

Shu hao Tang

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EDUCATION

RUTGERS BUSINESS SCHOOL, RUTGERS UNIVERSITY Newark & New Brunswick, NJ
Ph.D. in Operations Research (Mathematics-related, GPA: 4 / 4) Aug 2022 - Present

Advisor: Prof. Jian Yang

- Research Interests: Dynamic Programming, Reinforcement Learning, **Business Analytics, Risk Analysis**
- Coursework: Nonlinear **Optimization**, Discrete Optimization, **Regression Models, Statistics**

COLUMBIA UNIVERSITY New York, NY
M.S. in Operations Research (GPA: 3.58 / 4 for the 1st year) Aug 2019 - Feb 2021

- Coursework: Project Management, Machine Learning, **Business Analytics, Statistics, Corporate Finance**

TONGJI UNIVERSITY Shanghai, China
B.E. in Vehicle Engineering (GPA: 4.55 / 5) Sep 2014 - Jul 2019

- Award: Tongji University Excellent Undergraduate (**TOP 5%** of the Graduating Class)
- Thesis: Modelling and Control of Air Supply System of a PEM Fuel Cell
- Coursework: C/C++ Programming, Engineering Applications of MATLAB, **Microeconomics**

ACADEMIC EXPERIENCE

Rutgers University Newark & New Brunswick, NJ
Teaching Assistant Sep 2022 - Present

- Course: Introduction to Probability (for Ph.D. Students, 2022 Fall) and other **Statistics**-related courses

Columbia University New York, NY
Research Assistant (Statistical Data Analytics, Healthcare) Feb 2020 - Dec 2020

“Incidence and Determinants of Dental Restoration Failure at a U.S Dental School”

- Extracted and organized crucial **data** from a database of dental treatment records through python (including data cleaning and data transformation)
- Designed specific **algorithms** of matching treatment records, compared the survival curves of two or more groups, calculated the test statistics by log rank test and determined whether a variable is statistically significant to the failure of dental restoration or not
- Analyzed 11 variables in total (including discrete and continuous variables) and obtained an important risk classification for patients based on their age
- Reported results of each step to the professors from **Columbia Dental School** and **Prof. Truong** each month

SAIC-Volkswagen & Tongji University Shanghai, China
Research Assistant (Business Analysis, Risk & Opportunity Analysis) Jun 2017 – Apr 2018

“SAIC-Volkswagen: Application of Innovative Models and New Technologies in Auto Field”

- Researched applications of new business models, marketing strategies and **new technologies (Big Data, AI)**
- Drafted a research report regarding their possible applications and provided 3 specific ways to accomplish them respectively, like setting up two databases about driving habits and vehicle conditions

PROFESSIONAL EXPERIENCE

Roland Berger, (a global strategy consulting firm) Shanghai, China
Strategic Consultant Intern (Business Analytics) Sep 2018 - Nov 2018

“Strategic Planning of Automatic Driving for a leading technology company”

- Collected strategic plans of 60+ companies and offered strategic advice (data visualization & presentation)

BOSCH, (a global auto part supplier) Shanghai, China
Market Development & Strategy Intern (Market Analytics) May 2018 - Sep 2018

- Led market research for different markets, collected massive data, investigated the overall economy conditions, accomplished competitors' research and obtained significant business insights
- Maintained internal databases and used Excel to update multiple data
- Liaised with customers, organized relevant documents, and offered suggestions about Bosch Brand Protection

SKILLS

Technical: C/C++, Python, R, SQL, MATLAB, AMPL, Microsoft Office Tools, AutoCAD, SolidWorks

Languages: Native in Chinese, Basic in German