

Jack Zhang

jackdaihan.zhang@outlook.com · Houston, TX 77005

EDUCATION

Rice University, Houston, TX, B.A. Candidate Expected Graduation May 2023
Intended Major: Computational and Applied Mathematics
Relevant Coursework: Introduction to Operations Research, Stochastic Models, Linear and Integer Programming, Financial Optimization

Beijing No.4 High School (BHSF), Beijing, China May 2019
Track and Field Varsity, Chinese national second-level athlete
AP Scholar with distinction

EXPERIENCE

Hashfuture Technology Ltd. Beijing, China
Market Research Intern May 2021-August 2021

- Devised an optimal resource allocation strategy through mathematical modeling and computer simulation for the city-wide deployment of smart EV charging facilities
- Evaluated the company's business prospect by analyzing the profitability of the business and operation model to offer insights on further actions or adjustments
- Facilitated the forecasting of the company's long-term business growth through market research and a review of relevant scientific literature in EV charging

Business Analytics and Insights Department, Pfizer Inc. Beijing, China
Intern August 2020-December 2020

- Conducted data analytics in Python and R, focusing on A/B testing and forecasting
- Offered insights in the form of more than 200 pages of quantitative reports to visualize performance and competitions and to facilitate smarter decision-making
- Reorganized and cleaned national sales data via Microsoft Excel

Sparkzone (research) Institute, Tsinghua University Beijing, China
Researcher, first author July 2017-December 2018

- Co-authored the paper: "*Capacitated Assortment Optimization with Pricing Under the Paired Combinatorial Logit Model*"
- Formulated a two-step approach to optimize retailer profit using paired combinatorial logit model and mixed integer program
- Conducted more than 1000 numeric tests using MATLAB
- Papers accepted by IEEE International Conference. Attended 2018 International Conference on Industrial Engineering and Engineering Management

Xingyu Autism Children Center Beijing, China
Volunteer Teacher June 2017-August 2017

- Assisted 30 children with autism in developing reading, math-studying, and communication skills
- Worked at the autism children center for 10 hours per week on average

ACTIVITIES AND AWARDS

BHSF Dietary Nutrition Club, *Founder* 2018
Regional Team Ranked 1/70 American Regional Mathematics League 2018
Honor Roll (2.5% Global Contestants), American Mathematics Contest 10 2018

SKILLS

High proficiency in Python, MATLAB, Java, and Microsoft Excel
Intermediate proficiency in R
Intermediate mathematical modeling skill