

# Vivian Chen

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## SUMMARY

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Urban data scientist with 3+ years of experience in creating and aggregating data, generating visualizations, and writing documentation. Strong interests in understanding urban infrastructure patterns, public transportation accessibility, and intuitive design. Seeking full time fall opportunities to apply and enhance data mining and programming skills to create solutions for real-life applications, urban issues, and company efficiency.

## EDUCATION

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### NYU Center for Urban Science and Progress

Expected Graduation: 07/2020

Master of Science in Applied Urban Science and Informatics

- Capstone Project: A Data-Driven Approach to Preserving NYC Nightlife Cultural Spaces

### Macaulay Honors College at Hunter College (CUNY)

New York, NY

Bachelor of Arts in Geographical Information Science

08/2015 - 06/2019

- Minors in Computer Science and Media Studies

Member of Gamma Theta Upsilon (2019)

## TECHNICAL SKILLS

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- **Languages and Database Applications:** Python, SQL, VBA, Microsoft Access
  - Currently learning: Hadoop, MapReduce, HDFS, Apache Spark, AutoCAD
- **GIS Software:** ArcMap, ArcGIS Pro, QGIS Desktop
- **Design:** HTML, CSS, Adobe (Photoshop, Illustrator)

## WORK EXPERIENCE

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### New York City Economic Development Corporation

01/2020 - Present

Transportation Intern (Planning Department)

- Analyzing residents' MTA travel patterns to determine potential housing development locations using publicly available data, Python, and Excel
- Compiling and standardizing bathymetry data for NYC waterfronts under NYCEDC jurisdiction
- Active social media research on COVID-19 impacts on the trucking industry

### New York City Department of Transportation

GIS College Aide (Asset Management Unit)

03/2018 – 02/2020

- Built and maintained geodatabases through customized scripts using Python, SQL, and VBA
- Created and updated maps and metadata of NYCDOT assets through ArcMap, ArcCatalog, and QGIS
- Generated dashboards using MS Excel and MS Access for data visualization and projection analysis
- Through MS Access, designed a database to track seating arrangements for all DOT floors within the 55 Water St. building to streamline the agency's emergency preparedness procedures

### Barnard College, Empirical Reasoning Center

08/2019 - 12/2019

Teaching Assistant (Intro to GIS Methods)

- Supported Prof. Alisa Rod by guiding students on using GIS, grading labs, and holding weekly office hours

### The Graduate Center, City University of New York

Research Intern

08/2017 - 01/2019

- Conducted research to create a database of NYC architecture and generated an [interactive map](#) via CARTO for Dr. Elizabeth Macaulay-Lewis' publication: Classical New York Discovering Greece and Rome in Gotham

## HONORS AND AWARDS

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- **NYU CUSP Academic Scholarship** 2019 - Present
- **William E. Macaulay Scholarship** 2015 - 2019