Zihao (David) Xu

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EDUCATION

Pomona College   **Claremont, CA**
Bachelor of Arts, Computer Science & Mathematics   *Expected - May 2019*
- GPA: 3.96/4.0, Pomona Scholar (6 semesters), Bruce Jay Levy Memorial Award in Mathematics
- Related coursework: Artificial Intelligence, Algorithms, Stochastic Operations Research; Computational Statistics; Big Data; Econometrics; Data Structures; Probability; Statistical Theory; Bayesian Statistics

Gaoxin No. 1 High School   **Xi'an, Shaanxi, China**
Top 1 High School in Xi'an, Leader in International Education   *June 2014*
- Cumulative GPA: 98.5/100, 11 AP courses: received 10 fives
- Standardized Test Scores: SAT - 2250/2400 (Math & Reading: 1540), SAT Subject Test - 2400/2400

WORK EXPERIENCE

Summer Analyst   **Los Angeles, CA**
Cornerstone Research   *May 2018– Aug 2018*
- Cleaned, managed and visualized datasets with >10 million observations using R, SQL and SAS to advise two major auto manufacturers on recall strategies
- Interpreted and critically analyzed the validity of statistical sampling methods employed by opposing expert
- Led R workshops on data wrangling and visualization for full-time analysts and enforced data organization and optimal workflow within case teams
- Received full-time return offer in recognition of work quality and work ethics

Business and Credit Risk Analyst Intern   **Pasadena, CA**
Scratch Financial, LLC   *Sep 2017– Current*
- Built scalable pipelines to automate data cleaning and extraction from *json* credit reports
- Devised and selected 6 out of 35 new variables that filtered out high risk loan applicants and reduced company overall default rate by 2 percentage points
- Built an internal dashboard that visualizes temporal and geographical trends in important metrics, used by the management team on a daily basis

Summer Researcher at Mathematics Department   **Claremont, CA**
Pomona College Summer Undergraduate Research Program   *May 2017 – Dec 2017*
- Devised and implemented a new machine learning algorithm - Bag of Little Random Forests (BLRF) as an R package, utilizing a paralleled structure for faster computation
- Evaluated and visualized the statistical and computational performance of BLRF using simulated data sets
- Fine-tuned hyperparameters of BLRF and analyzed their impact on accuracy and time consumption
- Authored paper, *Bag of Little Random Forests,* and won the first prize at 2017 Fall USRESP Competition

President, *2016-2017*   **Claremont, CA**
Claremont Chinese Student Association (CSA)   *May 2016 – May 2017*
- Planned and coordinated there major on-campus events to promote awareness of Chinese culture
- Acquired $4500 as external funding through successful negotiations with outside partners
- Provided 450 members across the College Consortium with career assistance through alumni connections, cooperation with career-counseling agencies and alumni on-campus lectures

SKILLS & MEMBERSHIP

Github Portfolio: https://github.com/zihaoxu/My_Portfolio

Tech Skills: Python (pandas, numpy, seaborn, sklearn), R, Deep Learning, Machine Learning, SQL, Java, C

Other Skills: Mandarin, English, Japanese (intermediate), Filming, Guitar, Cooking, Golf

Memberships: Tech for Good, Sagehen Capital Management, Claremont Chinese Student Association