

# Yuxuan Mei

(646) 830-3939

yuxuan.mei@columbia.edu

merlinyx.github.io

## Education

### Columbia University in the City of New York

Expected May 2019

Bachelor of Science in Computer Science

GPA: 4.061/4.33

- Coursework: Analysis of Algorithms, Computer Animation, Computer Graphics, Computer Vision, Machine Learning
- Honors: Dean's List ('15-'18), SelfScore Scholarship ('17), Google Intern GHC Travel Grant ('17)

## Work Experience

### Software Engineering Intern

May 18 - Aug 18

DoubleClick for Publishers team at Google, New York, NY

- Designed and implemented a FlumeJava pipeline to process front end activity logs to generate an activity graph
- Refactored an internal tool and incorporated the activity sequence visualization into the tool
- Reviewed internal use cases with UX, PM, and other SWE teams to improve the pipeline, documented the general usage, and familiarized other teams with example use cases

### Engineering Practicum Intern

May 17 - Aug 17

Keyword Planner team at Google, Los Angeles, CA

- Created an overview page in the app Keyword Planner that displays forecast data using Angular Dart and Sass
- Created a data service on the front end server to serve data for the overview cards using Java
- Implemented a backend API to support location-based forecast data for the data service using Java
- Collaborated with another Google team to coordinate sharing components and styles with our project

## Research and Teaching Experience

### Undergraduate Researcher

Sep 18 - Present

with Prof. Changxi Zheng, Columbia University, New York, NY

- Researched on noise removal and learning-based audio processing literature and summarized existing methods
- Wrote scripts to crawl watermarked audio data from stock music websites, analyze patterns of watermark insertion, and convert audio into spectrograms as training data for training different neural network architectures in PyTorch

### Teaching Assistant at Columbia University, New York, NY

Sep 16 - Present

(Intro to CS in Java, F16 to S18, Head TA in F18, S19; Computer Graphics, S18, S19; Computer Animation, F18)

- Coordinate and support course staff to make the course experience better for students
- Answer questions and help with debugging during weekly office hours and through online platforms
- Grade homework with detailed feedback, lead recitations, and improve homework starter code and documentation

### Undergraduate Researcher

Sep 17 - Dec 17

with Prof. Steven Feiner, Columbia University CGUI Lab, New York, NY

- Worked with VR researchers to create visualizations of foliage using Unity packages with custom C# scripts

### Undergraduate Researcher

Sep 16 - Jan 17

with Prof. Douglas Almond, Columbia University Economics Department, New York, NY

- Crawled pollution monitoring data from static and dynamic web pages using Python with Redis for crawler job scheduling
- Cleaned the data to CSV files and SQLite databases for further statistical analysis

## Leadership and Extracurricular Experience

### Corporate Chair at Columbia Womxn in Computer Science, New York, NY

Apr 16 - Present

- Connect with corporate sponsors to plan and fund events and scholarships to help build the WiCS community on campus

### Illustrator at Columbia Science Review, New York, NY

Sep 15 - Mar 18

- Illustrated for club publications to promote science; topics include quantum computing and cryptography

## Skills and Interests

### Languages

Mandarin (native speaker) ★ English (fluent) ★ Japanese (intermediate) ★ Korean (beginner)

### Programming/Tech

Python ★ Java ★ C/C++/C# ★ Dart ★ HTML/CSS/Javascript ★ MATLAB ★ SQL

PostgreSQL ★ sqlite3 ★ git ★ L<sup>A</sup>T<sub>E</sub>X ★ Unity ★ OpenGL ★ FlumeJava ★ PyTorch

### Other Interests

singing ★ walking ★ drawing ★ cooking