

NOVEMBER 2025

RESUME BOOK

INTERNSHIP CANDIDATES

MATHEMATICS IN FINANCE

Master of Science Program

DEAR COLLEAGUE,

We are pleased to share with you the resumes of the graduate students in NYU Courant's *M.S. in Mathematics in Finance* who are on the job market and looking for summer internships.

We believe our students are the most astute, most capable, and best trained group of students of any program. The resumes you find in this resume book describe their distinguished backgrounds. For the past years we have one of the highest placement records for internships and full-time positions. Our students enter into front office roles such as trading, portfolio or risk management, on the buy and the sell side. Their computing, quantitative modeling, and machine learning skills, as well as their hands-on practical experience, makes them productive from day one.

Our graduate-level curriculum is dynamic and challenging. For example, the first semester investment course does not end with CAPM and APT, but is a serious data- driven course that examines the statistical principles and practical pitfalls of covariance matrix estimation and portfolio construction. As part of our core curriculum, students learn the modern tools of computer science, machine learning and data science as they are used in the financial industry today. Our advanced electives cover cutting-edge topics in alternative data, algorithmic trading, computational statistics, derivatives pricing, financial machine learning, risk and portfolio management, and XVA. Our instructors are senior industry professionals and full-time faculty from NYU Courant, the top ranked department worldwide in applied mathematics. You can find more information about our curriculum and faculty at math-finance.cims.nyu.edu.

Sincerely yours,

Petter Kolm
DIRECTOR

Leif Anderson
INDUSTRY ADVISOR

THE CURRICULUM HAS FOUR MAIN COMPONENTS

For more information about the program curriculum and course descriptions, visit math-finance.cims.nyu.edu/academics/

01. FINANCIAL THEORY, STATISTICS, AND FINANCIAL DATA SCIENCE

These courses form the core of the program, covering topics ranging from equilibrium theory, Black-Scholes, Heath-Jarrow- Morton, linear regressions, covariance matrix estimation to modern machine learning techniques and how they are used in quantitative finance.

02. PRACTICAL FINANCIAL APPLICATIONS

These classes are taught by industry specialists from prominent Wall Street firms. They emphasize the practical aspects of quantitative finance, drawing on the instructor's subject matter experience and expertise.

03. MATHEMATICAL TOOLS

This component provides appropriate mathematical background in areas like stochastic calculus and partial differential equations.

04. COMPUTATIONAL SKILLS

These classes provide students with a broad range of software skills in Java and Python, and facility with computational methods such as optimization, Monte Carlo simulation, EM-type algorithms and the numerical solution of partial differential equations.

PRACTICAL TRAINING

In addition to coursework, the program emphasizes practical experience. All students do a capstone project (the Project and Presentation course), mentored by finance professionals. Most full-time students do internships during the summer between their second and third semesters.

KEVIN STEVE BELTRAN CLAVIJO

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: Python OOP, high-frequency systems, risk-neutral valuation, option pricing, arbitrage pricing theory, risk management, portfolio optimization, financial econometrics	New York, NY
08/15 - 05/20	LA SALLE UNIVERSITY B.S. in Economics <ul style="list-style-type: none">• Coursework: capital markets, time series analysis, economic growth, financial mathematics• Honors/Awards: Full scholarship (<i>Ser Pilo Paga</i>), 3rd place - University Economics Olympiad 2018, ranked 2nd out of 42 in graduating class	Bogotá, Colombia

EXPERIENCE

06/21 - 08/25	DAVIVIENDA BANK (Leading Colombian financial institution, \$47B AUM)	Bogotá, Colombia
04/23-08/25	Quantitative Research Lead - Financial Risk & AI Solutions (Python, Google Cloud Platform) <ul style="list-style-type: none">• Developed multiprocessing cloud-based software to manage IRRBB for \$1.7B portfolio• Built real-time, cloud-based software for collection process, using hyperparameter optimization ML/DL, generating \$30M in savings from \$60K investment (462x return)• Led team of 4 on projects in KYC automation, marketing with rule-based engines, and credit evaluation using OCR and LLMs, presenting results to CRO• Gained cross-functional exposure across software, operations, risk, and strategy	
07/22-04/23	Quantitative Research - Financial Risk & AI Solutions (Python, Google Cloud Platform) <ul style="list-style-type: none">• Designed knowledge database on GCP to handle structured and unstructured documents, serving as backend for AI agents supporting internal and external communications• Standardized extraction and integration of public data sources as reusable data services, enabling scalable use in risk analytics	
12/21-07/22	Data Scientist - Model Validation (Dataiku) <ul style="list-style-type: none">• Evaluated and validated machine learning models for key applications in credit scoring, fraud detection, and advanced business analytics• Conducted applied research and implemented data science methodologies for ML explainability to support bank's evolving analytics strategy	
06/21-12/21	Data Scientist - Analyst (AppScript) <ul style="list-style-type: none">• Designed and deployed internal web applications using Google Workspace and Python, improving decision-making processes across multiple business units	

PROJECTS

08/24 - 08/25	DAVIVIENDA BANK Economic Valuation Engine (Python, Google Cloud Platform) <ul style="list-style-type: none">• Formulated long-term integration plan combining credit risk, market risk, and IRRBB for bank's enterprise risk management framework	Bogotá, Colombia
06/23 - 05/24	Davinegociador 2.0 (Python, Google Cloud Platform) <ul style="list-style-type: none">• Led development of back-end and front-end for newest collections management platform• Identified and exposed critical risk in mortgage strategy under updated collections process framework	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, C++, JavaScript, SQL

Languages: English (fluent), Spanish (native)

Affiliations/Certifications: C++ Programming for Financial Engineering from QUANTNET; Financial Market Analysis from IMF; Financial Management, Applied Data Science, and Machine Learning from Coursera

SARAN (BLURI) BODDULURI

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: financial markets, risk and portfolio management, data science and data-driven modeling, stochastic calculus	New York, NY
08/20 - 05/24	SHIV NADAR UNIVERSITY B. Tech in Computer Science and Engineering <ul style="list-style-type: none">• Coursework: multivariable calculus, differential equations, linear algebra, data structures and algorithms, probability and statistics, AI, database systems, ML, discrete time finance• Honors/Awards: Graduated with High Distinction, Dean's List (7 semesters)	Greater Noida, India

EXPERIENCE

06/24 - 06/25	PL CAPITAL Quantitative Analyst (Python, SQL) <ul style="list-style-type: none">• Developed factor enhancements using XGBoost-based technical signals, macro trend filters, and size deciles, improving post-cost CAGR by 2.5% and reducing max drawdown by 20%• Built high-frequency futures and options scripts with Python multithreading and Polars, making data processing 10 times faster compared to Pandas workflows• Engineered automated reporting module integrating transcription services, AWS, and OpenAI API to generate quarterly reports, with 80% reduction in processing time	Mumbai, India
05/23 - 08/23	TRUE BEACON Quantitative Analyst Intern (Python, SQL, GCP) <ul style="list-style-type: none">• Constructed Sparse Index tracking portfolios for Nifty 50 and Nifty Bank using Convex Optimization, achieving 126.58% return over 10 years through rigorous backtesting• Engineered custom data pipelines integrating BQL, PostgreSQL, and PDF extractors, automating daily Debt PnL calculations and saving more than 400 minutes monthly• Designed and backtested cross-border arbitrage strategies between Nifty Futures and NSEIX, generating 1.97% post-cost 6-month return	Bengaluru, India
12/22 - 05/23	INDIAN INSTITUTE OF MANAGEMENT BANGALORE Research Intern (Python) <ul style="list-style-type: none">• Automated extraction and processing of more than 275,000 tweets and 55,000 images related to S&P 500 companies, using Python for comprehensive market sentiment analysis• Processed text, links, images, and PDFs from 13 years of BSE500 companies' CSR pages	Bengaluru, India
06/22 - 07/22	NATIONAL UNIVERSITY OF SINGAPORE Summer Abroad Intern (Python) <ul style="list-style-type: none">• Developed violence detection system using CCTV footage with CNN feature extraction and LSTM temporal classification, achieving 73.33% accuracy	Singapore, Singapore

PUBLICATIONS

08/23 - 04/24	SHIV NADAR UNIVERSITY UnSeGArmaNet: Unsupervised Image Segmentation Research <ul style="list-style-type: none">• Developed state-of-the-art unsupervised image segmentation framework; published research for Proceedings of the 35th British Machine Vision Conference 2024, Glasgow, UK	Greater Noida, India
08/21 - 11/22	Primary Market Conditions and Technical Analysis <ul style="list-style-type: none">• Implemented technical indicators, ARIMA, and Markov models to detect regimes in IPO Market; published research for Proceedings of the 9th PAN IIM World Management Conference 2023	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, C++, MySQL, R, SWI-Prolog, HTML, CSS, ReactJS, MS Office

Technical Skills: Pandas, Polars, Statsmodels, Sklearn, TensorFlow, PyTorch, Tableau, GCP, AWS, Git

Languages: English (fluent), Telugu (fluent), Hindi (intermediate)

RUNCHEN CHAI

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
09/21 - 06/25	WUHAN UNIVERSITY B.E. in Finance, B.S. in Mathematics and Applied Mathematics	Wuhan, China

Coursework: decision trees, linear regression, Fama-French, Black-Scholes, stochastic processes, risk and portfolio management, machine learning, dynamic asset pricing, financial securities and markets, computational statistics

Honors: 2021 and 2022 Outstanding Student (top 5%), Honorary Graduate of Hongyi Institute, Second Prize in National Mathematics Competition for College Students of China

EXPERIENCE

07/24 - 10/24	CHINA MERCHANTS SECURITIES Quantitative Research Intern (Python, R)	Shanghai, China
06/23 - 08/23	TREND CONSULTING (A leading Chinese management consulting firm focusing on healthcare) Intern in Research/Investment/Data Analysis (Python)	Shanghai, China

Coursework: corporate finance, econometrics, investment, linear algebra, ordinary differential equations, numeric analysis, Bayesian statistics, law of large numbers, calculus

Honors: 2021 and 2022 Outstanding Student (top 5%), Honorary Graduate of Hongyi Institute, Second Prize in National Mathematics Competition for College Students of China

PROJECTS

01/23 - 03/23	LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE Research on Option Pricing and Quantitative Change Based on Monte Carlo (Python)	London, UK (Remote)
11/22 - 12/22	WUHAN UNIVERSITY Cryptocurrency Momentum Strategy Project (Python)	Wuhan, China
	Coursework: decision trees, linear regression, Fama-French, Black-Scholes, stochastic processes, risk and portfolio management, machine learning, dynamic asset pricing, financial securities and markets, computational statistics	

