

Yutong Dai

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EDUCATION

University of Illinois at Urbana-Champaign (UIUC) , IL, USA	Sept.2017 – May.2019 (Expected)
M.S. in Statistics	GPA: 4.00/4.00
Sichuan University (SCU) , Sichuan, China	Sept.2013 – Jun.2017
B.S. in Mathematics with honor (Concentration in Statistics)	GPA: 3.68/4.00

RESEARCH & EXPERIENCES

Research Dec.2016 – Dec.2017

- Research Topic: Convergence Rate Analysis of Parallel Block Coordinate Descent Method [\[Link\]](#)
Adviser: Prof. Yang Weng Submitted to *Neurocomputing*, under review
- Proposed synchronous parallel block coordinate descent algorithms for minimizing a genre of composite functions with sub-linear convergence rate
 - Implemented algorithms to solve large scale logistic regression with ℓ_1 norm penalty

Research Aug.2016 – Nov.2017

- Research Topic: Attention Data Provides Insights into the Feedback Mechanisms in Financial Market Bubble [\[Link\]](#)
Adviser: Prof. Yang Weng Submitted to *PIOS ONE*, under review
- Utilized the search volume index as the novel and leading measurement of public attention to study the stock market bubble generating feedback hypothesis
 - Tested the hypothesis on Nasdaq Composite, Dow Jones Industrial Average, S&P 500 Index with theirs Google Trend Index

Internship Jan.2018 – Present

- Data Science Intern at Anheuser-Busch InBev* Location: Urbana, IL
- Developed business insights using statistics and computer science to identify the best barley growing regions in countries of operation and to suggest the best barley varieties and management practice
 - Provided analytics to global Agronomic and Procurement teams

Project: *Real Estate Market Data Analysis* Dec.2017

- Group Leader* Adviser: Prof. Feng Liang
- Performed data cleaning, querying, and exploration in R and python
 - Developed data products to help Airbnb hosts to determine listing prices using Sparse Regression and Random Forest
 - Researched how amenities and geolocation influence listing prices
 - Designed a User Interface for customers to gain insight into Airbnb rental markets in Boston [\[Link\]](#)

Project: *Predicting Box Office Revenue and IMDb rating for Movies* Dec.2017

- Group Leader* Adviser: Prof. Ruoqing Zhu
- Developed a revenue prediction model based on Gradient Boosting, Random Forest and Elastic Net
 - Designed a classifier to predict the IMDb ratings based on SVM and Sparse Logistic Regression

Contest: Interdisciplinary Contest in Modeling [\[Link\]](#) Feb.2016

- Group Leader* Adviser: Prof. Rui Zhu **Awards:** Meritorious Winner (Top 8%)
- Addressed the problem of ranking the shortage degree by using systematic cluster analysis
 - Modified Cobb-Douglas production function to find the mechanism of how social and environmental drivers influence supply and demand
 - Devised an intervention strategy based on the existing Lesotho Highlands Water Project

HONORS & AWARDS

• <i>Dean's List</i> (Top 10)	2014-2017
• <i>2nd Prize</i> , National College Students' Mathematical Modeling Competition	2015
• <i>Excellent Student Leader</i> , Sichuan University	2014

SKILLS & TOOLS

- Skills: Machine Learning Fundamentals, Scientific Data Visualization
- Software and Programming: R, Python, SAS, \LaTeX , Rmarkdown, Rshiny, SQL