

Jung-Cheng (Larry) Chang

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Skills

Programming: C++, R, Python, SQL, MATLAB

Mathematics: Computational Methods, Linear Algebra

Education

Boston University, Questrom School of Business

Boston, MA

M.S. Mathematical Finance & Financial Technology

January 2022

- Coursework: Statistics, Programming (R, Python, C++), Stochastic Methods of Asset Pricing

University of California, Davis

Davis, CA

B.S. Biochemistry and Molecular Biology; Minor in Statistics

June 2020

- Coursework: Regression Analysis, Analysis of Variance, Non-parametric Statistics, Mathematical Statistics, Big Data, Differential Equations, High-performance Computing, Multivariable Calculus, Probability & Statistics, Linear Algebra, Categorical Data Analysis, Program Design & Data Structures

Experience

Hsinli's Department Store

Changhua, Taiwan

Summer Analytics Intern

June 2019 - August 2019

- Constructed database of 7-years store historical record, implemented linear regression and time series analysis to forecast seasonal demand (Excel, R)
- Performed data visualization and proposed marketing strategies to increase revenue by 30% (R)
- Reviewed store guidelines, identified opportunities to improve operation procedures through standardization of data collection and pre-processing, and presented to owner to reduce data to be recorded by 50%

Projects

University of California, Davis

Davis, CA

L-Store Database Project

January 2020 - March 2020

- Collaborated with computer science students in designing and testing new database (L-store) that is better at both reading and writing entries, and increased benchmarking efficiency by 5% (Python)

Predictive Analytics Project

September 2019 - December 2019

- Explored NBA games statistics, applied principal component analysis (PCA) to reduce dimension, and implemented unsupervised machine learning (K-means clustering) to divide players into 11 natural categories (R)
- Evaluated model with 5-years data and provided visualization

Additional Information

Languages: Mandarin, English, Spanish (intermediate level)

Interests: Table tennis (UC Davis Table Tennis Club), tennis, rewards traveling (30+ free flights redeemed)

Leadership:

- Served as Treasurer & Senior Advisor at Taiwanese Student Association at UC Davis. Managed financial matters including budgeting and event pricing, facilitated communications between club officers
- Served as Founder & President at UC Davis Award Travel Association. Established operation guidelines, prepared biweekly, motivated and coached members to travel reward plan and card selection.

Volunteer: Volunteered at UC Davis Medical Center Surgical ICU, intern at 4 local clinics (Bolivia)