

# Guangji (Ji) Tang

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## EDUCATION

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**Brandeis International Business School** **Waltham, MA**  
**Candidate for Master of Science in Business Analytics (STEM-Designated)** 08/2022 - 12/2023  
*Relevant Coursework:* Applied Econometrics with R, Foundations of Data Analytics, Information Visualization

**Peking University, School of Mathematical Sciences** **Beijing, China**  
**Bachelor of Science in Information and Computing Science** 09/2018 - 07/2022  
*Relevant Coursework:* Artificial Intelligence, Foundation of Machine Learning, Intro to Database System, Digital Image Processing, Digital Signal Processing, Data Structure & Algorithm, Analysis & Design of Algorithms, Programming Techniques and Methodology

## TECHNICAL SKILLS

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**Programming Languages:** Python, SQL, R, MATLAB, C++  
**Computer Software:** Advanced Microsoft Excel  
**Analytics:** Machine Learning, Convolutional Neural Network, Data Visualization, Predictive Modeling, Data Mining

## WORK EXPERIENCE

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**China Data Analysis Committee** **Beijing, China**  
**Assistant Algorithm Intern** 06/2021 - 08/2021

- Carried out horizontal analysis to compare the data analysis platforms in the same industry
- Performed raw data sets preprocessing and cleaning to improve its applicability
- Tested and enhanced the machine learning algorithm library through the use of Python

**China Unicom Big Data Co., Ltd** **Beijing, China**  
**Assistant Algorithm Intern** 01/2020 - 03/2020

- Introduced pre time domain segmentation of speech recognition atomic algorithms; reduced the time complexity and improved the recognition accuracy using the knowledge of Fast Fourier transform
- Used Python to help build a traffic video intelligent analysis system for the Beijing Municipal Transportation Department and develop the municipal traffic perception analysis functions
- Assisted in the construction, optimization, model training and testing of face recognition atomic algorithms

**Huatai Life Insurance Co., Ltd.** **Beijing, China**  
**Actuarial Intern** 08/2019 - 09/2019

- Conducted an analysis on the relationship between organization structure and the commission arrangement
- Collected, cleaned, and organized the company's actuarial data, past rate tables, and recent claims data

**Wo Pay** **Beijing, China**  
**Data Science Intern** 01/2019 - 03/2019

- Performed information visualization on real-time data and created alerts for warning of critical activities
- Coordinated with team of four to assess the overall cyber security framework, made recommendations based on the results of static and penetration tests, drafted research reports based on historical data

## ACADEMIC PROJECT

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**Peking University** **Beijing, China**  
**Thesis Paper** 12/2021 - 06/2022

- Designed a convolutional neural network frame based on the combination of the features extracted from spectrograms and artificial features
- Utilized transfer learning to train the model on the MagnaTagATune dataset
- Reached a higher classification accuracy rate of 93.37% than the models without the use of artificial features

## ACTIVITIES/SKILLS

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**Volunteer:** Taught at a rural village in China for over 150 hours; Advanced math tutoring at Peking University  
**Languages:** Chinese Mandarin (Native), English (Proficient)