Coursework: corporate finance, econometrics, investment, linear algebra, ordinary differential equations, numeric analysis, Bayesian statistics, law of large numbers, calculus

Honors: 2021 and 2022 Outstanding Student (top 5%), Honorary Graduate of Hongyi Institute, Second Prize in National Mathematics Competition for College Students of China

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, MATLAB, SQL, Stata, R

Languages: English (fluent); Mandarin (native)

Affiliation/Certification: Financial Risk Manager (FRM) Part I Passed

SICHUANG (GERALD) CHAI

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY M.S. in Mathematics in Finance	New York, NY
09/22 - 06/25	UNIVERSITY OF WARWICK B.Sc (Hons) in Mathematics	Coventry, UK

EXPERIENCE

07/25 - Present	INNOVATION AI Quantitative Research Intern (Python)	San Jose, CA
07/23 - 09/23	DAHUA XIN'AN ASSET Summer Analyst	Shenzhen, China

Quantitative Research Intern (Python)

- Built Python-based data pipeline to collect, clean, normalize, and store 15K macroeconomic and sector ETF time series in SQLite, enabling efficient access for strategy development
- Engineered ML models (random forest, XGBoost) to predict relative sector returns using technical indicators (e.g., RSI, MACD), optimizing hyperparameters via cross-validation
- Designed sector rotation strategy combining model-predicted rankings and Sharpe ratio filtering; integrated mean-variance optimization for risk-controlled allocation
- Constructed full backtest engine with turnover tracking, drawdown statistics, and regime-aware signal performance evaluation, demonstrating outperformance over passive benchmarks

Summer Analyst

- Enhanced equity research by integrating sector-level financial KPIs, macroeconomic indicators, and sentiment data into Excel- and Python-based DCF valuation models for consumer sector
- Conducted cross-market macro analysis of Japan vs. China, using time series of GDP, CPI, and sectoral returns; visualized trends via Tableau and Python (Matplotlib/Seaborn)
- Delivered actionable investment proposals supported by factor-based peer comparisons and scenario testing, aligning top-down research insights with portfolio strategy discussions

PROJECTS

07/24 - 09/24	Equity Trading Strategy and Backtest using LLM (Python)	Coventry, UK
01/24 - 05/24	Option Pricing using Stochastic and Monte Carlo Simulation (Python)	Coventry, UK

Equity Trading Strategy and Backtest using LLM (Python)

- Built web-scraping pipeline to collect earnings calls and macro news, fine-tuned FinBERT model on labeled financial texts to extract firm- and sector-level sentiment factors
- Constructed daily sentiment scores as inputs to mean-reversion and momentum strategies, achieving 0.24 Sharpe ratio uplift during backtests with dynamic volatility-adjusted sizing
- Assessed regime sensitivity and robustness across sectors; validated signal orthogonality via cross-sectional regressions, and performed stress testing to ensure factor robustness

Option Pricing using Stochastic and Monte Carlo Simulation (Python)

- Authored research essay on stochastic models in financial mathematics, deriving Black-Scholes PDE via Ito's Lemma and risk-neutral pricing framework
- Modeled BTC options using geometric Brownian motion and implemented Monte Carlo simulations to compute Greeks (delta, gamma, vega)
- Analyzed gamma scalping for dynamic hedging, evaluating trade P&L across skewed volatility surfaces and quantifying rebalancing frequency and execution risk under real-time market

COMPUTATIONAL SKILLS / OTHER

Languages: English (fluent), Mandarin (Native)

Programming Languages: Python, MySQL, VBA, Advanced Excel Functions

Modeling: Regression, Time Series, Monte Carlo Simulation, Machine Learning, Optimization

Finance: Option Pricing, Financial Risk Management, Backtesting

ZUO CHEN

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: risk and portfolio management, stochastic calculus, dynamic asset pricing, machine learning and computational statistics	New York, NY
08/21 - 05/25	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN B.S. in Computer Science & Mathematics <ul style="list-style-type: none">• Coursework: probability and statistics, linear algebra, algorithms, differential equations, machine learning, real analysis, numerical methods, graph theory, data structures, system programming• Honors/Awards: Highest Distinction MATH/CS, Dean's list	Champaign, IL

EXPERIENCE

06/25 - 08/25	LATIO (AI-powered efficiency tools startup) Software Engineer Intern (Python, TypeScript) <ul style="list-style-type: none">• Designed and implemented multi-channel payment system, integrating both Stripe and WeChat Pay APIs to support subscriptions across different user segments• Engineered robust server-side logic and webhook handlers to process payments and manage user subscriptions, securely handling more than 500 transactions in first month of launch• Developed fully automated and scalable content generation pipeline using Python and Next.js to transform curated podcast lists into structured, SEO-driven blog pages• Deployed the system to generate more than 1,000 unique pages for popular podcast episodes, cutting manual workload by 90% and boosting content throughput 5x• Contributed to 10x increase in indexed pages and 80% uplift in organic traffic by publishing high-volume, SEO-optimized content at scale	Beijing, China
06/24 - 08/24	CAPGO.AI (Programmatic SEO startup) Generative AI Intern (Python, JavaScript) <ul style="list-style-type: none">• Developed Google Sheets chatbot that converts natural-language requests into fully formatted spreadsheets, auto-building tables and financial models; slashes manual prep time by 90%• Built Next.js chat interface that auto-generates and deploys fully functional, general-purpose websites via AI-written code and images within 3 min, cutting dev turnaround 85%• Designed and refined comprehensive prompt frameworks that produce executable, visually polished webpages / spreadsheets, reducing post-edit time by 70% and keeping failures under 1%• Integrated spreadsheet chatbot and web generator into client-facing SaaS—launch hit #2 Product of the Day on Product Hunt• Optimized generative-AI pipelines for programmatic SEO and market research; scaled content production 4x and boosted research throughput 3x	Beijing, China

PROJECT

02/25 - 04/25	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN Stocks Similarity Analysis for Statistical Arbitrage and Portfolio Construction (Python) <ul style="list-style-type: none">• Developed two-stage pipeline to identify statistically meaningful relationships between stocks by combining large language model (LLM) reasoning with time series analysis• Used LLMs to pre-filter fundamentally similar stock pairs (e.g., sector, model), then applied time series techniques to identify potentially cointegrated pairs with stable mean-reverting behavior• Designed framework to support downstream applications such as statistical arbitrage (pair trading), basket construction, and diversified portfolio optimization	Champaign, IL
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COMPUTATIONAL SKILLS / OTHER

Programming Languages: C++, C, Python, Java, TypeScript, JavaScript
Languages: English (fluent), Mandarin (native)

QIYUAN (ELIVIA) CONG

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
06/24	NEW YORK UNIVERSITY B.A. in Mathematics	New York, NY

EXPERIENCE

03/24 - 07/25	WUYIGE CERTIFIED PUBLIC ACCOUNTANTS LLP Assistant Auditor (Dinstar)	Shanghai, China
07/23 - 09/23	NEWDO VENTURE Investment Assistant Intern	Shanghai, China (Remote)
08/22 - 09/22	WISDO MONT CAPITAL Industry Analyst Intern (Python)	Shanghai, China

PROJECTS

01/23 - 03/23	NORTH CAROLINA STATE UNIVERSITY Using CAPM for Pricing Risky Securities (Python)	North Carolina (Remote)
09/22 - 12/22	NEW YORK UNIVERSITY Numerical Analysis (Python, MATLAB)	New York, NY

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, Java, MATLAB, LaTeX

Languages: English (fluent); Mandarin (native)

JIAYI DING

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: risk and portfolio management, dynamic asset pricing	New York, NY
09/21 - 07/25	PEKING UNIVERSITY B.S. in Mathematics <ul style="list-style-type: none">• Coursework: linear algebra and calculus, probability and statistics, financial mathematics, stochastic process, data structure and algorithms (Python)• Honors/Awards: Yizheng Scholarship (2022)• Thesis: “Financial News-Driven Stock Return Prediction Utilizing Sentence Embedding Generated by Large Language Models”	Beijing, China

EXPERIENCE

06/24 - 11/24	LASSO QUANT ASSET MANAGEMENT CO., LTD. (Private fund with approximately \$1B AUM) Quantitative Research Intern (Python) <ul style="list-style-type: none">• Mined high-frequency factors in Chinese A-share market by analyzing tick-level order book data and applying statistical tests to identify predictive signals, contributing to the firm's factor library• Generated order-book factors, achieving correlation greater than 0.13 with 30s forward returns• Achieved correlation greater than 0.05 with 300s forward returns by generating cross-sectional factors	Beijing, China
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PROJECTS

06/25 - 07/25	KAGGLE COMPETITION Crypto Market Prediction (Python) <ul style="list-style-type: none">• Developed model capable of predicting short-term crypto future price movements using anonymous production data• Achieved 0.12 correlation between predicted values and labels	Beijing, China
01/24 - 03/25	UNIVERSITY OF CHICAGO BOOTH SCHOOL OF BUSINESS Research on Financial News (Python) <ul style="list-style-type: none">• Used large language models (e.g., Llama) to generate sentence embeddings from news articles, enabling numerical representation of financial text• Leveraged sentence embeddings derived from individual stock news to predict stock returns• Achieved 0.22 correlation between prediction and returns	Beijing, China
07/23 - 01/24	TSINGHUA UNIVERSITY Mining Factors Using the OpenFE Framework (Python) <ul style="list-style-type: none">• Reviewed and implemented prior alpha mining methods, and collaborated in generating new alphas using OpenFE framework• Generated daily-frequency factors that achieved correlation greater than 0.04 with next day's return• Constructed stock portfolio and evaluated effectiveness of alphas that were generated	Beijing, China

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, MATLAB

Languages: English (fluent); Mandarin (native)

Activities: Led Calculus and Linear Algebra Q&A seminars at Peking University

Honors: Silver Medal, 36th Chinese Mathematics Olympiad (2020)

ANA LAURA GARCÍA RIVERA

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: stochastic calculus for finance, risk and portfolio management, financial securities and markets, computing in finance	New York, NY
08/16 - 12/21	INSTITUTO TECNOLÓGICO AUTÓNOMO DE MÉXICO (ITAM) B.S. in Applied Mathematics <ul style="list-style-type: none">• Coursework: multivariable calculus, linear algebra, probability and statistics, data structures• Thesis: "Clustering Financial Time Series: An Application to FX Markets"• Honors: Awarded "Special Distinction" for thesis during formal dissertation exam	Mexico City, Mexico

