

# YIDONG ZHOU

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Education	<b>University of Science and Technology of China (USTC)</b>	<b>HEFEI, CHINA</b>
	<b>Candidate for a B.S. in Statistics</b> , GPA: 3.74/4.3 (87.96/100) <ul style="list-style-type: none"><li>• 2016 Excellent Student Scholarship (1%)</li><li>• 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 &amp; Python)(95), Data Structure and Database(91)</li></ul>	<i>Aug 2015 – Present</i>
Experience	<b>INTERIM ANALYSES USING REPEATED CONFIDENCE BANDS FOR CRTS.</b>	<b>CAMBRIDGE, MA</b>
	<b>Research Assistant, supervised by Professor Rui Wang</b> <ul style="list-style-type: none"><li>• To be continued</li></ul>	<i>Sept 2018 – Nov 2018</i>
	<b>IMPLEMENTATION OF RTREE, STREE AND MASAL</b>	<b>NEW HAVEN, CT</b>
	<b>Research Assistant, supervised by Professor Heping Zhang</b> <ul style="list-style-type: none"><li>• Constructed R package with Rcpp</li><li>• 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</li><li>• Programmed powerful functions in R, such as R interface function, plot function, etc.</li><li>• 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</li></ul>	<i>Jun 2018 – Sept 2018</i>
	<b>DATA ANALYSIS FOR INVENTORY MANAGEMENT</b>	<b>SUZHOU, CHINA</b>
	<b>Research Assistant, supervised by Professor Yugang Yu</b> <ul style="list-style-type: none"><li>• Conducted case-driven survey of cross-border e-commerce to develop inventory management strategy</li><li>• Performed substantial cleaning of in-situ data from a top Amazon seller and fitted data in R and Python</li><li>• Used machine learning models to improve stock tracking accuracy, anticipate sales and customer traffic to forecast stock requirements</li></ul>	<i>Dec 2017 - May 2018</i>
	<b>TEXT EMOTION ANALYSIS BASED ON THEME</b>	<b>HEFEI, CHINA</b>
	<b>Research Assistant, Supervised by Professor Qi Liu</b> <ul style="list-style-type: none"><li>• Preprocessed Taobao users' review data with the Chinese text segmentation package (jieba) in Python</li><li>• Performed POS tagging, removed stop words and extracted text features based on the theme (price, express, etc.)</li><li>• Used K-Nearest Neighbor (KNN) algorithm to classify the text</li></ul>	<i>Sept 2016 - Dec 2017</i>
Leadership	<b>USTC COMPUTER PROGRAMMING</b>	<b>HEFEI, CHINA</b>
	<b>Teaching Assistant</b> <ul style="list-style-type: none"><li>• Lectured to over 90 UTSC students at Q&amp;A sessions of <i>Computer Programming A</i> for four hours per week</li><li>• Managed lab guidance, graded student assignments</li></ul>	<i>Sept 2017 – Jan 2018</i>
	<b>STUDENT UNION, MINISTER OF ACTIVITY</b>	<b>HEFEI, CHINA</b>
	<b>Minister of Activity</b> <ul style="list-style-type: none"><li>• Led a team of 15 to draft policy memos, coordinated discussions, and finalize policy enactment</li><li>• Led development and launch of a performance assessment system to improve operational excellence</li><li>• Chaired monthly meetings to collect feedback from student representatives to improve the interaction between faculty and students</li></ul>	<i>Sept 2016 - Jun 2017</i>
	<b>FRESHMEN SEMINAR</b>	<b>HEFEI, CHINA</b>
	<b>Research Team Leader</b> <ul style="list-style-type: none"><li>• Read the essay related to our research topics</li><li>• Built a model about predicting global climate</li><li>• Completed the essay and thesis oral defense with teammates</li><li>• Got an A With the joint efforts of team members</li></ul>	<i>Sept 2015 - Jun 2016</i>
Skills	<b>Statistics &amp; Computer</b> <ul style="list-style-type: none"><li>• Naive Bayesian Model, Decision Tree Model, Logistic Regression Model</li><li>• C, R, Python, MATLAB, Microsoft Office, HTML, CSS, JavaScript, Bootstrap, PS, AE</li></ul>	
	<b>Activities</b> <ul style="list-style-type: none"><li>• Big Data &amp; Computing Intelligence Contest</li><li>• National College Students Mathematical Modeling Competition</li><li>• Big Data Modeling Contest</li><li>• "Find the next madman" Competition</li></ul>	