Roger Lin

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EDUCATION

University of Chicago Harris School of Public Policy   **GPA : 3.71**
Master of Public Policy | Finance and Policy Track   *September 2022 - June 2024*

Coursework Includes: Credit Markets; Fixed Income Asset Pricing; Financial Markets and Institutions; Financial Instruments; Advanced Microeconomics for Public Policy; Bank Regulation and Management; Corporate Finance; Financial Investments for Public Policy; Macroeconomic Policymaking; Statistics for Data Analysis; International Trade, Banking, and Capital Markets, Macro Finance

University of California, San Diego   **GPA** : **3.83**
Bachelor of Arts in Philosophy and Economics   *September 2018 - May 2022*

Coursework Includes: Advanced Econometrics; Development Economics; Economic Stabilization; International Monetary Relations; Linear Algebra; Micro and Macroeconomics; Monetary Economics; Multivariable Calculus

PROFESSIONAL EXPERIENCE

Becker Friedman Institute, University of Chicago   **Chicago, IL**
Research Professional   *June 2023 - Current*

- Undertook thorough examination of existing research on inflation-asset return dynamics, synthesizing findings from numerous publications and identifying specific gaps for future investigation.
- Compiled, refined, and analyzed over 50 years of historical data on inflation, stock market valuations, Treasury yields, and inflation expectations to explore the coevolution of inflation and returns on various asset classes.
- Replicated methodologies from earlier seminal works investigating relationship between asset returns and inflation using recent data.
- Analyzed market data for inflation swaps, nominal Treasuries, and TIPS to project future path of CPI and extract the market's forward implied inflation expectations.
- Prepared data visualizations and summaries of statistical tests to illustrate key research findings, enhancing clarity and impact of results. Composed additional materials for a research brief summarizing the study's key points, tailored for both an academic audience and policy stakeholders.

Bainbridge Strategic Consulting   **San Diego, CA**
Business Analyst Intern   *June 2021 - August 2021*

- Performed in-depth industry research and peer company assessments, leveraging Porter's Five Forces framework to extract actionable intelligence on the client's unique market position and potential growth avenues.
- Built dynamic financial models forecasting company performance under various growth scenarios, cross-referencing industry benchmarks to provide enhanced strategic recommendations.
- Conducted in-depth scenario analysis to assess possible outcomes across diverse market conditions, pinpointing key success drivers and potential pitfalls for thorough risk evaluation.
- Drafted detailed business plan detailing growth initiatives and operational enhancements, contributing to a 16% revenue uptick and a 12% rise in customer acquisition over two quarters.
- Consolidated research insights into a comprehensive presentation featuring data visualizations, quantifying a $50+ million opportunity in a new market segment primer for strategic entry.

JPMorgan Chase & Co. Quantitative Research Virtual Experience Program - Forage   December 2024

- Analyzed and modeled customer loan data to estimate the Probability of Default (PD), applying statistical techniques to guide loss provisions and risk assessment.

- Developed predictive models, including logistic regression and decision tree classifiers, to calculate PD for retail loans, achieving near-perfect ROC AUC scores in model evaluation.
- Designed and implemented dynamic programming algorithms to optimize the categorization of FICO scores, creating discrete buckets that maximized log-likelihood functions for accurate default prediction.
- Utilized Python and machine learning libraries (e.g., scikit-learn, NumPy, pandas) for data preprocessing, feature engineering, and model training, showcasing proficiency in data analysis and programming

LEADERSHIP & ACTIVITIES

International Strategic Crisis Negotiation Exercise (ISCNE)   **Chicago, IL**
Representative Leader of Indonesian and Russian Delegations   *January 2023 - January 2024*
- Led high-stakes diplomatic initiatives as head of delegation during crisis negotiation exercises on the South China Sea (2023) and the Arctic Circle (2024), hosted by the U.S. Army War College and the Pearson Institute for the Study and Resolution of Global Conflicts.

- Developed and implemented strategic frameworks to strengthen negotiating stances, engaging in bilateral and multilateral talks to enlist support from diverse nation-states.
- Designed and executed strategic negotiation frameworks, navigating complex geopolitical dynamics through bilateral and multilateral engagements to secure support from diverse nation-states.
    - During the South China Sea exercise, represented Team Indonesia, successfully fostering coalition unity under the ASEAN framework to manage territorial disputes among member states while presenting a unified regional stance in negotiations with China. Strengthened intra-ASEAN cooperation to minimize fractures in regional security and economic interests. Mediated over competing claims amongst ally nations to enforce coalition unity while working to advance shared objectives.

    - In the Arctic Circle exercise, led Team Russia, effectively maintaining the status quo while reinforcing Russian territorial claims. Strategically leveraged the diverging interests of American and European nations, preventing the formation of a cohesive multilateral coalition and sustaining Russia's strategic advantage in Arctic policymaking.

Triton Business Review | UC San Diego's Premier Undergraduate Business Journal   **San Diego, CA**
Founder and Editor-in-Chief   *September 2018 – June 2022*
- Founded and grew Triton Business Review into the premier undergraduate business publication at UC San Diego
- Led recruitment initiatives and social media strategy, boosting awareness and increasing writer and editor headcount by 140% over four years
- Streamlined end-to-end publication process, reducing turnaround by 20% while maintaining consistent weekly publication schedule by introducing editorial board and peer review process
- Spearheaded data analytics integration, implementing dashboard tracking reader engagement metrics and trending topics, driving improvements in content relevance and overall viewership.
- Launched digital-first strategy, creating mobile-responsive website and newsletter reaching 8,000+ subscribers with over 40% average open rate
- Secured $15,000 in overall funding through strategic partnerships with student organizations, reader donations, and successful pitches to academic departments and college councils, while reducing reliance on one-time grants from 80% to 30% of budget
- Applied research and analysis skills to evaluate near and long-term ramifications of global events. Published 12+ analytical articles communicating complex insights in clear and engaging manner on Triton Business Review's Medium page: https://medium.com/triton-business-review. Here are a few of the articles I've personally written:
    - Analysis of the factors contributing to Japan's Lost Decade, the development of the Abenomics policy framework, and its effectiveness in addressing the country's deep-rooted economic challenges
    - Assessment of US-China trade war implications for global supply chains and Asian economies
    - Investigation of China's economic growth patterns, debt dynamics, and structural transformation

- Coverage of panda diplomacy as a tool of Chinese soft power and economic cooperation
- Analysis of Asian economic resilience and regional cooperation during COVID-19 crisis

TECHNICAL SKILLS

Technical Skills: Quantitative Finance, Credit Research, Financial Analysis and Valuation, Modeling, Fixed Income Asset Pricing, Relative Value Trading, Derivatives Pricing, R, Python (numpy, pandas, sympy, scikit-learn), Microsoft Office, Data Analysis, Data Visualization, Research

Languages: English (native fluency), Mandarin (native fluency), Spanish (conversational fluency)

Hobbies: Photography, Traveling, Reading, Self-learning Software Development, Afternoon Tea-Time, Searching for the perfect Full English Breakfast