

Charles (He) Zhang

Email: charles.zhang@gatech.edu

Phone number: (571)527-8366

EDUCATION

Georgia Institute of Technology

Ph.D. in Econometrics & Quantitative Economics (STEM)

Atlanta, GA, U.S.

08/2015 – 12/2019 (expected)

Minored in Computer Science GPA: 3.70/4

Course highlights: Computational Statistics, Data Visualization and Analytics, Data Mining & Statistical Learning, Deep Learning, Data Management and Machine Learning, Stochastic Process in Finance, Advanced Econometrics I&II, Time-series Econometrics, Discrete Choice Econometrics

Honors and extracurricular activities: Graduate Teaching/Research Assistantship; SOE Summer Fellowship; GaTech Phd2Consulting Club

The Johns Hopkins University

Baltimore, MD, U.S.

MBA in Finance

08/2013 - 05/2015

Major GPA: 3.75/4

Course highlights: Quantitative Financial Analysis, Information System, Derivatives, Optimization

Honors and extracurricular activities: Johns Hopkins Carey Business School Institutional Scholarship

Nanjing University

Nanjing, Jiangsu, China

B.Sc in Finance and Bach in Law (L.LB)

08/2009 - 07/2013

GPA: 3.50/4

Honors and extracurricular activities: Vice President of the Liaison & Public Relationship Department of Nanjing University Student Union; Nanjing University Graduate School fellowship offer with exam waiver; The People's Scholarship (Second-Class and Third-Class)

SKILLS

Scripting/OOP Language	Statistical Software/Packages	Data Management/Processing	Data Visualization/ Front-end development	Big Data Processing/ Cloud Computing	Natural Language Processing/ Machine Learning	Business Intelligence Systems
<ul style="list-style-type: none">PythonRVBA/VBSJavaScriptMatlabJava	<ul style="list-style-type: none">SAS (Certified)StataSPSS	<ul style="list-style-type: none">Oracle SQLMySQL	<ul style="list-style-type: none">D3 (JS)Bootstrap (JS)Chart (JS)Shiny (R)Plotly (Python)Dash (Python)	<ul style="list-style-type: none">HadoopPigPySparkAWSAzure	<ul style="list-style-type: none">Spacy (Python)NLTK (Python)Keras (Python)Tensorflow (Python)	<ul style="list-style-type: none">IBM TM1Oracle ERPBloomberg

PROFESSIONAL EXPERIENCES

Change Healthcare, Technology Enabled Services

Atlanta, GA, U.S.

Financial Analyst (Intern)

05/2019 – 08/2019

- Built up an automated system with VBA/VBS to conduct P&L analysis and to generate reports, which saves 80% of time for analysts.
- Developed dashboards for the P&Ls by using JavaScript and Python, which provide insights to help the managers conduct expenditure control
- Participated in the drafting work of the intercompany expenses transfer agreement between ENT Physicians and Health Systems.

Children's Healthcare of Atlanta, Outcome Center

Atlanta, GA, U.S.

Quantitative Analyst (Intern)

05/2018 – 07/2018

- Conducted quantitative evaluations and provided recommendations on the investments in the Ronald McDonald Care Mobile program and the Pilot program by using both supervised learning and unsupervised learning techniques.
- Facilitated the transition of the ED/UC volume automatic prediction project and participated in the R script programming.

World Health Organization/Pan American Health Organization, Budget and Planning

Washington, DC, U.S.

Budget and Planning Assistant (Intern)

07/2014 – 01/2015

- Participated in the maintenance of the database and conducted data entry by using SQL/VBA with excel, which expedited the data entry process by 50%.
- Analyzed the financial information on the project proposals from regional offices and provided recommendations on budgeting decisions.

PROJECT EXPERIENCE

The Carter Center

Atlanta, GA, U.S.

IT Consultant, Syria Conflict Mapping Project (GT partnership project)

01/2019 – 05/2019

- Conducted machine learning experiments, such as Random Forest Regression and Shallow Neural Network, to predict the monthly number of conflict events in order to build up an early warning system.
- Conducted machine learning/statistical learning experiments with Bayesian Classifier, Deep Neural Network and Logistic models to do automatic text classification on event types.
- Built up a data entry tool with VBA to help the user to modify the data and upload the data to SQL server semi-automatically.

RESEARCH

- 1, Do College Degrees of Employees Have Impacts on Firm Performance: Insights from Non-linear Approach, Chapter 3 of the Dissertation.
- 2, An Investigation on the Demand in the Loan Market: A Structural Model of Customer Choice, Chapter 2 of the Dissertation.
- 3, What Are the Determinants that Make Chinese Firms Go Public Overseas: An Empirical Investigation, Chapter 1 of the Dissertation.
- 4, Imputation of Numeric Missing Values with Ensemble Learner, working paper.
- 5, An Alternative Explanation of Home Bias in the International Equity Market: From the Perspective of Adverse Selection, working paper.