Yanghong Guo

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EDUCATION

University of Texas at Dallas **Aug 2021 – Present**
PhD in Statistics *Dallas, TX*

Columbia University **Sep 2016 – May 2018**
MA in Statistics *New York, NY*

University of Houston **Aug 2015 – May 2016**
MS in Applied Mathematics *Houston, TX*

East China University of Science & Technology **Sep 2012 – Jun 2016**
BS in Mathematics & Applied Mathematics *Shanghai, China*

SKILLS

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

EXPERIENCE

Bank of China **Jul 2019 – Aug 2020**
Industry Researcher *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. **Jul 2018 – Mar 2019**
Blockchain and Crypto Data Analyst *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. **Mar – May 2020**
Pension Investment Analysis Intern *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. **Jun – Aug 2017**
Quantitative Analysis Intern *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

- 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