

Guangyu (Tim) Wu

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EDUCATION

COLUMBIA UNIVERSITY

MS IN DATA SCIENCE

May 2022 | New York, US

Cum. GPA: 3.9 / 4.0

NEW YORK UNIVERSITY

BS IN DATA SCIENCE

BS IN BUSINESS & FINANCE

May 2020 | Shanghai, CN

Dean's List (All Years)

Cum. GPA: 3.9 / 4.0

TEL AVIV UNIVERSITY

CYBER SECURITY PROGRAM

June 2017 - Aug 2017 | Tel Aviv, IL

COURSEWORK

GRADUATE

Machine Learning for Data Science

Exploratory Data Analysis

Advanced Big Data & AI

Statistical Inference & Modeling

Causal Inference

Mapping 19th Century New York (Audit)

Advanced Spatial Analysis (Audit)

UNDERGRADUATE

Chinese Migrant & Diasporic Networks

Machine Learning, Databases

Optimization & Math Programming

Interaction & Communications Lab

VR / AR Fundamentals

University Leadership Honors Course

EXTRACURRICULAR

Event Organizer NYC Open Data Week

Youth Representative to the U.N.

Co-founder of NYU China-US

Entrepreneur & Innovation Club

Organizer of NYU Shanghai Summer

Service Learning Program

MEDIA

Data Science, History Students Team Up
to Uncover NYC Immigrant Lives 

Tim Wu Guangyu '20: From Century
Avenue to Huaihua City to the UN 

RESEARCH EXPERIENCE

CENTER FOR SPATIAL RESEARCH, COLUMBIA UNIVERSITY | ASSOCIATE RESEARCH SCHOLAR

Aug 2022 - Now | New York, US

- Extract footprints, land use, addresses from atlases with machine learning.
- Match historical and modern tax lots for longitudinal linkage of urban space.
- Lead graduate RAs to develop new methods of map extraction and geocoding.

GRID3, CIESIN AT EARTH INSTITUTE | GRADUATE RESEARCH ASSISTANT

Oct 2021 - May 2022 | New York, US

- Combined geospatial clustering and fuzzy match to link health facility records.
- Detected false-positive human settlement areas with spatial machine learning.

CAPSTONE | NYC DEP DATA ANALYSIS FOR SAFER FLEET OPERATION

Feb 2022 - May 2022 | New York, US

- Predicted the frequency of risky behaviors using high-frequency GPS data.
- Generated personalized risk heat map for drivers to improve driving.

PROJECT | IMBALANCED RECOVERY OF NYC SUBWAY FROM COVID-19

Feb 2022 - May 2022 | New York, US

- Modeled subway ridership with high spatio-temporal resolution datasets.
- Quantified the demographic, environmental factors of imbalanced recovery.

HUMANITIES RESEARCH LAB, NYU | ADJUNCT RESEARCH ASSOCIATE

June 2020 - May 2021 | Shanghai, CN

- Coordinated a multidisciplinary team to mine insights from historical sources.
- Built interactive data exploration tools to empower research and teaching.

PUBLICATIONS

- Yuan Y., **Wu G.** "Problems and Potentials of Teaching Design Thinking as Online Courses in the Chinese Context." *Springer Nature Soc Sci* Vol. 1, 143 (2021).
- Vyas D., Rogan E., **Wu G.**, Galal S. "Social and Emotional Development in a Telehealth-Based Ambulatory Care Skills Course." *AJPE* Vol. 86, 4 (2021).

PROFESSIONAL EXPERIENCE

RHODIUM GROUP | DATA SCIENCE INTERN

June 2021 - Sep 2021 | Shanghai, CN

- Created an automatic data pipeline to periodically collect investment data.
- Designed dashboards for visualizing trends of companies based on latest news.

ACCENTURE | TECHNOLOGY CONSULTING PROGRAM ASSISTANT

Sep 2020 - Dec 2020 | Shanghai, CN

- Deployed a secure, scalable cloud landing zone for an MNC with AWS Cloud.
- Communicated with multi-culture client team to perform knowledge transfer.

TRANSWARP | AI TEACHING & RESEARCH INTERN

June 2020 - Aug 2020 | Shanghai, CN

- Developed case studies and recorded lectures for an online ML curriculum.
- Conducted web traffic analysis for a university client with visual AI interfaces.