

YU QIAO CHEN (TOM)

1(347)-399-6961 | tomchenyuqiao@gmail.com | www.linkedin.com/in/yu-qiao-tom-chen

Education

Baruch College CUNY

08/2019 - 12/2020

Master of Science, Information Systems, concentration in Data Analytics | GPA 3.69

Hunter College CUNY

09/2014 - 05/2019

Bachelor of Arts, Geography | Bachelor of Arts, Chinese | GPA 3.8

Experience

Data & GIS Analyst • Metropolitan Transportation Authority

09/2022 – Present

- Developed Power BI dashboards leveraging MTA source system data to evaluate project performance within the MTA's Capital Program. Responsibilities included data acquisition, pipeline creation, visualization design, application testing, dataset and dashboard maintenance, user manual documentation, technical documentation and report generation.
- Collaborated with and supported internal stakeholders in developing Power BI reports, streamlining workflows by automating previously manual reporting processes.
- Designed and implemented an automated spatial analysis tool in Python to assign political district information (e.g., city council, state senate) to MTA asset records.
- Contributed to the redesign of the Master Project List SQL database by analyzing tables, data types, and entity relationships across multiple source systems. Updated technical documentation and diagrams to reflect database changes and ensure accuracy.

Associate EP (GIS & Analytics) • Consolidated Edison Company of New York

12/2020 – 09/2022

GIS Analyst Aide • Consolidated Edison Company of New York

01/2019 – 11/2020

- Managed and maintained the Pipeline Integrity Information Management System (PIIMS) to ensure compliance with Pipeline and Hazardous Materials Safety Administration (PHMSA) regulations. Responsibilities included managing database access, implementing maintenance procedures, performing QA/QC tasks, ensuring data integrity, and entering up-to-date gas transmission data.
- Utilized the Kiefner Risk Model to analyze, evaluate and rank gas transmission pipeline risk scores and failure consequences.
- Conducted data and spatial analysis using internal and external datasets for various gas integrity initiatives to identify threats in the gas transmission system. Assessed identified threats and developed mitigation plans and recommendations accordingly.
- Supported the development of CECONY's Enterprise Geographic Information System and gas work management system by producing a unified Gas Transmission dataset combined from different internal systems for them.
- Led a document metadata maintenance effort for over 75,000 Gas Transmission project files.
- Supervised two college interns by assigning work tasks, monitoring their progresses, and providing feedback on their performances.

Geographic Research Intern • New York City Department of Sanitation

06/2018 - 08/2018

- Built an address locator from public data to geocode trash set-out locations for over 100 NYC public schools to increase field inspection efficiency.
- Conducted spatial analysis using open data to research the diversion rate of various NYC neighborhoods.
- Created maps for various NYC Recycling Programs to graphically illustrate the distribution and quantity of the programs' participants.
- Conducted geographic data validation for over 300 bin delivery addresses of the NYC Organic Recycling Program.

Geographic Analyst Intern / Census Employee • New York City Department of City Planning

01/2018 - 05/2018

- Participated in the preparation of the 2020 U.S. Decennial Census survey form mailing list for New York City. Task include validating the quantity of housing units for over 1,000 addresses through field visits and internet research.
- Conducted research on addresses, streets, and properties to update Place Address Directory (PAD) with accurate addresses and building identification numbers for use in Geographic Online Address Translator (GOAT).

Skills

ESRI ArcGIS Suite | QGIS | ENVI | SQL | Python | Tableau | PowerBI | Power Automate | Microsoft Office Suite