EXPERIENCE

02/23 - 07/25	BANCO BILBAO VIZCAYA ARGENTARIA, BBVA (#1 Mexican financial services firm) Data Scientist Associate (Python, Pyspark) <ul style="list-style-type: none">• Engineered and deployed 3 production-grade ML systems that optimized credit risk, client retention, and investment strategies, directly shaping high-stakes business decisions• Designed financial health scoring framework adopted firm-wide for client segmentation, and later codified into BBVA's internal methodology publications• Co-developed churn prediction engine that flagged at-risk clients up to 6 months early, enabling precision campaigns that reduced attrition by 1.3%• Designed model to identify investment fund eligible clients, powering campaign that attracted 2K new clients• Synthesized complex model outputs into actionable insights and visual dashboards that guided executive decision-making	Mexico City, Mexico
12/20 - 01/23	AFORE PROFUTURO (Mexican pension fund; 8M clients; \$63B AUM) FX, Fixed Income and Credit Analyst (R, SQL) <ul style="list-style-type: none">• Increased annualized alpha by 24 bps using topic modeling to extract signals from research reports• Automated fixed income and FX reporting pipelines, cutting delivery times from hours to minutes and enhancing real-time decision-making• Built interactive dashboards that senior portfolio managers use daily to guide investment decisions• Leveraged Bloomberg and Eikon Reuters data to engineer features and conduct hierarchical clustering in R, enhancing FX market analysis and business-as-usual deliverables	Mexico City, Mexico
01/20 - 12/20	FINANCIAL GROUP BANORTE (Second largest financial group in Mexico; 12M clients) Credit Risk Intern (R) <ul style="list-style-type: none">• Explored alternative LGD estimation techniques and analyzed portfolio risk using statistical models• Migrated 5K lines of SAS code to R, improving code maintainability and reducing processing time for risk simulations	Mexico City, Mexico

PROJECT

04/22 - 10/22	AFORE PROFUTURO (R) <ul style="list-style-type: none">• Conducted original research on FX return time series, implementing hierarchical clustering with advanced dissimilarity measures such as generalized correlation to study market dynamics.	Mexico City, Mexico
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COMPUTATIONAL SKILLS / OTHER

Programming Languages: R, Python, Pyspark, SQL, LaTex, MATLAB

Languages: English (fluent), Spanish (native)

LINDA GENTILI

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
09/19 - 03/22	LUISS GUIDO CARLI UNIVERSITY M.S. in Finance	Rome, Italy
09/16 - 07/19	B.S. in Economics and Management • Honors/Awards: Laude (highest academic distinction in Italy)	

EXPERIENCE

	BANCA PROFILO	Milan, Italy
05/23 - 09/25	Portfolio Manager (Collective Funds and AI Strategy Division) (Python) <ul style="list-style-type: none">Managed \$30MM AUM credit arbitrage and relative value fund for professional investorsExecuted trades across fixed-income and credit markets, including strategies on inflation breakevens, swap spreads, negative bond-CDS basis, and credit index skewBuilt Python tools for live monitoring of inflation-linked relative value (real yields, breakevens, iota); forecasted Bund–swap spreads; estimated asset-class VaR via FHS and DCC correlations	
07/22 - 05/23	Assistant Portfolio Manager (Collective Funds and AI Strategy Division) (Python) <ul style="list-style-type: none">Supported daily operations of 2 alternative investment funds (credit arbitrage and relative value, long-short equity) with verified Bloomberg track records and total AUM of \$60MMManaged repo financing, securities lending, and rolling of bonds, equity, and FX futuresPerformed portfolio reconciliations, trade booking checks, and risk/performance monitoring	
09/20 - 02/22	ROTMAN INTERNATIONAL TRADING COMPETITION Team Leader (2022), Team Member (2021) (Python) <ul style="list-style-type: none">Led 4-person LUISS University team in developing trading strategies for simulated marketsRanked 4th out of 45 universities worldwide, outperforming teams like Harvard and FordhamFocused on algorithmic trading case, using Python API integration (via requests)	Toronto, Canada

PROJECTS

03/24; 11/23	BOCCONI UNIVERSITY and LUISS GUIDO CARLI UNIVERSITY Guest Lecturer: Trading Strategies in Forex and Credit Markets	Milan and Rome, Italy
03/22	LUISS GUIDO CARLI UNIVERSITY Honors Thesis: DL for Asset Managers: Drivers that Move Ferrari on Wall Street (Python)	Rome, Italy

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, MATLAB, R, VBA

Languages: English (fluent), Italian (native)

Affiliation/Certification: Invited as professional counterparty client to Goldman Sachs seminars in London on Foreign Exchange Derivatives (2023) and Interest Rate Derivatives (2023), taught by senior traders and academics

Interests: Rhythmic Gymnastics (10 years, ranked 3rd in Italian National Twirling Solo)

SHAN GUAN

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Coursework: computing in finance (Python), stochastic processes, machine learning, derivatives pricing, portfolio optimization, risk management	New York, NY
09/20 - 06/24	CENTRAL UNIVERSITY OF FINANCE AND ECONOMICS B.S. in Mathematics and Applied Mathematics <ul style="list-style-type: none">• Coursework: stochastic processes, data mining (Python), ODE, PDE, time series analysis, financial mathematics, microeconomics, macroeconomics, econometrics, C++• Honors/Awards: Academic Excellence Scholarship for 2 years (top 5% GPA), Comprehensive Development Scholarship	Beijing, China

EXPERIENCE

	FOUNDER SECURITIES Financial Engineering Research Group (Sell-side) Quantitative Research Intern (Python) <ul style="list-style-type: none">• Developed and backtested single-factor quantitative strategies for stock and fund selection using Python; built portfolios based on market cap, industry classification, and rebalancing frequencies• Simulated CSI A500 Index's pre-launch performance (2017-2024) based on its compilation methodology, comparing its risk-return profile with that of CSI 300 Index• Summarized macro market updates for client distribution; drafted review of public offering funds to create weekly newsletter posts	Beijing, China
08/24 - 11/24	Asset Management Division (Buy-side) Quantitative Research Intern (Python) <ul style="list-style-type: none">• Researched and implemented equity factors in institutional-survey and earnings-surprise domains, building end-to-end Python pipelines from raw data ingestion to factor computation• Constructed backtesting framework to evaluate factor efficacy, achieving 31.17% annualized excess return with 16.47% max drawdown in multi-factor portfolios• Enhanced prediction accuracy by implementing XGBoost for factor weighting	
07/23 - 10/23		

PROJECTS

09/23 - 01/24	CENTRAL UNIVERSITY OF FINANCE AND ECONOMICS Quantitative Analysis of Hit TV Series Determinants: LDA & Ordinal Regression (Python, R) <ul style="list-style-type: none">• Built Python web scraper to collect and preprocess more than 4,000 reviews (ratings plus text) from a leading Chinese media platform• Developed LDA model (coherence more than 0.5) identifying 4 key themes, with ordinal regression (R) quantifying theme-rating relationships (p less than 0.01)	Beijing, China
03/23 - 04/23	Empirical Analysis of Markowitz Portfolio Theory (Python) <ul style="list-style-type: none">• Designed and backtested Markowitz mean-variance portfolios on CSI 300 stocks with rolling 30-day estimates and year-long daily rebalancing; evaluated performance using Sharpe ratios• Compared results against equal-weighted and minimum-variance portfolios, and extended framework to incorporate risk-free assets and investor risk aversion	
05/22 - 06/22	Estimation of Return and Risk of Snowball Option (MATLAB) <ul style="list-style-type: none">• Constructed Monte Carlo simulation model in MATLAB for Snowball product analysis, generating 100,000 paths of reference index under Geometric Brownian Motion assumptions• Conducted comprehensive risk-return analysis, including probabilistic payoff distributions and downside risk exposure metrics	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, R, MATLAB, SQL, C++, EViews
Languages: English (fluent), Mandarin (native)

GUANGYU (DANIEL) HOU

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
09/21 – 06/25	NANKAI UNIVERSITY B.S. in Mathematics and Applied Mathematics	Tianjin, China

EXPERIENCE

06/25 - Present	ZHONGTAI SECURITIES Fintech Intern (Python)	Shanghai, China (Remote)
09/24 - 11/24	CHINA EVERBRIGHT BANK Data Asset Management Intern (Python)	Beijing, China
07/24 - 09/24	CHINA FUND MANAGEMENT CO., LTD Data Analyst and Quant Developer Intern (Python)	Beijing, China

PROJECTS

04/24 - 10/24	JOHNS HOPKINS UNIVERSITY Feasibility of Transfer Learning and MFG Model Adaptability	Baltimore, Maryland (Remote)
01/23 - 03/25	NANKAI UNIVERSITY New Media Marketing Strategy for Time-Honored Chinese Brands (Python)	Tianjin, China

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, C++

Languages: English (fluent), Mandarin (Native)

Activities: Exchange Student, UC Berkeley, advanced coursework in probability and stochastic processes; Vice Minister of Sports Department in Student Union of Nankai University

CHENYUE LANG

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EDUCATION

Expected 05/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Coursework: financial data science, machine learning, fixed income, algorithmic trading & quant strategy, interest rate and FX model, market microstructure, risk & portfolio management	New York, NY
09/21 - 05/25	NEW YORK UNIVERSITY B.A. in Economics and Mathematics <ul style="list-style-type: none">• Coursework: itô calculus, computational finance, securities & markets, FX & global macro, monetary economics, asset pricing, numerical methods, probability & statistics, data structures• Honors/Awards: Magna cum laude, Dean's Honors List, Phi Beta Kappa Honor Society, Presidential Honors Scholar, CAS Scholarship	New York, NY

EXPERIENCE

06/24 - 08/24	BRIDGE TRUST CO., LTD. Quantitative Investment Intern, Industrial Finance Department (Python) <ul style="list-style-type: none">• Built \$8.4M cross-border TRS delivering compliant overseas exposure for regulated PRC investors; coordinated on/offshore banks, SAC/ISDA, and leverage/margin risk• Valued 9 firms via DCF (FCFE/UFCF) using multi-stage models, WACC tuning, and sensitivities; created reconciler, improving cross-method accuracy/consistency by 15%• Structured \$1.62B trusts/quasi-REITs for energy SOE; executed DES/off-BS financing, optimized waterfalls, cutting debt 3-5% and lifting efficiency 13%, ensuring compliance• Analyzed profitability of project firms with equity-pledged trust collateral; applied DuPont (ROE/ROA/turnover) and cost-benefit reviews to assess asset quality, risk, and optimizations	Beijing, China
07/23 - 09/23	HARVEST FUND MANAGEMENT Financial Analyst Intern, Global Business Department (Python) <ul style="list-style-type: none">• Co-led cross-border deal execution bridging Chinese-English teams; ran due diligence on global institutions (including sovereign wealth funds) to inform investment theses and portfolio strategy• Managed \$4.90B portfolio; issued weekly Wind/market reads (MSCI/CSI/SSE; SOFR/OMO/UST) and mapped top holdings of more than 1,000 funds to optimize allocation• Authored equity memos from expert and financial analysis (fundamentals, moat, valuation, ownership); assessed credit risk of defaulting real-estate issuers	Beijing, China

