *Aug 2015 – Present*

- 2016 Excellent Student Scholarship (1%)
- Relevant Coursework: Bayesian Analysis(99), Regression analysis(90), Complex Analysis(90), Stochastic Process(95), Operations Research(97), Mathematical Statistics(92), Algebraic Structure(91),Practical Statistical Software(R & Python)(95), Data Structure and Database(91)

Experience

INTERIM ANALYSES USING REPEATED CONFIDENCE BANDS FOR CRTS. — **CAMBRIDGE, MA**
Research Assistant, supervised by Professor Rui Wang — *Sept 2018 – Nov 2018*

- Implemented multivariate repeated confidence bands in three settings(repeated measures responses, recurrent events, survival data)
- Implemented algorithms of calculating mean and covariance in different settings
- Utilized the resampling algorithm to compute the border of confidence bands
- Proposed an algorithm which can place confidence bands and confidence regions adaptively

IMPLEMENTATION OF RTREE, STREE AND MASAL — **NEW HAVEN, CT**
Research Assistant, supervised by Professor Heping Zhang — *Jun 2018 – Sept 2018*

- Constructed R package with Rcpp
- Integrated C/C++ into R to implement Classification Trees (RTREE), Survival Analysis Trees (STREE) and Multivariate Adaptive Splines for Analysis of Longitudinal Data (MASAL) model
- Programmed powerful functions in R, such as R interface function, plot function, etc
- Proposed an adaptive tree drawing algorithm which can calculate coordinates by recursive computation according to node distribution, and then arrange the position of each node in the plot

DATA ANALYSIS FOR INVENTORY MANAGEMENT — **SUZHOU, CHINA**
Research Assistant, supervised by Professor Yugang Yu — *Dec 2017 - May 2018*

- Conducted case-driven survey of cross-border e-commerce to develop inventory management strategy
- Performed substantial cleaning of in-situ data from a top Amazon seller and fitted data in R and Python
- Used machine learning models to improve stock tracking accuracy, anticipate sales and customer traffic to forecast stock requirements

TEXT EMOTION ANALYSIS BASED ON THEME — **HEFEI, CHINA**
Research Assistant, Supervised by Professor Qi Liu — *Sept 2017 - Dec 2017*

- Preprocessed Taobao users' review data with the Chinese text segmentation package (jieba) in Python
- Performed POS tagging, removed stop words and extracted text features based on the theme (price, express, etc.)
- Used K-Nearest Neighbor (KNN) algorithm to classify the text

Leadership

USTC COMPUTER PROGRAMMING — **HEFEI, CHINA**
Teaching Assistant — *Sept 2017 – Jan 2018*

- Lectured to over 90 UTSC students at Q&A sessions of *Computer Programming A* for four hours per week
- Managed lab guidance, graded student assignments

STUDENT UNION, MINISTER OF ACTIVITY — **HEFEI, CHINA**
Minister of Activity — *Sept 2016 - Jun 2017*

- Led a team of 15 to draft policy memos, coordinated discussions, and finalize policy enactment
- Led development and launch of a performance assessment system to improve operational excellence
- Chaired monthly meetings to collect feedback from student representatives to improve the interaction between faculty and students

FRESHMEN SEMINAR — **HEFEI, CHINA**
Research Team Leader — *Sept 2015 - Jun 2016*

- Read the essay related to our research topics
- Built a model about predicting global climate
- Completed the essay and thesis oral defense with teammates
- Got an A With the joint efforts of team members

Skills

Statistics & Computer

- Naive Bayesian Model, Decision Tree Model, Logistic Regression Model
- C, R, Python, MATLAB, Microsoft Office, HTML, CSS, JavaScript, Bootstrap, PS, AE

Activities

- Big Data & Computing Intelligence Contest
- National College Students Mathematical Modeling Competition
- Big Data Modeling Contest
- "Find the next madman" Competition