# Xinmeng (Cecilia) Xie

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## EDUCATION

**Brandeis University International Business School** GPA: 3.78 — **Waltham, MA**
*Master of Science in Business Analytics* — 08/2019 - 12/2020
**Zhongnan University of Economics and Law** GPA: 3.68 — **Wuhan, China**
*Bachelor of Science in Management* — 09/2015 - 06/2019

## SKILLS

- **Programming:** R (Tidyverse, Datatable, ggplot2, Kinds of Regression Packages, Machine Learning Packages), MySQL, Python (Matplotlib, Scikit-learn), Tableau, Advanced Excel (v-lookup, VBA)
- **Machine Learning:** NB classifiers, KNN, Neural Network, Decision Tree, Random Forest, PCA, Regularization
- **Statistics Analysis:** A/B Testing, Time Series Analysis, Monte Carlo and Bootstrapping Simulation

## INTERNSHIP & FIELD EXPERIENCE

**Fidelity AI Incubator** — **Boston, US**
**Data Analytics Project Intern (on going)** — 06/2020 -
- Developed a relational database in MySQL based on specific SEC filings about enforcement rules and actions (in XML format) using python to parse information in XML file and do data cleaning
- Use the database to perform SQL queries to get the patterns related to the fines, violation, regulators
- Applied python "ner" and "re" package to create tags (organization, person) for summaries in the filings
- Designed a visual static and an interactive semantic network based on relationships between entities identified in the enforcement database

**Wuhan RUIHUA Certified Public Accountants** — **Wuhan, China**
**Auditing Intern** — 11/2018 - 02/2019
- Assisted with two government special audit projects: Audited purchases, sales and stock of medicine consumables of 7 hospitals, and executive compensation of 1 state-owned sports company
- Developed audit working papers with Excel, conducted walk-through tests, examined original vouchers, completed inventory check and sorted and compiled audit working papers

**KPMG** — **Wuhan, China**
**Management Consulting Intern** — 06/2018 - 08/2018
- Visited 10 client companies in Optical Valley High-tech zone of Wuhan, and governmental organizations to collect firsthand information of stakeholders' financing requirements and write and collate meeting minutes
- Conducted preliminary analysis of similar industry planning cases of other cities
- Investigated on the rental price of office buildings in Optics Valley "Financial Port" to provide data support
- Plotted relevant charts in Excel and designed ppt

## ACADEMIC PROJECT EXPERIENCE

**Bond Portfolio Risk Management (Computer Simulation and Risk Assessment)** — 03/2020 - 04/2020
- Estimated the Value at Risk and Expected Shortfall of a Treasury Inflation Protected securities bond portfolio
- Applied PCA technology to simulate one-day ahead yield curve, based on which to calculate the spot rate
- Forecasted the CPI in the next 5 years using SARIMA method

**Analyzing Grocery Shopping Behavior (Big data I)** — 10/2019 - 11/2019
- Analyzed the data structure, designed MySQL database, and performed data exploratory analysis in Python
- Took queries in MySQL to extract the customers' shopping pattern at monthly-household level and figure out the retailer with most loyalists
- Plotted the distributions and descriptive statistical graphs in python (using Matplotlib): the number of items purchased per month, the number of shopping trips per month, the number of customers who did most of their purchase on a single retailer in each state