PROJECTS

09/21 - 05/25	NYU COURANT - MATHEMATICAL MODELING WORKSHOP Quantitative Finance Research (Python, MATLAB) <ul style="list-style-type: none">• Implemented BSM analytics and FDM solvers (explicit/implicit/CN) with adaptive grids; computed full Greeks and executed delta-hedging to control option risk• Ran Monte Carlo for path-dependent options (Euler/Milstein) with antithetic and control variates; found Milstein with stratified sampling fastest; optimized hedges under transaction-cost models• Modeled multi-asset options with stochastic vol and jumps; used copulas for dependence/selection and built enhanced index portfolios, generating alpha	New York, NY
09/22 - 05/23	NYU CAS PRESIDENTIAL HONORS SCHOLAR SEMINAR Research Assistant - Artificial Intelligence Specialization (Java) <ul style="list-style-type: none">• Built LSTM and sentiment pipelines on prices, news, and research to forecast returns and regimes; deployed signals to optimize quantitative strategies• Built client segmentation with k-means and random forest; personalized portfolios by risk and validated via Rubin causal framework, yielding 14% higher participation, 35% higher amounts	New York, NY

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Java, C, C++, C#, Python, R, MATLAB, SQL
Languages: Mandarin (native); English (fluent)

SIJIA (SCARLETT) LI

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: computing in finance, financial securities and markets, risk & portfolio management, stochastic calculus and dynamic asset pricing	New York, NY
09/21 - 06/25	CENTRAL UNIVERSITY OF FINANCE AND ECONOMICS B.S. in Financial Engineering <ul style="list-style-type: none">• Coursework: stochastic process, ordinary differential equations, probability and statistics, algebra, calculus, operations research, econometrics, C++ programming• Honor: First-Class Scholarship (5%), 2nd Prize in Beijing Undergraduate Math Competition	Beijing, China

EXPERIENCE

07/25 - 04/25	SHANGHAI REDWALL TAIHE FUND MANAGEMENT CO., LTD. Strategy Research Intern (Python, C++) <ul style="list-style-type: none">• Processed Level-2 order book and trade data to develop minute-level stock alphas, including order imbalance and retail behavior factors• Enhanced genetic programming framework to generate alpha factors with information coefficients (ICs) exceeding 3; integrated and adjusted highly correlated factors into strategies• Boosted computational efficiency by restructuring code and applying performance-optimized tools such as Polars and Numba	Shanghai, China
10/24 - 03/25	CHINA INTERNATIONAL CAPITAL CORPORATION (CICC) (Top 4 Chinese Investment Bank) Quantitative Research Intern (Python, SQL) <ul style="list-style-type: none">• Developed minute-level alphas for stocks using Python and SQL; backtested strategy using 10-year historical data, achieving 0.02 increase in model's IC• Analyzed fund data to develop FOF products; tracked equity and CTA market indicators, and performed product risk and return attribution based on quantitative multi-factor models• Enhanced program efficiency by using C functions and multi-processing techniques	Beijing, China
06/24 - 09/24	SOUTHWEST SECURITIES Quantitative Research Intern (Python) <ul style="list-style-type: none">• Designed weekly adjusted stock and convertible bond alpha strategies using machine learning algorithms, yielding annual return of over 30%• Implemented strategies to capture yields from index volatilities in equity market• Monitored portfolio positions and fund performance metrics; drafted analytical reports	Beijing, China

PROJECTS

07/24 - 09/24	BEIJING INSTITUTE OF BIG DATA, PEKING UNIVERSITY Financial Large Language Model Development for Bank of China (BOC) <ul style="list-style-type: none">• Constructed multi-agent conversation patterns to predict macroeconomy and asset prices• Developed Q&A systems using retrieval-augmented generation (RAG) techniques, constructed an evaluation model to measure answer quality in aspects including hallucination and relevance	Beijing, China
07/23 - 05/24	CENTRAL UNIVERSITY OF FINANCE AND ECONOMICS Research on Machine Learning-based High-Frequency Quantitative Trading Strategies <ul style="list-style-type: none">• Built comprehensive trading factor library including liquidity, risk, and momentum; applied macroeconomic indicators and cross-asset trading data to construct alternative factors• Applied machine learning algorithms such as LightGBM and Catboost to develop strategies	Beijing, China

COMPUTATIONAL SKILLS / OTHER

Programming Languages: C++, Python, R, SQL, MATLAB
Languages: English (Fluent), Mandarin (Native), Cantonese (Native)

ANTONG (CHARLOTTE) LIU

(201) 736-3436 // charlotte.liu@nyu.edu // linkedin.com/in/antong-charlotte-liu

EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: object-oriented programming (Java), penalized regression, decision trees, linear regression, Fama-French, Black-Scholes, stochastic processes, Hull-White model	New York, NY
09/21 - 06/25	TSINGHUA UNIVERSITY B.S. in Mechanics and B.Eng. in Civil Engineering System <ul style="list-style-type: none">• Coursework: advanced linear algebra, ordinary differential equations, mathematical analysis, probability and stochastic process, time series, corporate finance, investment, econometrics• Thesis: "Higher-Order Interactions in Synthetic Technology" (with MIT professor)• Honors: Academic Excellence and Social Work Scholarships, summa cum laude (top 5%)	Beijing, China

EXPERIENCE

03/25 - 08/25	GUOTAI HAITONG SECURITIES Investment Banking Intern <ul style="list-style-type: none">• Prepared regulatory filings and coordinated responses to Securities Regulatory Commission• Conducted due diligence and drafted business, legal, and financial valuation papers for M&As• Supported communication and coordination with clients and financial/legal advisors throughout transaction processes and contributed to pitchbooks, prospectuses, and internal reports	Beijing, China
07/24 - 12/24	J.P. MORGAN Finance & Business Management Intern <ul style="list-style-type: none">• Updated financial reports based on global and Chinese business data such as payments, trade finance, market transactions, and tracked key indicators such as CIR, CAR, ROE• Conducted competitor analysis on asset allocation, profitability, and risk management; identified regional cost optimization opportunities; and orchestrated 2025 strategic roadmap	Beijing, China
03/24 - 05/24	MAXENTROPY QUANT Quantitative Trader Intern (Python) <ul style="list-style-type: none">• Analyzed logic of WorldQuant101 factors to design and implement trend, momentum, and reversal correlation factors; evaluated backtesting results; and deployed daily trading• Reproduced cutting-edge high-frequency quantitative futures trading strategy; optimized and iterated existing strategy algorithm	Beijing, China
09/23 - 01/24	CITIC SECURITIES Research Intern <ul style="list-style-type: none">• Evaluated performance of new energy vehicle companies using financial and industry analysis• Developed databases and authored independent, in-depth industry research reports	Beijing, China

PROJECTS

08/23 - 01/24	GLOBAL ALLIANCE OF UNIVERSITIES ON CLIMATE Climate x Leadership Training Program (Tableau) <ul style="list-style-type: none">• Expanded knowledge of global governance through in-depth conversations with industry experts• Organized multiple climate-focused seminars; drove dialogues engaging hundreds of participants	Vancouver, Canada
07/23 - 08/23	CHINA-ITALY DESIGN INNOVATION HUB Interdisciplinary Design Innovation Scholar <ul style="list-style-type: none">• Conducted field research on museum guide systems and urban spaces in Milan and Florence• Collaborated with government to develop renovation proposal for Italian-style area	Milan, Italy

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python (Pandas, Matplotlib, Numpy, Scipy), MATLAB, SQL, R, C++

Languages: English (fluent), Mandarin (native)

Certifications: National 2nd Prize in Business Translation and Writing, AIDA 2 Star Freediver

ARISTO LIU

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: computing in finance, financial securities and markets, stochastic calculus, risk and portfolio management	New York, NY
08/21 - 05/25	COLUMBIA UNIVERSITY B.A. in Mathematics and Astrophysics (Double Major) Minor: Computer Science <ul style="list-style-type: none">• Coursework: modern algebra, real analysis, probability theory, modeling, discrete math, data structures, machine learning, simulations, modern astrophysics, quantum mechanics, electricity and magnetism• Honors/Awards: Dean's List	New York, NY

EXPERIENCE

05/24 - 03/25	AMERICAN MUSEUM OF NATURAL HISTORY Undergraduate Student Researcher and Team Coordinator (Python) <ul style="list-style-type: none">• Analyzed large-scale galaxy simulations to study interstellar magnetic fields, employing data processing, visualization, and statistical modeling techniques• Organized and led team of NY undergraduate student researchers in collaboration with Stanford research group by coordinating meetings and delegating simulation and analysis tasks• Designed and presented research poster at 245th American Astronomical Society meeting (Jan 2025) for audience of astronomy professors and graduate students	New York, NY
08/22 - 09/23	COLUMBIA UNIVERSITY Undergraduate Student Researcher (Python) <ul style="list-style-type: none">• Developed custom Python tools to run and analyze simulations of black hole spin evolution, using numerical integration and data visualization techniques• Studied advanced simulation techniques and recent astrophysical literature• Refined prior estimates of black hole equilibrium spin by applying new computational methods and drafted research paper on results	New York, NY

PROJECTS

06/25 - Present	INDEPENDENT RESEARCH Algorithmic Trading Project (Python) <ul style="list-style-type: none">• Developed, backtested, and refined algorithmic trading strategy, achieving simulated annualized returns of 9%• Analyzed performance of trading strategy using graphs, Sharpe ratio, and volatility• Gained insight into limitations of backtested strategies	New York, NY
10/23 - 12/23	COLUMBIA UNIVERSITY N-Body Integrator (Python) <ul style="list-style-type: none">• Implemented IAS15 integrator, a 15th order integrator for gravitational dynamics• Conducted Monte Carlo simulations on varied initial conditions to study effect of stellar fly-bys on binary systems (N=3)• Wrote report on results, discussing methodology and physical implications	New York, NY

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, JavaScript, Java, LaTeX, Microsoft Excel

Languages: English (native), Mandarin (fluent), Spanish (conversational, passed Columbia University requirement)

Honors: FIDE Master Title (International Chess Federation), National Master (US Chess Federation), Pan-American Youth Chess Champion, World Amateur Team Championship: “Top College Team” Captain

Leadership: Columbia Chess Club President (06/22-05/24)

