

# MADELINE LIN

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## 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 with AUM ranging from \$17B to \$51B within PE, mutual funds, hedge funds, and other asset management industries, facilitated optimized financial decision-making through in-depth quantitative analysis of intercompany transactions
  - Performed 45+ comprehensive interest rate and debt capacity analyses for blocker and land banking borrower intercompany loans in real estate investment funding, leveraged financial models to benchmark LBOs and CLOs based on target IRR, and provided strategic investment advisory services to maximize financial efficiency
  - Conducted qualitative industry research to analyze the market trends, key challenges and opportunities, performed functions, risk, asset analyses, economic benchmark studies, 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
  - Contributed to the development of an econometric model to assess the quantitative impact of ESG activities on company's gross margin
  - Spearheaded the integration of data analytics 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: Portfolio Optimization & Risk Assessment - Personal Endeavor; New York NY** **Jan 2024 - Present**
- Engaged in interactive live sessions and pre-recorded videos to grasp fundamental concepts across various financial market topics
  - 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
- Machine Learning Analysis on Spotify Recommendation System - Individual Project; New York NY** **Feb 2023 - Apr 2023**
- Built an advanced stream prediction regression model utilizing track audio features such as danceability, energy, liveness, key, employed rigorous regression techniques through stepwise selection, and decision tree methodologies
  - Conducted an in-depth comparative analysis of machine learning algorithms, specifically Support Vector Regression and Feedforward Neural Network, to optimize Spotify's recommendation system for enhanced quantitative performance

## 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:** Python (Advanced), R (Advanced), SQL (Intermediate), Tableau (Advanced), PowerBI (Intermediate), Microsoft Suites (Advanced)  
**Databases:** S&P Capital IQ, Bloomberg, Moody's, Pitchbook, Morningstar  
**Certificates:** AWS Machine Learning - Specialty, AWS Cloud Practitioner, Deloitte Tableau Specialist, Deloitte GenAI Prompt Engineer