

Zi-Yi ZHANG

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EDUCATION

Southern University of Science and Technology (SUSTech)

Sept. 2017 – Present

Bachelor of Science in Statistics

Shenzhen, China

- GPA: 3.61 / 4.00
- Coursework: Advanced Linear Algebra (91), Advanced Calculus (88), Ordinary Differential Equations (94), Mathematical Statistics (96), Probability (89), Statistical Linear Models (88), R (88), Multivariate Statistical Analysis (91), Nonparametric Statistics (88), SAS (91), Survival Analysis (91), etc.

HONORS & AWARDS

National Encouragement Scholarship	2020
Excellent Volunteer for Fighting COVID-19	2020
National Encouragement Scholarship	2019
Second Prize Position	2019
Freshman Scholarship	2017

RESEARCH EXPERIENCE

DTRs Research Intern in Parkinson's Disease

Jan. 2021 – Present

Research Intern

Singapore, Duke-NUS

- Analyze data from PPMI(The Parkinson's Progression Markers Initiative)
- Use the method of offline reinforcement learning
- Build up an individualized treatment decision regime for PD patients

Seminar of Gait Analysis in Parkinson's Disease

Sept. 2020 – Mon. 2021

Group Member

Shenzhen

- Review previous analysis paper
- Detect features that can measure the severity of Parkinson's disease (like gait dynamics, risk of fall)
- Establish links between specific gait impairments, their underlying mechanisms, and disease progression

Survey of Sleeping Quality for SUSTech Students

Mar. 2020 – June 2020

Planner and Data Analyst

Online

- Conducted an entire sample survey process to collect the sleeping quality of SUSTech students
- Compared the results with the nationwide average case from the previous study
- Obtained the sleeping features of SUSTech students

Investment Project: CAPM Model

Dec. 2019 – Dec. 2019

Individual Project

Online

- An empirical analysis of real stock data from the Shanghai Stock Exchange
- Did analysis work by MATLAB language
- Tested the validity of the CAPM model

Pubg Finish Placement Prediction

Nov. 2019 – Dec. 2019

Data Analyst

Shenzhen

- Built a team with other three first-level students
- Fitted models (lasso, ridge, PCA, SVM, etc.) to predict the finish placement through game strategies
- Received praise from the professor and get a good grade: **95/100**

Investment Project: Markowitz Model

Nov. 2019 – Nov. 2019

Individual Project

Shenzhen

- An empirical analysis of real stock data from the Shanghai Stock Exchange
- Did analysis work by MATLAB language
- Obtained the optimal portfolio by the Markowitz model

Lean and Six Sigma Design Project

July 2018 – Aug. 2018

Data Analyst

Shenzhen

- Participated in a 6-person team to make a mousetrap car within four weeks
- Applied Lean Six Sigma idea in flow analysis, implemented data analysis methods to improve efficiency
- Helped our team win **first** place

INTERNSHIP & ACTIVITIES

Voluntary Teaching for Children of Medical Staff

Mar. 2020 – April 2020

Volunteer

Online

- A special voluntary activity during the COVID-19 outbreak time
- 10 hours of volunteer work
- Awarded by Excellent Volunteer for Fighting COVID-19

Intern in Hou Jie Branch of Bank of China

July. 2019 – Aug. 2019

Internship, Lobby Assistant

Dongguan, China

- Lived independently in a city without help from old friends or relatives
- Finished with a high score: **95/100**

Deloitte Digital Difference Camp

June 2019 – Aug. 2019

Organizer and Modeling Builder

Online

- Applied innovative knowledge to solve business cases related to digitization
- Reached the semifinals

Students' Association Union (SAU)

May 2018 – Nov. 2018

Publicity Department, Minister

Shenzhen

- Coordinated student clubs in organizing large-scale events like "Clubs Meeting" and "Clubs Carnival"
- Led the edition of the new club manual and distributed 700 copies to freshmen

Left-behind Children's Summer Camp

Aug. 2018 – Aug. 2018

Volunteer

Guangzhou, China

- Guided 10 left-behind children's (7-14 years old) to participate in a 3-day military training
- Volunteered for 48 hours

MISCELLANEOUS

Skills: Python (project experience), R (project experience), SAS (project experience), MATLAB (project experience), Java (basic), Numbers (proficient), Keynote (proficient), Pages (proficient)

Language: English (CET-4: 572; CET-6: 502; IELTS: 6.5), Chinese (native speaker)

Interests: Reading, Table Tennis (fourth in school), Exercise/Running (often), Journey (yearly)