Other: US Citizen

SIQI LIU

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: portfolio management, stochastic calculus, dynamic asset pricing, machine learning, algorithmic trading, scientific computing	New York, NY
09/21 - 06/25	SHANGHAI JIAO TONG UNIVERSITY B.S. in Mathematics and Applied Mathematics, Minor in Accountancy <ul style="list-style-type: none">• Coursework: mathematical statistics, probability, stochastic process, time series analysis, mathematical finance, PDE, ODE, real analysis, C++, econometrics• Honors/Awards: Outstanding Graduate (top 10%), Academic Excellence Scholarship (top 20%)	Shanghai, China

EXPERIENCE

10/24 - 12/24	GUOLIAN FUTURES Quantitative Research Intern (Python) <ul style="list-style-type: none">• Developed asset rotation strategies with Python, optimizing returns from stock index futures, treasury bond futures, and commodity futures based on financial indicators• Created new timing indicators using PMI data and exchange rates to identify stagflation phases• Built robust backtesting system that incorporated slippage and transaction costs• Achieved backtested annual return of 19.9%, Sharpe ratio of 1.81, and max drawdown of 5%	Shanghai, China
07/24 - 09/24	HENTAI SECURITIES Quantitative Research Intern (Python, R) <ul style="list-style-type: none">• Constructed Barra CNE6 style factors and operated cross-sectional regressions to get factor return matrices and residual returns for performance analysis• Analyzed quarterly performance of stock portfolios, deriving 5.8% factor returns• Conducted regression analysis to evaluate effect of interest rate differentials on FX futures prices, finding that contracts with maturities over 6 months achieved higher R-squared values of 0.81• Analyzed daily stock market data with technical indicators and communicated with senior traders	Shanghai, China
01/24 - 03/24	ERNST & YOUNG HUA MING Audit Intern (Excel) <ul style="list-style-type: none">• Conducted credit risk audits of bank loan portfolios for client Cathay United Bank, analyzing borrower financials and key risk indicators to evaluate loan quality• Assessed risk of more than 80 wealth management products, identifying 4% as high risk	Shanghai, China

PROJECTS

11/24 - 05/25	SHANGHAI JIAO TONG UNIVERSITY Volatility-Managed Multi-Factor Strategy Research (Python) <ul style="list-style-type: none">• Incorporated realized, implied, and combined volatility measures to dynamically adjust factor exposures in multi-factor portfolio based on Fama-French five-factor model• Analyzed relationship between different volatility measures and optimal factor exposures across different skewness and volatility regimes in Hong Kong market• Demonstrated that combined volatility approach outperformed under varying market conditions, with Sharpe ratio of 1.91 and annualized alpha of 14.8%	Shanghai, China
09/23 - 12/23	Black-Scholes Option Pricing Model Research (Python) <ul style="list-style-type: none">• Solved Black-Scholes-Barenblatt equation with Python using forward and backward difference methods; achieved errors of less than 0.01% compared to solution from Black-Scholes model	Shanghai, China

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, C++, MATLAB, R, LaTeX, Origin

Languages: English (fluent), Mandarin (native)

Certification: Machine Learning from University of Washington on Coursera

YIHAN MAO

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
09/21-01/25	RUTGERS UNIVERSITY B.A. in Mathematics, Minor in Computer Science <ul style="list-style-type: none">• Expected Coursework: stochastic calculus, asset pricing theory, portfolio and risk management, financial markets and instruments, numerical methods, Python and C++ programming for finance, machine learning• Coursework: stochastic processes, probability and statistics, real analysis, multivariable calculus, linear algebra, linear programming, optimization methods, data structures and algorithms, programming in Python, C, and C++, numerical methods• Honors/Awards: Dean's List (All Semesters)	New Brunswick, NJ

EXPERIENCE

11/24-03/25	KEENSIGHT.ai AI Data Engineering Intern (Python) <ul style="list-style-type: none">• Automated translation of academic documents using PyMuPDF, python-docx, and Generative AI, increasing processing speed by 30%• Improved formatting consistency across multilingual outputs, reducing manual edits• Corrected OCR and structural errors in scanned PDFs to enhance data quality	Philadelphia, PA
06/24-08/24	EXPORT-IMPORT BANK OF CHINA Risk Management Intern (Python) <ul style="list-style-type: none">• Analyzed commodity prices (LME metals, crude oil) using WIND financial terminal and Python to identify volatility drivers• Modeled Q2 2024 iron and steel import trends to assess macro and policy risks	Beijing, China
07/23-09/23	TCL TECHNOLOGY Data Analysis Intern (Python) <ul style="list-style-type: none">• Built Python tools to classify more than 1,200 bug reports, reducing triage time by 50%	Shenzhen, China

PROJECTS

09/23-12/23	RUTGERS UNIVERSITY Linear Optimization Model Implementation <ul style="list-style-type: none">• Implemented Simplex, Dual Simplex, and Two-Phase methods to solve matrix-based linear programming problems• Performed sensitivity analysis to assess solution stability under varying constraints	New Brunswick, NJ
01/23-03/23	Cache Optimization in Matrix Multiplication (C) <ul style="list-style-type: none">• Applied loop tiling, loop interchange, and blocking techniques to reduce cache misses in C matrix multiplication• Benchmarked runtime and memory efficiency against unoptimized baselines	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, Java, C, Verilog HDL

Languages: English (Fluent), Mandarin (Native)

Interests: Custom PC building, hardware optimization

HAORAN (CHRIS) OUYANG

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: deep learning, stochastic analysis, portfolio management, asset pricing	New York, NY
09/21 - 06/25	RENMIN UNIVERSITY OF CHINA Dual B.S. Degrees in Mathematics and Finance <ul style="list-style-type: none">• Coursework: regression analysis, real analysis, functional analysis, PDEs, numerical methods, stochastic processes, deep learning, corporate finance, quantitative investment• Honors: Grand Prize Scholarship for Academic Excellence (#1 in Major, Consecutively for 3 Years)	Beijing, China

EXPERIENCE

11/24 - 04/25	ALLIANZ ASSET MANAGEMENT Quantitative Research Intern (Python, R) <ul style="list-style-type: none">• Built real-time updating library of 120 alpha factors with information coefficients (IC) more than 0.03 for index futures timing based on macro indicators, microstructure signals, and tick-level data• Developed system integrating numerous database APIs, supporting dynamic data calls• Built modular backtesting and risk evaluation framework from scratch, tailored for index futures timing strategies; integrated IC analysis, signal decay, risk premia estimation, and portfolio simulation• Optimized GRU-based models for alpha signal generation by tuning forecast horizons, turnover constraints, and risk-neutralization methods; enhancements led to Sharpe ratio of 2.7 in backtest	Beijing, China
07/24 - 11/24	SHANGHAI REDWALL TAIHE FUND MANAGEMENT (A-share focused quantitative fund with more than \$700M AUM) Quantitative Research Intern (Python) <ul style="list-style-type: none">• Explored over 50 microstructure-based alpha factors from tick-level data, capturing order imbalance and trade size signals to exploit short-term price pressure• Applied XGBoost and neural networks with custom loss functions tailored for alpha factors generation, and accelerated training with multiprocessing for parallel computation• Built supply chain weight matrix using inter-company transaction data, integrating upstream/downstream dynamics to propagate fundamental shocks across related firms: average improvement of 1.5% in daily IC• Forecasted PM-session excess returns using LSTM and MLP with daily/intraday factor inputs	Beijing, China
06/24 - 07/24	BEIJING JIAWO ASSET MANAGEMENT (A-share focused quantitative fund with more than \$700M AUM) Quantitative Research Intern (Python, DolphinDB) <ul style="list-style-type: none">• Researched high-frequency alpha signals with DolphinDB (time-series database supporting SQL- and Python-like scripting) based on order book data• Analyzed and enhanced weak signals by applying neutralization, restricting data to intraday windows, and analyzing cross-factor interactions under different market regimes• Created new composite factors using weighted aggregation or machine learning to maximize IC and extended factor-construction logic from low-frequency data to high-frequency data	Beijing, China

PROJECTS

01/25 - 04/25	RENMIN UNIVERSITY OF CHINA Dissertation: Deep Learning-Based Timing Strategy for Stock Index Futures (Python) <ul style="list-style-type: none">• Built return forecasting models using more than 150 daily spot-futures factors with hybrid deep learning architectures, achieving optimal performance through hyperparameter tuning• Developed futures trading strategies using prediction outputs and conducted backtest; achieved a 2.25 Sharpe ratio in backtesting CSI 300 futures strategy	Beijing, China
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COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, C, R, DolphinDB

Languages: English (fluent), Mandarin (native)

Activities: First Prize in National High School Mathematics League, Directed choir to win Gold in campus-level contest

YIFEI REN

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: risk & portfolio management, dynamic asset pricing	New York, NY
09/20 - 05/24	NEW YORK UNIVERSITY B.S. in Mathematics <ul style="list-style-type: none">• Coursework: multivariable calculus, PDE, ODE, numerical analysis, stochastic processes, math modeling, probability theory• Selected as student delegate for private roundtable with former U.S. Secretary of State Antony Blinken at NYU Shanghai Campus	New York, NY and Shanghai, China

EXPERIENCE

06/24 - 08/25	BEIJING DDHS CAPITAL CO. LTD. Investment & Trading Analyst <ul style="list-style-type: none">• Managed \$1M proprietary capital to generate over 25% excess returns vs. CSI 300 from Sep 2024 to Jul 2025 through integrated analysis and dynamic portfolio optimization• Engaged regularly with senior regulatory officials in multiple government agencies to translate insights into actionable investment strategies and portfolio adjustments• Structured 3 LPs, and managed fund's equity allocations, led negotiations with portfolio companies, and drafted and negotiated investment agreements• Attended CICC, CITIC Securities, and J.P. Morgan Asset Management investment forums; conducted financial/legal due diligence on multiple listed companies	Beijing, China
07/23 - 09/23	HUATAI SECURITIES (Top 4 Chinese securities firm) Equity Capital Markets Investment Analyst <ul style="list-style-type: none">• Executed valuations, determined issuance pricing, and participated in key IPO/SEO meetings for 5 listed companies; coordinated cross-functional teams• Distilled key international macro insights and KPIs from Bloomberg, Wind, and other data terminals for executive leaders' decision making• Informed investment decisions via fundamental and quantitative analysis; classified stocks and evaluated key metrics like Sharpe, volatility, drawdown, alpha, and beta• Managed investor relations for IPO and SEO projects; clarified investment mandates and secured allocations	Beijing, China

PROJECT

12/23 - 05/24	NYU INDEPENDENT STUDY MATH THESIS Stochastic Differential Equation and Its Application in Finance <ul style="list-style-type: none">• Investigated foundational stochastic calculus; analyzed properties of Brownian motion and established interconnections with Itô's integral and lemma• Derived Black-Scholes option pricing model using Brownian motion and Itô's lemma
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COMPUTATIONAL SKILLS / OTHER

