

# MADELINE LIN

29-22 Northern Blvd • Queens, NY 11101  
madeline.zhiyang.lin@gmail.com • (718) 877-9160 • [Personal Webpage](#)

## PROFESSIONAL EXPERIENCE

**Deloitte - Tax Consultant, Investment Management Industry**; New York NY **Jun 2021 - Present**

- Worked with global team to deliver tax transfer pricing services to multinational corporations within investment management, private equity, and asset management industries, conducted in-depth quantitative analyses of intercompany transactions
- Performed comprehensive interest rate and debt capacity analyses for blocker intercompany loans in real estate investment funding, utilized financial models to benchmark LBOs and CLOs based on target IRR, and provided strategic investment advisory services for optimized financial decision making
- Conducted qualitative industry research, performed functions, risk, asset analyses, economic benchmark studies and applied accounting, capital adjustments and evaluated key financial operating metrics or interest rates ratios, including considerations such as tenor, time, subordination premium, and credit rating
- Utilized power query, pivot tools to extract, manipulate and cross check large datasets from multiple data sources, used Tableau to visualize intercompany transaction flows, and created insightful dashboards to analyze transaction volumes and patterns effectively
- Executed intellectual property valuation exercises, identified components and estimated economic useful life, benchmarked the WACC, and applied the DCF model, and proposed potential intercompany transactions to optimize tax savings
- Reviewed financial statements, 10Ks, and intercompany agreements, collaborated with audit FSI teams to conduct tax provision audits
- Spearheaded the integration of technology software (i.e. Workiva) for automated generation of transfer pricing reports and memos, developed the innovative streamlined process, significantly improving project operating margins from ~45% to ~88%
- Acted as Workiva specialist to provide series of trainings to the entire transfer pricing delivery center team, delegated various tasks, conducted reviews and offered constructive feedbacks to enhance team performance
- Participated in client calls, documented meeting minutes, facilitated internal team coordination, and monitored related action items

## PROJECTS & LEADERSHIP

**Financial Market Bootcamp - Personal Endeavor**; New York NY **Jan 2024 - Present**

- Attended semi-monthly live sessions and engaged in pre-recorded videos, covering a spectrum of financial market topics, including, fundamental concepts on asset classes, global market, portfolio management, key metrics, option Greeks, and risk management techniques
- Developed a diversified portfolio of eight sub-asset classes, employed the asset allocation mean-variance optimization model, evaluated portfolio performance by calculating the Sharpe ratio and conducting backtests, performed the risk decomposition, and assessed the portfolio return

**Deloitte Generative AI Firm Contribution Projects - Deloitte GenAI Ambassador**; New York NY **May 2023 - Present**

- Assisted in content management strategy for GenAI Studio (firm wide internal GenAI tool), supported tool design and enhancements, and developed user cases in tax business segment
- Collaborated with software engineers on NLP ontology driven matching algorithms for healthcare analytics platform, designed UI for healthcare data mapping process, and integrated LLMs across all layers of the application

**Spotify Personal Music and Recommendation System Analysis - Individual Project**; New York NY **April 2023**

- 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
- Conducted a comparative research machine learning study of Support Vector Regression and Feedforward Neural Network on Spotify recommendation system

## EDUCATION

**Monroe College; Post Master Data Science**; New Rochelle NY **Apr 2022 - Apr 2023**

- GPA: 4.0/4.0 *Relevant Courses:* Econometrics, Data Mining, Probability and Statistics, Causal Inference, Computer Programming: Python, Business Analytics & Decision Making, Financial Statement Analysis

**University of Texas at Austin; Master of Quantitative Economics**; Austin TX **Jul 2018 - May 2020**

- GPA: 3.51/4.0 *Relevant Courses:* Econometrics, Data Mining, Probability and Statistics, Causal Inference, Computer Programming: Python, Business Analytics & Decision Making, Financial Statement Analysis

**Shanghai Maritime University; Bachelor of International Accounting**; Shanghai China **Sep 2014 - Jul 2018**

- GPA: 3.82/4.0 GRE: 169(Quant) *Relevant Courses:* Microsoft Access, Statistics, Linear Algebra, International Finance, Financial Management, Monetary and Banking

## TECHNICAL PROFICIENCIES

**Skills and Databases:** Python, R, SQL, Tableau, PowerBI, Microsoft Suites, S&P Capital IQ, Bloomberg, Moody's, Pitchbook, Morningstar

**Certificates:** AWS Machine Learning - Specialty, AWS Cloud Practitioner