

YANGHONG GUO

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EDUCATION

University of Texas at Dallas

PhD in Statistics

Aug 2021 – Present

Dallas, TX

Columbia University

MA in Statistics

Sep 2016 – May 2018

New York, NY

University of Houston

MS in Applied Mathematics

Aug 2015 – May 2016

Houston, TX

East China University of Science & Technology

BS in Mathematics & Applied Mathematics

Sep 2012 – Jun 2016

Shanghai, China

SKILLS

- **Languages:** Python, MATLAB, C++, Latex, HTML
- **Database:** MySQL, SQL Server
- **Data Analysis:** R, SAS
- **Version Control:** GitHub

EXPERIENCE

Bank of China

Industry Researcher

Jul 2019 – Aug 2020

Beijing, China

- Analyzed customer service hot-line data by the speech semantic analysis system
- Extracted effective information by keyword modeling, analyzed frequent issues, and predict potential issues

Beijing Micai Investment Co., Ltd.

Blockchain and Crypto Data Analyst

Jul 2018 – Mar 2019

Beijing, China

- Identified and implemented quantitative automatic trend-tracing trading strategy
- Deployed trading strategies to the local server and maintained them daily
- Applied web-crawler with Python to collect online STO data then saved to the database by MYSQL
- Generated bilingual research reports on the in-depth study of new STO crypto launched

Taikang Pension & Insurance Co., Ltd.

Pension Investment Analysis Intern

Mar – May 2020

Beijing, China

- Made strategic asset allocation decisions with B-L model in MATLAB with data from 2013 to 2018
- Supervised the investment performance of investment of subordinate bodies and gave improvement advice

China Merchants Securities Co., Ltd.

Quantitative Analysis Intern

Jun – Aug 2017

Shenzhen, China

- Designed investment strategies by applying RNNs on historical stock performance data
- Detected listed companies with significant default risk by financial-soundness indicators

PROJECTS

Potential ETC Customer Identification | Python, TensorFlow, Scikit-learn

Nov 2019

- Processed the original dataset of 9 million samples with de-noise analysis
- Applied naive Bayes principle to obtain the soft voting output under the assumption of independence
- Utilized data discretization methods to further reduce model complexity
- Refined the data by Grid Search and Ensemble Generation and achieved an AUC over 0.9 of targeting a potential ETC Customer

Feature Sensitive 3D Printing Adaptive Slicing Algorithm | MATLAB, R

Jun 2016

- Built the feature sensitive metric of the object surface, then mapped the 3-dimensional points to a sextuple space
- Pinpointed areas with significant normal vector change and huge curvature of local surface
- Traversed all the layers and pairs of points on the layer, which greatly improved the surface accuracy by 10%

HONORS & AWARDS

- CFA level III candidate
- Nomination Award in 2019 Bank of China Machine Learning Modeling Contest
- Outstanding Work Prize in 2016 Student Entrepreneurship and Innovation Competition
- ECUST Academic Scholarship for 2012-2016 consecutively during undergraduate