Programming & Financial Tools: MATLAB, Python (Pandas, NumPy), SQL, Bloomberg, WIND, Excel

Languages: English (fluent), Mandarin (native)

Athletics: China National Second Level 1500m Athlete, Deadlift Personal Record 397 lbs

MISHEL SKENDERI

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• <i>Expected Coursework:</i> computing in finance, financial securities and markets, risk and portfolio management, stochastic calculus and dynamic asset pricing	New York, NY
08/16 - 05/21	BRANDEIS UNIVERSITY Ph.D. in Mathematics (2021); M.A. in Mathematics (2018) <ul style="list-style-type: none">• <i>Coursework:</i> real, complex, and functional analysis; abstract algebra (group and ring theory, commutative algebra); differential and algebraic topology and geometry; ergodic theory and homogeneous dynamics	Waltham, MA
09/11 - 06/15	THE UNIVERSITY OF CHICAGO B.A. in Mathematics <ul style="list-style-type: none">• <i>Coursework:</i> real, complex, and functional analysis; abstract algebra (group and ring theory, linear algebra); ordinary and partial differential equations; point-set topology; mathematical logic; computability theory; statistics; optimization; some economics courses; various humanities and social science core courses; general chemistry; core biology	Chicago, IL

EXPERIENCE

08/21 - 06/24	THE UNIVERSITY OF UTAH Department of Mathematics Wylie Assistant Professor (Lecturer) <ul style="list-style-type: none">• 3-year postdoctoral appointment in Department of Mathematics• Conducted research in Diophantine approximation and geometry of numbers• Wrote and published research articles, often with collaborators• Taught 8 courses as instructor of record, including single-variable calculus, multi-variable calculus, linear algebra, and introduction to real analysis• Held office hours; designed lectures, supplementary learning materials, homework assignments, exams, and quizzes; proctored and graded exams and quizzes	Salt Lake City, UT
08/17 - 05/19	BRANDEIS UNIVERSITY Department of Mathematics Graduate Student Instructor <ul style="list-style-type: none">• Taught 4 single-variable calculus courses as instructor of record• Held office hours; designed, proctored, and graded exams and quizzes	Waltham, MA

PUBLICATIONS

Inhomogeneous Diophantine approximation for generic homogeneous functions. (Joint with D. Ya. Kleinbock.) *Int. J. Number Theory* 19 (2023), no. 06, 1269–1293, DOI 10.1142/S1793042123500628.

Higher-rank pointwise discrepancy bounds and logarithm laws for generic lattices. (Joint with S. Kim.) *Acta Arith.* 205 (2022), no. 3, 227–249, DOI 10.4064/aa220325-17-8.

Khintchine-type theorems for values of subhomogeneous functions at integer points. (Joint with D. Ya. Kleinbock.) *Monatsh. Math.* 194 (2021), no. 3, 523–554, DOI 10.1007/s00605-020-01498-1.

Some results on random unimodular lattices. *Proc. Amer. Math. Soc.* 149 (2021), no. 2, 539–553, DOI 10.1090/proc/15241.

SKILLS / OTHER

Computer Skills: Python, Microsoft Excel, TeX, LaTeX, Overleaf

Languages: English (native), Albanian (native), French (intermediate)

Work Authorization: U.S. Citizen

JUNXIAN SONG

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EDUCATION

Expected 09/25	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Coursework: risk management, strategies, computing in finance, asset pricing	New York, NY
09/23 - 09/24	UNIVERSITY COLLEGE LONDON M.Sc. in Data Science <ul style="list-style-type: none">• Coursework: machine learning, deep learning, time series analysis, data engineering• Honors/Awards: Distinction (Top 10% of cohort)	London, UK
09/20 - 07/23	UNIVERSITY OF MANCHESTER B.Sc. (Honors) in Mathematics and Statistics <ul style="list-style-type: none">• Coursework: stochastic analysis, statistical inference, financial modeling, computing• Honors/Awards: Distinction (Top 5% of cohort)	Manchester, UK

EXPERIENCE

03/25 - Present	XINYUAN ASSET MANAGEMENT CO., LTD. Quant Research Intern (Python) <ul style="list-style-type: none">• Enhanced CTA strategy (frequency-upgraded) for rotational markets; deployed live on CSI 1000 and CSI 300, delivering more than 10% annualized return with less than 0.5% max drawdown• Designed commodity-futures inter-commodity (cross-product) spread-arbitrage framework generated more than 70% annualized returns over 4-year backtests with slippage modeling• Developed DGDNN model on CSI 1000; delivered 0.62 F1 score, 18% excess return• Extended HIST and refined its hidden concept module; delivered about 14% alpha on CSI 300	Shanghai, China
09/24 - 02/25	HUATAI FUTURES Futures Research Intern (Python) <ul style="list-style-type: none">• Researched corn, soybean, and live hog futures; analyzed market structure, contract specs/calendars, carry/basis, and seasonality to inform spread/hedge design• Used technical analysis (K-line patterns, MACD, KDJ) to identify short-term price trends• Conducted fieldwork with growers, feed mills, crushers, and processors; collected inventory, margin, and throughput data to calibrate supply-chain and fundamental models	Dalian, China
07/22 - 02/23	CHINA NATIONAL PETROLEUM CORPORATION	Shenyang, China
05/21 - 12/21	Commodity Hedging & Operations Analytics Intern <ul style="list-style-type: none">• Co-designed rules in CNPC's internal futures simulation (Tonghuashun), defining risk limits, margin thresholds, and execution protocols to sharpen risk awareness and pricing intuition• Built Excel calculator comparing spot margins to hedge costs (term structure, basis, margin interest, fees/slippage), giving refined-products desk a quick view of when to hedge• Tested CNPC's waterway-routing model with real barge schedules; logged deviations from dispatcher-selected routes and fed findings into next parameter update	

PROJECT

02/22 - 04/22	CARNEGIE MELLON UNIVERSITY Application and Practice of Data Science (Python) <ul style="list-style-type: none">• Implemented machine learning models in Python, including Bayesian inference, random forest• Analyzed real-world datasets with end-to-end workflows, from preprocessing to evaluation• Conducted research on random forest interpretability and performance	Remote
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COMPUTATIONAL SKILLS / OTHER

Certifications: Certificate in Quantitative Finance (CQF) - Expected Nov 2025 (exams completed)

Programming Languages: Python, RStudio, MATLAB, Wind, Excel

Languages: English (fluent), Mandarin (native)

Interests: Trading (Built A-share strategy with 380% annual return; max drawdown 48%), Ultimate Frisbee (China HS League - Gold), Violin (National Gold Award), Piano (National Youth Piano Competition - Provincial Gold)

BOYUAN SU

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
09/22 – 06/25	UNIVERSITY COLLEGE LONDON B.S. in Mathematics	London, UK

EXPERIENCE

07/24 - 08/24	SHENWAN HONGYUAN SECURITIES Quantitative Analyst Intern (Python, SQL)	Beijing, China
07/23 - 08/23	HUAXI SECURITIES Quantitative Analyst Intern (Python)	Shanghai, China

PROJECTS

06/25 - 07/25	Cross Section Stock Selection Strategy (Python)	New York, NY
06/23 - 07/23	CALIFORNIA INSTITUTE OF TECHNOLOGY Research on Option Pricing and Hedging Strategies (Python)	Pasadena, CA

CUMPUTATIONAL SKILLS / OTHER

Programming Languages: Python (NumPy, Pandas, Matplotlib, Seaborn, sk-learn), SQL, Java, C++
Languages: English (fluent), Mandarin (native)

DONG (FRANK) WANG

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance • <i>Coursework:</i> stochastic calculus, dynamic asset pricing, valuation of financial securities, risk and portfolio management, machine learning, computational statistics	New York, NY
06/20 - 06/25	UNIVERSITY OF TORONTO B.S. in Specialist Statistics - Quantitative Finance Stream • <i>Coursework:</i> linear algebra, multivariate calculus, differential equations, multivariate statistics, regression analysis, probability and stochastic processes, time series analysis • Honors/Awards: Dean's List (2021-2025); Graduation with High Distinction	Toronto, Canada

EXPERIENCE

09/24 - 11/24	ICARUS FUND (Asset management firm with \$900M in AUM) Quantitative Research Intern (Python) • Conducted weak-form market efficiency testing on seasonality/weekly patterns of Moderna and its competitors by implementing autoregressive and random walk models • Compared ARIMA, VAR, and state-space models for stock price prediction, producing diagnostic reports that improved forecasting accuracy for investment strategies	New York, NY
01/24 - 03/24	HUATAI SECURITIES Quantitative Analyst Intern (Python) • Enhanced company's asset allocation by implementing mean-variance and Black-Litterman models, achieving 0.21 absolute increase in portfolio Sharpe ratio • Developed small-cap stock selection strategy inspired by Fama-French factor principles, achieving annualized return of 18.41% over 6-month backtest period	Shanghai, China
05/23 - 08/23	SHANGHAI FUNDAMENTAL & BEYOND ASSET MANAGEMENT Shanghai, China Financial Analyst Intern (Python) • Improved company's trading performance by designing hybrid strategy that combined technical and fundamental signals, achieving 30% relative increase in win rate • Analyzed profitability and growth potential of companies in hydrogen energy sector to provide reliable reference for investment decisions	Shanghai, China

PROJECTS

01/24 - 06/24	UNIVERSITY OF TORONTO Empirical Investigation of Carbon Emissions Trading Systems (R) • Investigated impact of primary market auctions on secondary market prices within EU Emissions Trading System (EU ETS), in collaboration with 4 other students • Verified that carbon emissions trading market is consistent with EMH by implementing ARIMA regression model on carbon price with commodities and meteorological data • Developed trading strategies based on auction and spot prices of carbon emission allowances, achieving maximum cumulative PnL of 43% over 4 years	Toronto, Canada
09/23 - 12/23	UNIVERSITY OF TORONTO Video Track Analysis for HeroRATs' Odor Preference (R) • Collaborated with APOPO, an NGO that aims to detect landmines or tuberculosis using scent-detection animals like HeroRATs • Identified key behavioral patterns and their implications for HeroRATs' odor preferences by performing principal component analysis on dataset of rats' video behaviors	Toronto, Canada

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, R, C

Languages: English (fluent), Mandarin (native)

Activities: UofT Teaching Assistant; UofT Green Path Association Mentor

MENGLIN (WARREN) WU

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
09/21 - 06/25	FUDAN UNIVERSITY B.S. in Applied Mathematics	Shanghai, China

EXPERIENCE

03/25 - 06/25	SHENZHEN HANRONG PRIVATE FUND CO., LTD Quantitative Research Intern (C++, Python)	Shanghai, China
07/24 - 09/24	ZHEJIANG FENGDA INVESTMENT MANAGEMENT CO., LTD. Research Intern – Discretionary Trading Strategies	Hangzhou, China
07/23 - 09/23	GUOTAI JUNAN SECURITIES CO., LTD. Investment Banking Intern	Shanghai, China

