

# MADELINE LIN

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## EDUCATION

**Monroe College;** New Rochelle NY

**April 2022 - April 2023**

*Post Masters Certificate Data Science* GPA: 4.0/4.0

- Core Courses: Machine Learning, Statistical Computing, Object Oriented Software, Database Systems, Data Science, Big Data Management and Analytics, Analytic Techniques, Applied Data Science Project

**University of Texas at Austin;** Austin TX

**Jul 2018 - May 2020**

*Master of Quantitative Economics* GPA: 3.51/4.0

- Core Courses: Econometrics, Microeconomics, Macroeconomics, Statistics, Data Mining, Econometrics with R, Causal Inference, Computer Programming: Python, Business Analytics & Decision Modeling
- Societies: Longhorn French Society Member, TeXercise Club Member

**Shanghai Maritime University;** Shanghai China

**Sep 2014 - Jul 2018**

*Bachelor of International Accounting* GPA: 3.76/4.0; Ranking: 1/31

- Core Courses: Financial Accounting, Financial Management, Calculus, Statistics, VB Programming, Linear Algebra, Marketing Analytics, Public Finance, International Finance, Monetary and Banking
- Societies: Vice president of Accounting Club, World Archery Club Member

## EXPERIENCE

**Deloitte - Transfer Pricing Consultant;** New York NY

**June 2021 - Present**

- Work with Ph.D. economists, tax attorneys and tax specialists in a team environment to analyze and resolve international transfer pricing issues faced by multinational enterprises in a wide variety of industries
- Engaged in a spectrum of transfer pricing projects including global documentation, value chain alignment, audit defense, advanced pricing agreements, financial transactions, and operational transfer pricing etc.
- Performed detailed economic and financial data analyses, as well as more complex modeling and empirical analyses

**CertiK - Economic Research Intern;** New York NY

**Dec 2019 - Jan 2020**

- Supported blockchain security industry in economic analysis of Ethereum 2.0, using statistical techniques to build a validator economic incentive model and evaluate the feasibility and profitability of Proof of Stake algorithm

**Austin Film Festival - Data Intern;** Austin TX

**May - Jun 2019**

- Performed sales forecast analysis of the film badges, created data visualizations for film submissions and produced a 3-page report with insights for marketing strategies

**Ernst & Young LLP Shanghai - Audit Intern;** Shanghai China

**Jan - Feb 2017**

- Examined worksheets, prepared sheet for financial statement year-over-year analysis and appraised internal control systems

## PROJECTS

**Spotify Personal Music and Recommendation System Analysis - Individual Project;** New York NY

**July 2022**

- Created data visualizations to understand personal music tastes and listening habits
- Built the optimal stream prediction model based on track audio features (i.e. danceability, energy, liveness, key, etc.) through regression models, stepwise selection, and decision tree methods, and proposed a better recommendation system

**The Natural Gas Demand Model - Individual Project;** Austin TX

**May 2020**

- Collected and organized demand, price, temperature, policy, GDP, etc. to multivariate time series data frame
- Built vector auto regression model, smoothed average method, log-linear regression model to predict natural gas demand for the next 10 years and offer potential solutions to policy makers

**The Micro Communities in the Chinese Stock Market - Research Assistant;** Shanghai China

**May 2017**

- Assisted with a panel data model research of external investment analysis for Chinese companies with similar capital structures
- Cleaned up data format, aggregated data, designed charts of different types of shares for 50 companies from monthly to annual

## SKILLS

**Computer Skills:** R, Python, SQL, SAS, Stata

**Languages:** Native in Mandarin, Fluent in English, Conversational in French

**Hobbies:** Lift weights, Taste cheese, Binge on music, Bike around the city, Watch classic films