

# 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 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