PROJECTS

01/24 - 11/24	FUDAN UNIVERSITY Data-pooling Algorithms in Contextual Bandits (Python)	Shanghai, China
05/23	Futures Prices Correlation Analysis and Investment Strategy Research (Python, MATLAB)	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, MATLAB, C++
Languages: English (fluent), Mandarin (native)

BOHONG XU

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Coursework: object-oriented programming, stochastic calculus, portfolio optimization, market microstructure, Black-Scholes, machine learning	New York, NY
09/21 - 06/25	WUHAN UNIVERSITY B.S. in Physics <ul style="list-style-type: none">• Coursework: calculus, linear algebra, probability theory, statistics, complex function, ODEs, PDEs, computational physics, thermal dynamics• Honors/Awards: Academic Outstanding Students Scholarship (2022-2023)	Wuhan, China

EXPERIENCE

03/25 - 06/25	SHUI-MU LONG-TERM INVESTMENT MANAGEMENT CO., LTD. Quantitative Research Intern – Commodity Trading Advisor (Python) <ul style="list-style-type: none">• Engineered net position factor (LRSR) from seat-level futures data of top 10 brokerages, uncovering behavioral patterns of dominant institutional participants• Designed cross-sectional long-short strategy based on LRSR, achieving annualized Sharpe ratio of 1.49 from Jan 2016 to Mar 2025• Developed black box following strategy based on position rankings of leading brokerage seats, with Guotai Junan Futures emerging as most predictive and profitable seat• Performed strategy attribution using technical indicators (e.g., MACD), with 78% of position shifts aligning with directional signals, validating signal robustness	Beijing, China
10/24 - 01/25	CAUSIS MANAGEMENT (WUHAN) CO., LTD. Quantitative Research Intern – High Frequency Trading (Python) <ul style="list-style-type: none">• Aggregated tick-level data to quantify per-second active buy and sell volumes of large orders, using 90th percentile large-order thresholds defined to capture key capital flow• Enhanced short-term return predictability by integrating large-order volume into sentiment factors, achieving 9.87% correlation with 60-second returns• Engineered factor combinations and trained CatBoost regression model, improving 60-second return IC by 5.7% through nonlinear interaction modeling	Wuhan, China
07/23 - 09/23	HUAFU SECURITIES CO., LTD. Quantitative Research Intern – Stock Trading Strategy (Python) <ul style="list-style-type: none">• Evaluated PB-ROE stock selection strategy by annually ranking A-share companies and constructing portfolio of top 20 stocks based on combined valuations and profitability• Backtested from 2002 to 2023 with annual rebalancing, achieving 93% success rate of positive returns in following year	Putian, China

PROJECT

09/24 - 11/24	WUHAN UNIVERSITY Empirical Asset Pricing Analysis (Python) <ul style="list-style-type: none">• Analyzed firm-level betas and investigated relationship between beta and future stock returns by constructing beta-sorted portfolios and examining CAPM• Applied Fama-French three-factor model with Fama-MacBeth regression, confirming size and value factors' explanatory power	Wuhan, China
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COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, C++, SQL, MATLAB

Languages: English (fluent), Mandarin (native)

Trading Experience: 4 years' hands-on experience in A-share market leading quantitative trading team and developing strategies executed via QMT

LEXI (ANTHONY) YAO

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
09/21 - 06/25	CENTRAL UNIVERSITY OF FINANCE AND ECONOMICS B.Econ. in Financial Engineering	Beijing, China

Coursework: stochastic calculus, asset pricing, Python in finance, portfolio management, derivative market, machine learning, market microstructure, time series analysis

Awards: Academic Excellence Scholarship for 2021-2022 and 2023-2024

Thesis: "Turnover Effect and Mispricing in Chinese Stock Market: Based on Endogenous Beta Perspective"

EXPERIENCE

05/25 - 07/25	JINYI CAPITAL Quantitative Research Intern (Python)	Beijing, China
	<ul style="list-style-type: none">Reconstructed original order book from tick-by-tick transaction data and order flow informationConstructed over 300 daily and intraday order factors based on snapshot tick data, tick-by-tick transaction records, and original order book informationCollaborated on development of company's high-frequency trading system, optimized factor construction algorithms, and improved efficiency of order factor data ingestion	
01/25 - 04/25	HUATAI SECURITIES CO., LTD. Financial Engineering Intern (Python)	Shanghai, China
	<ul style="list-style-type: none">Applied LSTM and Lasso algorithms to enhance pair trading strategies, significantly improving risk-adjusted returns, with Sharpe ratio rising from 1.49 to 2.06Used XGBoost algorithm to develop weekly multi-factor strategy, achieving Sharpe ratio of 3.23 with 4.81% maximum drawdownAchieved 18.13% annual return through portfolio optimized by Black-Litterman model, including 18 assets from commodities to stocks	

GUOTAI HAITONG SECURITIES CO., LTD. Shenzhen, China

Quantitative Allocation Intern (Python, KDB)

- Used KDB to construct over 100 price-volume factors from minute-level stock data; utilized Python for factor normalization and market capitalization neutralization
- Developed single-factor backtesting program for decile categorization and showed metrics like annual volatility, Sharpe ratio, and maximum drawdown
- Improved average factor annual return to 22.43% through factor aggregation weighted by information coefficient of each factor

PROJECT

09/23 - 01/24	CENTRAL UNIVERSITY OF FINANCE AND ECONOMICS Application of Multi-Factor Strategy Based on Stacking Algorithms	Beijing, China
	<ul style="list-style-type: none">Mined 54 factors across 7 dimensions including momentum and profitabilityApplied logistic, random forest, SVM, LightGBM, and XGBoost algorithms for investmentConstructed stacking ensemble learning model with multiple algorithms; conducted backtesting on aggregated ensemble models	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, C++, MATLAB, SQL

Languages: English (fluent); Mandarin (native)

Activities: Advanced Mathematics teaching volunteer at Central University of Finance and Economics

ENYANG (TONY) YU

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Coursework: financial computing, portfolio management, derivatives pricing, stochastic calculus	New York, NY
09/20 - 05/24	NEW YORK UNIVERSITY B.A. in Economics and Mathematics <ul style="list-style-type: none">• Coursework: calculus, linear algebra, optimization, differential equations, real analysis, game theory, econometrics, probability, statistics, financial mathematics	New York, NY

EXPERIENCE

07/24 - 07/25	LANDAIR PROPERTY ADVISORS Senior Investment Sales Associate <ul style="list-style-type: none">• Valued commercial properties based on capitalization rates, comparables, and pro-forma analyses• Generated more than \$20 million in exclusive listings through cold-calling and targeted research• Closed about \$6 million worth of real estate transactions with buyer and seller representation• Improved workflow efficiency by 10% and suggested improvements in technology systems• Constructed robust client book of more than 20 developers, investors, and attorneys	New York, NY
06/23 - 08/23	CHINA MERCHANTS SECURITIES CO, LTD. Quantitative Analyst Intern (Python, SQL) <ul style="list-style-type: none">• Exported financial data from Wind Financial Terminal to Excel and analyzed using VBA• Organized and cleaned financial data in Python using SQL queries and Pandas• Compiled clean, filtered, and ready-to-use data for more than 3,000 Chinese Class A stocks• Experimented with effectiveness of financial factors using monotonicity testing, rank information coefficient, and Monte-Carlo simulations	Shenzhen, China

PROJECTS

03/24 - 05/24	NEW YORK UNIVERSITY Mathematics of Finance: Derivative Analysis and Simulation (Python) <ul style="list-style-type: none">• Implemented deterministic finite difference and stochastic discretization schemes to approximate price and Greek paths of options in Python• Conducted thorough analysis of effectiveness and accuracy of each method and discretization step by using Black-Scholes model as analytical baseline• Simulated exotic option spread using Monte-Carlo simulations and Black-Scholes PDE• Analyzed distribution of dynamically hedged portfolio over multiple time intervals	New York, NY
04/24	Data Science Club x CBRE Datathon (Python) <ul style="list-style-type: none">• Collaborated with other students on machine learning construction prediction model with 48-hour timeline• Sourced satellite imagery of more than 200 plots of construction in various stages of development and processed data using PyTorch dataloaders and transforms• Fine-tuned hyperparameters and additional layers on pretrained ResNet and VGG16 models to approximate estimated time of completion, achieving approximately 70% accuracy	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, SQL, VBA

Languages: English (native), Mandarin (fluent)

CHEN ZHANG

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
09/21 - 07/24	UNIVERSITY COLLEGE LONDON B.S. in Economics and Statistics	London, England

EXPERIENCE

12/24 - 02/25	CAIDA SECURITIES Asset Management Intern	Tangshan, China
06/24 - 08/24	BANK OF TANGSHAN Commercial Banking Intern	Tangshan, China
07/23 - 09/23	CSC FINANCIAL Summer Analyst in Fixed Income Department	Beijing, China

PROJECTS

03/24 - 03/24	UNIVERSITY COLLEGE LONDON Portfolio Risk Estimation Using Copula-Based Model (R)	London, England
03/23 - 03/23	Analysing Demand in Fulton Fish Market (Stata)	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, R, Stata, SQL

Languages: English (fluent), Mandarin (native)

Interest: Soccer (multiple MVP awards in collegiate league)

JIAQI (PETER) ZHANG

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Expected Coursework: object-oriented programming, Brownian motion, Ito integral, Black-Scholes, derivatives valuation, stochastic processes	New York, NY
09/21 - 05/25	NEW YORK UNIVERSITY B.A. in Mathematics and Economics <ul style="list-style-type: none">• Coursework: corporate finance, data structure, probability & statistics, numerical analysis, ordinary differential equations, optimization, stochastic calculus• Honors/Awards: Founders Day Award, cum laude	New York, NY

