ZIXIAO(TODD) WANG ■ zixiao.wang@nyu.edu ■ linkedin.com/in/zixiaotodd/

| EDUCATION | |
|---|-----------------------|
| NEW YORK UNIVERSITY | New York, NY |
| The Courant Institute of Mathematical Sciences | |
| M.S. in Mathematics in Finance (expected Dec 2022) | |
| • <i>Coursework:</i> portfolio theory, Monte Carlo simulations, dynamic pricing and programming, | |
| machine learning, stochastic process, computational statistics, big data ap | plication |
| JILIN UNIVERSITY | Changchun, CN |
| Bachelor of Economics in Financial Mathematics (2017-2021) | |
| • <i>Coursework:</i> probability and statistics, time series, PDE, SDE, derivatives, machine learning. | |
| • Senior Thesis: "The Application of Deep Learning in Stocks Selection" | |
| • Awards: National 2nd Prize in China Mathematical Contest in Modeling, National 1st Prize in | |
| Chinese Mathematics Competitions, National Scholarships, Outstanding | Graduates |
| EXPERIENCE | |
| SHENYI INVESTMENT (one of first registered hedge funds in China) | Shanghai, CN |
| Summer Quantitative Research Intern | Jun 2021 - Aug 2021 |
| • Implemented rolling statistical test and machine learning model to synthesize macro data into a | |
| monthly indicator reflecting the rotation of market style between value and growth. | |
| • Used Python to realize Fundamental-consensus, Technical, Intraday and Expected-real Ratio | |
| alpha based on sell-side research with SQL to select raw data and update alpha. | |
| • lested different ways to prepare unbalanced stocks data and compared the Boruta model with | |
| random forest and xgboost in feature selection before the classic machine learning process. | |
| • Self-designed bagging framework to replace decision trees with adaboost, xgboost and LGBT. | |
| • Applied time-series and cross-section data analysis towards agency-recommended stocks pool | |
| trying to rank agencies and find momentum or reverse premium benind. | |
| HUAIAI SECURITIES | Nanjing, CN |
| Quantitative Research Intern, Securities Investment Department | Jan 2020 - Feb 2020 |
| Assisted in alpha hedge strategy and used Numpy to realize technical alpha factors. Applied extensive research reports of stock selection models and used Puthon (sklearn etc.) to | |
| • Applied extensive research reports of stock selection models and used rython (skiedin etc.) to | |
| Learned combinatorial optimization theory and applied it in industry risk control | |
| PROJECTS | |
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| | Changehun, CN |
| Research on the Application of Deep Learning in Stocks Selection | Dec 2020 - May 2021 |
| • Completed data cleaning and resampling using Pandas and Tensorflow in Python. | |
| Applied feature selection based on IC and PCA on price-volume and fundamental dataset. Designed the structure of MLP LSTM and CNN to fit the detabase and debugged perspector and | |
| • Designed the structure of MLP, LS IM and CNN to fit the database and d | ebugged parameter and |
| nyperparameter of the model to make bias-variance tradeoff. | T 1 THZ |
| THE LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE | London, UK |
| LSE Summer School, Financial Market | Jul 2019 - Aug 2019 |
| • Mastered modern financial topics including arbitrage pricing, market structure and noise. | |
| • Exposed to behavioral finance, explaining the long-term premium in momentum strategy. | |
| COMPUTATIONAL SKILLS/UTHER | |
| • Programming Languages: Python (pandas/tensorflow/numpy/sklearn/dbconnection), Matlab | |
| (Monte Carlo/finite differential), R (time series), Java (data structure/computation in finance) | |

• Languages: English (fluent), Chinese (native), Certifications: CFA Level I Candidate