

Zijun Zhou

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EDUCATION

New York University, Tandon School of Engineering, Brooklyn, NY Jul 2023
Master of Science Candidate, Applied Urban Science and Informatics, GPA: 3.9/4.0

Beijing University of Technology, Faculty of Science, Beijing, China Jul 2022
Bachelor of Science, Statistics, GPA: 3.8/4.0

SKILLS

Technical Skills: Python, R, Hadoop, Spark, SQL, SPSS, Weka, Microsoft Excel, ArcGIS Pro, ArcGIS Online, Tableau
Languages: English (fluent), Mandarin (fluent)

EXPERIENCE

Data Analyst Intern: *Kingsoft Shiyou Interactive Entertainment Technology Co Ltd*, Beijing, China Jul 2021 - Dec 2021

- Utilized advanced data analysis techniques to optimize performance for 2 different overseas game groups.
- Conducted thorough data analysis of player behavior by tracking events using SQL and Excel, resulting in improved player engagement and retention.
- Employed predictive modeling and clustering techniques with R to generate actionable insights and optimize game design.

PROJECTS

Multimodal Machine Learning for Spatiotemporal Identification of Sound Sources in the NYC Subway System (Python) Jan 2023 - Jul 2023

- Extracted essential train information from videos using Python, including station stops and route details.
- Conducted statistical analysis on the train information and performed spatial analysis using ArcGIS Pro.
- Identified train events such as stopping and moving based on timestamps.
- Utilized machine learning algorithms, including Detic, Deep SORT, and XMem, to detect and track objects (such as people and traffic lights) in video clips within subway stations, extracting valuable information regarding the time of object appearance and the overall count of objects.
- Conducted correlation analysis and visualized data by integrating audio intensity data and crowd count data from video clips.
- Shaped design concepts and curated content for an interactive website providing an in-depth overview of New York City subway noise.

Jersey City Bike Infrastructure Analysis (ArcGIS Pro) Fall 2022

- Analyzed Jersey City's bike lanes and CitiBike distribution using ArcGIS Pro spatial analysis.
- Evaluated the demographic distribution near existing bike-related facilities in Jersey City.
- Assessed the accessibility of bicycle-related facilities in Jersey City in relation to other forms of public transportation.
- Mapped out where bike-related accidents occur and explained their possible causes.
- Proposed new bike lanes and CitiBike station locations based on the above analysis to improve connectivity and equity.

VOLUNTEER

Volunteer Team Leader in the Logistics Field: *Olympic Winter Games Beijing 2022*, Beijing, China Jan 2022 - Mar 2022

- Developed logistics needs questionnaires for delegation members and conducted descriptive statistical analysis and data visualization using R language based on the collected data.
- Addressed inquiries from delegation members at the service desk.
- Provided professional Chinese-English translation services for the delegation and logistics team, facilitating the transportation of their luggage to the designated floors.

HONORS & REWARDS

NYU Tandon School of Engineering Graduate Scholarship Sep 2022 - May 2023
Honorary Title of Excellent Student Leader Dec 2020
Second Prize in Beijing, Contemporary Undergraduate Mathematical Contest in Modeling Oct 2020
Outstanding Study Scholarship Dec 2019