EXPERIENCE

05/25 - 08/25	NEW YORK UNIVERSITY Mathematics Tutor <ul style="list-style-type: none">• Tutored 30+ students in algebra, calculus, and statistics, improving average test scores by 20% through personalized lesson plans and problem-solving strategies• Provided one-on-one tutoring in mathematics to more than 10 students, helping them build confidence and strengthen quantitative skills	New York, NY
12/22 - 01/23	TAKENAKA PARTNERS Investment Banking Winter Analyst (SQL, PitchBook) <ul style="list-style-type: none">• Evaluated and identified more than 100 targets for each client as part of targeted screening process for 2 buyside mandates in surgical navigation and kitchen maintenance service industries• Brainstormed potential synergies through market research, and ranked targets using internal scoreboard with various criteria; estimated targets' annual revenue and revenue multiple ranges	Los Angeles, CA
09/22 - 11/22	INDEPENDENT INVESTMENT BANKERS CORP Investment Banking Fall Analyst (S&P Capital IQ) <ul style="list-style-type: none">• Engaged in 3 sell-side M&A transactions and collaborated on teaser preparation• Developed lists of more than 400 potential financial and strategic buyers, coordinated more than 10 conference calls; communicated on follow-up materials; updated buyers' interests	Austin, TX
05/22 - 08/22	BONDCLIFF PARTNERS Private Equity Summer Analyst (Excel, PitchBook) <ul style="list-style-type: none">• Conducted proprietary deal origination and screened 500 healthcare software companies for potential buyouts; updated database, drafted outreach emails, and prepared for conference calls• Researched electronic health records industry, including summarizing annual filings of industry leaders and gauging key trends by speaking to industry experts• Analyzed targets' business models, software features, competitions, and key customers	Boston, MA

PROJECT

11/24 - 12/24	NEW YORK UNIVERSITY Strassen's Algorithm Analysis (Python) <ul style="list-style-type: none">• Performed in-depth analysis of Strassen's matrix multiplication algorithm, reducing time complexity, and benchmarked it against classical methods using Python• Investigated numerical stability, memory usage, and threshold effects through log-log runtime plots, providing practical insights into Strassen's algorithm limitations and applicability• Designed research poster and delivered formal presentation to communicate technical findings and practical implications of Strassen's algorithm to professors and classmates	New York, NY
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COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, Java, SQL

Languages: English (fluent), Mandarin (native)

Activity/Affiliation: NYU Chinese Finance Club (Mentee), NYU Math for Economics Recitation Leader

YONGJIE (ERIC) ZHAO

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Coursework: mathematical finance, stochastic calculus, scientific computing, algorithmic trading, numerical methods, machine learning	New York, NY
09/20 - 06/25	UNIVERSITY OF WATERLOO B. Math in Statistics; Minors in Pure Mathematics & Computer Science <ul style="list-style-type: none">• Coursework: optimization, mathematical programming, quantitative risk management, probability, statistical inference, deep learning, stochastic processes, combinatorics, numerical linear algebra, real analysis• Honors/Awards: Dean's Honours, Mathematics Undergraduate Research Award, President's Scholarship, Alumni@Microsoft Entrance Scholarship in Mathematics	Waterloo, ON, Canada

EXPERIENCE

05/25 - Present	UNIVERSITY OF WATERLOO Undergraduate Research Fellowship (MATLAB) <ul style="list-style-type: none">• Formulate theoretical proofs for Gauss-Newton-based primal-dual interior point method applied to semidefinite relaxation (SDP) of Maximal Stable Set Problem• Designed MATLAB-based algorithms that reached 16-decimal accuracy on small-scale SDP problems, and identified scalability challenges that informed directions for further optimization	Waterloo, ON, Canada
09/24 - 12/24	Undergraduate Teaching Assistant - Probability <ul style="list-style-type: none">• Graded assignments and quizzes for over 150 students, and ensured grading was consistent with course rubrics and learning objectives	
05/23 - 09/23	Research Assistant (Python) <ul style="list-style-type: none">• Applied neural networks to estimate hedging ratios for path-dependent options, designing custom loss functions and evaluating performance relative to classical hedging methods• Implemented RNN and LSTM models; visualized and analyzed hedge ratios to assess accuracy and improve understanding of model effectiveness in financial markets	
09/21 - 12/21	CSC FINANCIAL CO., LTD. Product Director Assistant (Excel) <ul style="list-style-type: none">• Analyzed performance persistence of 1,000 mutual funds by calculating Spearman correlation coefficients in Excel and visualizing trends to support portfolio strategy recommendations• Aggregated team performance data; created daily charts to monitor key business metrics for management	Shenzhen, China

PROJECTS

08/24 - 09/24	UNIVERSITY OF WATERLOO Reinforcement Learning Algorithms in Control Problems (Python) <ul style="list-style-type: none">• Implemented Soft Actor-Critic (SAC) algorithms to solve humanoid robot movement tasks in OpenAi gymnasium• Achieved more than 4,500 moving average reward during first 4,000 episodes and stabilized performance at higher range thereafter	Waterloo, ON, Canada
07/24 - 08/24	Expectation-Maximization Algorithm Applications in Quantitative Risk Management (R) <ul style="list-style-type: none">• Demonstrated convergence of EM algorithm for multivariate-t distribution through proofs• Applied in R to simulated (n=1000, d=10) and real financial data (3 indices, n=1257), achieving rapid convergence and improved tail-risk fit vs Gaussian	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, MATLAB, R, LaTeX

Languages: English (fluent), Mandarin (native)

Certification: FRM Level II Candidate

LIAN ZHU

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <ul style="list-style-type: none">• Forthcoming Coursework: financial computing, stochastic calculus, dynamic asset pricing, risk portfolio management, derivatives, algorithmic trading, deep learning, Monte Carlo	New York, NY
09/21 - 03/25	UNIVERSITY OF CALIFORNIA, SANTA BARBARA B.S. in Financial Mathematics and Statistics <ul style="list-style-type: none">• Coursework: linear algebra, numerical analysis, PDE, stochastic processes, regression analysis, time series, machine learning, fixed income, asset pricing, portfolio optimization, OOP• Honors: Honors at Graduation (Top 10%)	Santa Barbara, CA

EXPERIENCE

07/24 - 08/24	CHINA MERCHANTS SECURITIES CO., LTD. Quantitative Research Intern (Python) <ul style="list-style-type: none">• Reviewed factor research reports from leading PRC securities firms; extracted quantitative formulas, produced weekly analytical summaries, and reported findings to the portfolio manager• Analyzed investor behavior by decomposing reversal and momentum into daily returns and constructing factors from over 10 risk proxies using half-life-weighted excess returns• Performed cumulative return and net-value analyses using data, backtested long-short hedged strategies (monthly IC 0.072; annualized return 1.80%; ICIR 3.15)	Shenzhen, China
07/23 - 08/23	BANK OF BEIJING CO., LTD. Model Development Intern (Python) <ul style="list-style-type: none">• Designed credit risk modeling strategies, and segmented clients by risk level using rolling default rate and aging analysis to forecast credit performance• Conducted feature engineering (generation, aggregation, transformation) and selected key variables via WOE/IV, logistic regression, and coefficient analysis• Evaluated model performance using KS, AR, Gini, AUC, ROC, confusion matrix, and PSI• Developed Python-based credit scorecards to help bank reduce loan default risk	Beijing, China
07/22 - 08/22	PING AN TECHNOLOGY CO., LTD. Data Analyst Intern (SQL, Java) <ul style="list-style-type: none">• Configured database connections and Sqoop scripts to transform ODS into ADS using SQL; handled Hive configuration, HDFS uploads, LINKDO scheduling, and validation of scripts.• Built dashboards with Tableau, Power BI, FineBI, and the company's proprietary BI software; suggested improvements and assessed its market potential• Diagnosed root causes of low internal app usage, proposed targeted improvements, and consolidated findings in reports to team and supervisor, leading to higher app usage	Shenzhen, China

PROJECT

06/24 - 06/24	UNIVERSITY OF CALIFORNIA, SANTA BARBARA Advanced Mathematical Finance Course Project (Python) <ul style="list-style-type: none">• Constructed 10-stock minimum-variance portfolios, efficient frontiers, and capital market lines• Analyzed historical portfolio performance, considering COVID and regulatory impact• Developed hedging and rebalancing strategies	Santa Barbara, CA
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COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, R, MATLAB

Languages: English (fluent), Mandarin (native)

Activities: Chinese Chess (4th place, Beijing Junior Tournament)

SIYI ZHU

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EDUCATION

Expected 12/26	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
09/20 - 12/24	MOUNT HOLYOKE COLLEGE B.A. in Mathematics and Economics	South Hadley, MA

• **Expected Coursework:** computing in finance, financial securities and modeling, risk and portfolio management, stochastic calculus, asset pricing, derivative market, machine learning

• **Coursework:** calculus, linear algebra, discrete mathematics, probability, real analysis, stochastic processes, number theory, abstract algebra, data structures (Java), statistics (R)

EXPERIENCE

06/24 – 08/24	CHINA SECURITIES Quantitative Research Intern (Python)	Beijing, China
	• Developed volatility-linked position adjustment model using Python to optimize pricing, risk management, and performance of financial instruments and portfolios	
	• Calculated daily return lines for backtesting beta trend control strategies using CSI 500 and CSI 1,000 datasets with Python, assessing impact of various market conditions on performance	
	• Analyzed protective put strategies for hedging downside risk in futures positions by purchasing put options, ensuring delta-neutral coverage to mitigate potential losses	
	• Designed hybrid quantitative trading strategy using Lasso Regression Model in Python, achieving 3.73% excess return during downturns and reducing market risk exposure by 31.75%	
05/24 - 06/24	MOUNT HOLYOKE COLLEGE Research Assistant (Netlogo, Python)	South Hadley, MA
	• Investigated spin-coated polymer films with NetLogo using modified versions of Triangular Growth Model on outside-in growth and dynamic color changes to simulate polymer dynamics	
	• Designed Color-Index & Color-Front Model to visualize growth phases of triangular polymer structures with dynamic color changes, bond formation, and polymer aging over time	
	• Developed image-based statistics of polymer using network theory and ML algorithm	
06/23 - 08/23	CINDA SECURITIES Research Analyst Intern	Beijing, China
	• Authored comprehensive market research on energy storage converters and virtual power plants, energy transformation policy trends, risks and market size to support investment strategies	
	• Presented comparative analyses of Chinese photovoltaic inverter industry and energy storage installations across global markets, leveraging regression models to forecast future performance	

PROJECTS

07/22 - 08/22	BROWN UNIVERSITY Research on Minimum Covering Circle (MATLAB)	Providence, RI (Remote)
	• Investigated optimal solutions to minimum covering circle problem using MATLAB, focusing on enhanced outcomes through convex optimization and Lagrangian duality techniques	

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, Java, R, C/C++, Stata, LaTex, MATLAB, Bloomberg

Languages: English (fluent), Mandarin (native), French (basic), Korean (basic)

Certifications/Baruch Pre-MFE Programs: Advanced Calculus with Financial Engineering Applications (Distinction), Probability Theory for Financial Applications, Bloomberg Market Concepts & Finance Fundamentals

Activities: Teaching Assistant at Mount Holyoke College for Intro. to Proof Through Analysis, Mathematics & Statistics Department Liaison, Clarinet (Performance Level 1), Sailing (Assistant Coach Certificate), Ballet (RAD 6)

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