

# LEPENG (JOY) WU

Chicago, IL 773-707-1590 lepengw@uchicago.edu linkedin.com/in/lepengwu2023/

## EDUCATION

<b>Harris School of Public Policy, University of Chicago</b>	Chicago, IL, USA
Master of Public Policy, Specialization in Finance & Data Analytics (STEM-Designated)	June 2025 (Expected)
<b>University of International Business and Economics</b>	Beijing, China
Bachelor of Economics, Concentration in Quantitative Economics	June 2023
<b>ACCA Diploma in Accounting and Business</b>	UK
RQF Level 4 (Financial Accounting, Taxation, Business Law and Performance Management)	June 2023
Relevant Coursework: Machine Learning, Time Series, Casual Inference, Program Evaluation, Statistics for Data Analysis	

## QUANTITATIVE ANALYTICS

<b>U.S. Treasury Yield Curve, University of Chicago</b>	Chicago, IL, USA
Research Assistant, Dr. Thomas Coleman	January 2024 - Now
<ul style="list-style-type: none"><li>Contributed to an empirical study updating Coleman, Ibbotson, and Fisher’s research, improving U.S. Treasury forward curve estimation and market dynamics analysis through <b>Git-managed workflows, web scraping, and data preprocessing</b>.</li><li>Designed and optimized hybrid <b>Python-Fortran</b> modeling pipelines, enabling efficient cross-language computation for large-scale financial simulations, integrating <b>Portfolioer and Timer</b> for performance tuning.</li><li>Developed and implemented four distinct <b>curve fitting algorithms</b>, leveraging <b>numerical optimization, option modeling, and tax-adjusted spreads</b> to enhance model accuracy and reproducibility.</li></ul>	
<b>University of International Business and Economics</b>	Beijing, China
Quantitative Research Fellow	April 2021 - June 2023
<ul style="list-style-type: none"><li>Applied <b>quantile regression and matrix decomposition</b> to analyze global value chains' impact on carbon emissions, integrating large-scale datasets and statistical modeling to support sustainability policies.</li><li>Conducted a 15-year longitudinal study on patent citation trends, using <b>multi-regional time-series analysis</b> and <b>interactive visualizations (Shiny, R)</b> to identify disparities in IP financing.</li></ul>	

## DATA-DRIVEN INVESTMENT & APPLIED ANALYTICS

<b>Municipal Finance Lab, University of Chicago</b>	Chicago, IL, USA
Policy Consultant	January 2025 - Now
<ul style="list-style-type: none"><li>Optimized pension fund asset allocation and consolidation using <b>visualization, quantitative risk analysis and investment simulations</b>, reducing costs and improving long-term stability.</li><li>Built <b>predictive models to evaluate debt structures and volatility</b>, leveraging Python, SQL, and statistical analysis for municipal finance policy.</li><li>Translated complex <b>financial data</b> into actionable insights for <b>policymakers and institutional clients</b>, enhancing fiscal sustainability strategies.</li></ul>	
<b>CFA Challenge, Gold Prize &amp; Investment Intern, Guomin Pension &amp; Insurance Co. Ltd.</b>	Beijing, China
Quantitative Research Analyst - Asset Management	May 2024 - August 2024
<ul style="list-style-type: none"><li>Engineered a data-driven investment strategy using <b>Monte Carlo simulations, Python-based machine learning, and backtesting</b> to optimize portfolio efficiency.</li><li>Built <b>quantitative models</b> for REITs (Real Estate Trusts) valuation, incorporating <b>ESG, hydropower, and energy analysis</b>, while applying <b>cash flow and credit risk modeling</b> to assess liquidity, duration, and risk-adjusted returns for asset allocation.</li><li>Selected from <b>3,659</b> candidates and speak at a <b>government press conference</b> and present fixed income insights to institutional investors, showcasing industry expertise and cross-cultural communication.</li></ul>	
<b>Intern, Baoxun Rongtong Technology</b>	Beijing and Chengdu, China
Product Analyst – Cloud Data & Analytics	April 2022 - July 2022
<ul style="list-style-type: none"><li>Optimized <b>large-scale cloud-integrated databases</b>, designing <b>scalable relational schemas</b> for 8,000+ livestream and e-commerce transactions. Developed <b>automated ETL workflows</b> using Python to improve real-time market insights and operational efficiency.</li><li><b>Implemented SAP S/4HANA data migration strategies</b>, streamlining data pipelines for real-time livestock and vaccine tracking.</li><li>Conducted quantitative analysis on futures market data, generating predictive insights to optimize <b>supply chain</b> decisions.</li></ul>	

## SKILLS & CERTIFICATES

- Technical Skills: Python, Github, R, Fortran, C++, Stata, SPSS, SAP S/4 HANA
- Languages: Chinese (Native), English (Fluent), and French (Intermediate)
- Association: China Golf Association (Referee), IML Walking Association (China Delegate)