

URKESH CUSACK TUERXUN

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EDUCATION

YALE UNIVERSITY

New Haven, CT

MSc, Asset Management (STEM Designated)

2024

- Graduate program at Yale SOM, focusing on applying data science and quantitative methods to investment decisions
- **Coursework:** Quantitative Investing Strategies (QIS), Introductory Machine Learning, Financial Econometrics & Machine Learning, Large Language Models, Java, Asset Pricing, SQL & Databases, Portfolio Management

Computer Skills: Python, SQL, Java, Github, NLP (HuggingFace, Langchain, OpenAI), ML (Pytorch, Scikit...)

UNIVERSITY OF HULL

Hull, United Kingdom

BBA, Finance, First Class Honors (Summa Cum Laude)

2023

- Completed exchange semester in France (MBS), and ranked 2nd out of 304 students within the University
- **Coursework:** International Finance, Financial Accounting, Statistical Inference, Micro & Macro Economics

PROFESSIONAL EXPERIENCE

YALE SCHOOL OF MANAGEMENT

New Haven, CT

Research Assistant

2024

- Working as a research assistant for Dr. Stefano Giglio within the Finance department of the School of Management
- Using NLP models (ChatGPT, MistralAI) to extract information from IMM news articles relating to climate risk
- Retrieve data on fossil fuel reserves of all U.S. energy companies listed on the S&P500 over the past 20 years

SILKHAUS (*seed-stage startup*)

Dubai, United Arab Emirates

Summer Associate

2023

- Built financial models to evaluate the Dubai real estate market, and returns of the portfolio (200+ properties across Dubai and Abu Dhabi), in the purpose of launching a Real Estate Investment Trust (REIT)
- Worked alongside COO to improve financial performance by optimizing operational processes and reducing costs

TRADEWEB MARKETS LLC

London, United Kingdom

Summer Analyst, Algorithmic Trading

2022

- Tradeweb is the world's largest fixed income and ETF electronic trading platform (\$1.4Tn daily volume traded)
- Analyzed trade orders amounting to \$10B notional and recommended trade-merge opportunities to execution traders
- Re-designed the trading UI parameters of 100+ asset managers, such as BlackRock and State Street, by using Excel VBA and building a python bot with an SQL connection running an analysis on more than 1.5MM datapoints
- Improved efficiency as measured by reducing the number of trading rules from 22K to 7K on a firm wide level

RELEVANT PERSONAL PROJECTS

- **Quantitative Finance:** Experience implementing and creating vol models (GARCH, DCC GARCH), Ridge/Lasso Regression, Neural Networks, PCA, ARIMA and applied NLP (See GitHub Repo [Here](#))
- **Cryptocurrency:** Create crypto trading bot using multiple NLP models (OpenAI, Hugging Face, Stanford NLP) to assess sentiment on specific crypto assets (BTC, ETH, SOL...), using 25 million Telegram chat messages
- **Sports Betting:** Create a soccer-betting algorithm using machine learning to predict different game outcomes (W-D-L, Over/Under, BTTS, Corners) and run trading strategy using the model against bookmaker odds

ADDITIONAL INFORMATION

- **Certifications:** Harvard CS50, Python – HKU, Python for Financial Analysis – Google, Crash Course on Python
- **Interests:** Football (Yale SOM FC), Skiing, Philosophical Debate (Yale Political Union), Rare Maps, Sports betting