

# Jonathan Yuan

## Contact

jonoyuan@alumni.upenn.edu

## Portfolio

jonoyuan.github.io

**University of Pennsylvania**  
**Master of City Planning** GPA 3.8  
Transportation Planning  
Aug 2017– May 2019

**New York University**  
**Bachelor of Arts** GPA 3.7  
Economics, Informatics  
Aug 2012– May 2016

## Education

Data	Computing	Language
Excel	Python	English
R	JavaScript	Mandarin
SQL	Git, Atom	French

Spatial and Modeling	Design
ArcGIS	Adobe Creative
VISUM/VISSIM	HTML, CSS
	MS Word

## Skills

## Work

### Urban Spatial

Prof. Ken Steif  
Philadelphia, PA  
Sept 2018 – present

### Philadelphia Chinatown Development Corp.

Philadelphia, PA  
Sept 2018 – present

### Office of Transportation, Infrastructure, and Sustainability

Philadelphia, PA  
Sept 2018 – Dec 2018

### San Francisco Municipal Transportation Agency

San Francisco, CA  
May 2018 – Aug 2018

### African Cultural Alliance of North America

Philadelphia, PA  
Jan 2018 – May 2018

### GIS/Forecasting Analyst

- Write machine learning and regression models to predict planning issues, including traffic congestion, flood and wildfire risk, housing code violations, and bike share rebalancing
- Optimize predictions and wrangle large public data sets (1M+ rows) in R, JavaScript, and ArcGIS
- Build video presentations, visualizations, and interactive webmaps to convey findings

### Community Development Planner

- Perform fiscal and market analysis to support the new 150-unit mixed use Eastern Tower Community Center and the 20,000-attendee annual Night Market (夜市)
- Serve the Chinatown community through workshops, events, and direct engagement
- Assess parking needs through policy review and a survey of 100+ Chinatown stakeholders

### Vision Zero Consultant

- Advise the City of Philadelphia on Vision Zero policy aiming to eliminate traffic deaths by 2030
- Compile, analyze, and visualize crash data on the High Injury Network using R and ArcGIS
- Prepare strategies to build consensus for Vision Zero among community members and the city
- Present 40+ new planning and safety practices for Philadelphia city agencies

### Transportation Planner

- Independently executed a capital assessment study to direct investment in EV charging, integrating transportation policy concerning complete streets, climate action, and safety
- Supported multimodal planning and engineering projects, including signal timing for Bus Rapid Transit, dockless bike share and electric scooter permits, and interactive webmaps
- Mapped and analyzed transportation networks for ConnectSF, a 50-year transportation plan

### Planning Consultant

- Created a master plan for Southwest Philadelphia, population 60,000
- Analyzed and presented data on demographics, economy, environment, and community
- Designed graphs, charts, and maps using ArcGIS, Adobe InDesign, and Adobe Illustrator

## Projects

### SexGen Policy Lab

Univ. of Pennsylvania  
Philadelphia, PA  
Sept 2018 – present

### Professor Erick Guerra

Univ. of Pennsylvania  
Philadelphia, PA  
Sept 2017 – Mar 2018

### Bike & Build

Southern US  
May 2018 – Aug 2018

### Bike New York

New York, NY  
Sept 2015 – May 2017

### Gender and Policy Researcher

- Build research on diversity, inclusion, and equity in planning, economic, and housing policy
- Interview transgender subjects in mixed-methods study measuring travel stress
- Track and model stress levels on during travel using GPS, eye tracking, and biometrics

### Transportation Researcher

- Researched and analyzed crashes and commute patterns in 100 US and Mexico metro areas
- Translated technical US Census, and Mexico Intercensal data into non-technical narrative
- Performed spatial, raster, and statistical analysis using R, Python, and ArcGIS

### Rider, Fundraiser, and Volunteer

- Cycled 4,000 miles over eleven weeks from Jacksonville, FL to Monterey, CA
- Helped raise \$500,000 for affordable housing, distributed to local non-profits
- Constructed affordable housing in communities of need in nine US cities

### Volunteer Marshal and Instructor

- Marshalled over 30,000 riders in the Five Boro Bike Tour and other local events
- Gave instruction on bicycle use, repair, and maintenance as part of BNY's free programming