

Chenbo "Stan" Shi

PHD STUDENT · STATISTICS ENTHUSIAST

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"Everything is about optimization. Utilize machine learning tools to make smart decisions."

Skills

C++, GUROBI, Python, R, Microsoft SQL, Tableau, SAS, \LaTeX , Minitab

Education

Ph.D. in Business Administration

Storrs, CT

SCHOOL OF BUSINESS, UNIVERSITY OF CONNECTICUT

Aug. 2019 - Present

- Concentration: Operations and Information Management

Master of Science in Applied Statistics

Bowling Green, OH

COLLEGE OF BUSINESS, BOWLING GREEN STATE UNIVERSITY

Aug. 2017 - May. 2019

- Graduate Student Statistical Consultant Spring 2019 at Center for Business Analytics

Bachelor of Science in Applied Mechanics

Shanghai, China

SCHOOL OF AEROSPACE ENGINEERING AND APPLIED MECHANICS, TONGJI UNIVERSITY

Sep. 2010 - May. 2014

- A mathematics-oriented major, core courses including Elastic Mechanics, Fluid Mechanics, Computational Mechanics, etc.

Work Experience

Cost Management Analyst

Shanghai, China

SHANGHAI PUHUI PUBLIC RENTAL HOUSING OPERATION CO.LTD

Jun. 2014 - May. 2017

- Participated in 6 public housing developments in Shanghai, more than 900 units in total; Examined terms of contracts relevant to construction process; Audited construction cost with Glodon Cloud Cost Platform; Contacted government departments to complete administrative matters including the construction permit, the fire-control conformance certificate, etc.

Futures Day Trader Intern

Shanghai, China

HNA FUTURES Co., LTD

Nov. 2013 - May. 2014

- Received rigorous training in various strategies of day trading stock index futures; Made frequent trading decisions in a highly stressful situation throughout the trading hours; Pushed myself beyond physical limits to trade silver futures from 9pm to 2:30am the following morning

Selected Projects

Solving Optimization Problems with Random Forest Embedded

C++ - Optimization, Python - ML

- Apply Random Forest on benchmark data sets, such as Winequality, Concrete, fetch split rules and write into .txt files; Implement different Mixed-Integer-Programming models and algorithms such as Benders decomposition and Splits constraints generation in C++; Solve the optimization problems with models/algorithms using GUROBI solver

Comparison of COVID-19 Transmission Behavior Between United States and China

R - Generalized Linear Model

- Expanded an existing COVID-19 case data set from 2 features to 15 features by appending additional data, such as weather, geographic information and demographic information; Utilized data exploratory analysis and Generalized Linear Model with R to identify key factors impacting the spreading speed of the virus 3 months after the outbreak

Predicting the Chance to Get H1B using Decision Tree, Logistic Regression, NN and KNN

Python - ML

- Pre-processed the Labor Condition Application data set that contains 55 attributes and 528,147 observations; Selected relevant features with data exploratory analysis and chi-squared test; Ran Decision Tree, Logistic Regression, Neural Network and KNN with different parameters to find the best parameters setting under each algorithm

Hospital Management System Database Design

SQL - Hospital Database

- Designed an Entity Relationship Diagram for a hospital management database that consists of 8 tables managing Doctors, Patients, Insurance, Laboratory, Rooms, Bills, Prescription and Medicine; Determined the table structure and relationships between the tables; Insert records into the tables; Implemented the design using Microsoft SQL

Awards & Activities

Graduate Assistantship (UCONN)

Aug. 2019 - Present

- TA of Business Information System (OPIM3103) and Operations Management (OPIM3104): Developed quiz questions and graded assignments

Graduate Assistantship (BGSU)

Aug. 2017 - May. 2019

- TA of Regression Analysis (STAT5020): Held office hours and graded assignments/quizzes

Third Place Team Award, 2018 Business Analytics Case Competition (BGSU)

Oct. 2018

IDENTIFYING POTENTIAL CUSTOMERS OF ELECTRIC VEHICLES WITH LOGISTIC REGRESSION

Python - ML

- Pre-processed a customer satisfactory survey data set with 226,293 records that contains background information of customers who purchased a vehicle during Jan. 2017 to Jun. 2017; Analyzed the importance of features using chi-squared test and Logistic Regression; Utilized achieved statistical result to re-design a succinct survey to help electric car manufacturers target potential customers

Interests

Working out (ACE Certified Personal Trainer); Playing team sports (basketball, soccer, etc.)