Yuxuan Mei

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Education

University of Washington, School of Computer Science & Engineering — Expected 2024
Ph.D. in Computer Science, Allen School CSE Research Fellowship ('19)

Columbia University, School of Engineering and Applied Sciences — May 2019
B.S. in Computer Science, *summa cum laude* — GPA: 4.07/4.33
Honors: Dean's List ('15-'18), Russell C. Mills Award ('19)

Research and Teaching Experience

Research Assistant — Jun 19 - Present
with Prof. Adriana Schulz, University of Washington, Seattle, WA
- Currently working on developing simulation methods for computational fabrication

Undergraduate Research Assistant — Sep 18 - May 19
with Prof. Changxi Zheng, Columbia University, New York, NY
- Researched on noise removal and learning-based audio processing literature and summarized existing methods
- Scraped and analyzed audio datasets, and trained and evaluated neural networks with custom training data using PyTorch

Teaching Assistant at Columbia University, New York, NY — Sep 16 - May 19
(Intro to CS in Java, F16 to S18, Head TA in F18, S19; Computer Graphics, S18, S19; Computer Animation, F18)
- Coordinated and supported course staff to make the course experience better for students
- Answered questions and helped with debugging during weekly office hours and through online platforms
- Graded homework with detailed feedback, led recitations, and improved homework starter code and documentation

Undergraduate Research Assistant — 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 Research Assistant — 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

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 and its documentation

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

Leadership and Extracurricular Experience

Corporate Chair at Columbia Womxn in Computer Science, New York, NY — Apr 16 - May 19
- Connected 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	Chinese (native speaker), English (fluent), Japanese (intermediate), Korean (beginner)
Programming/Tech	Python, Java, C/C++/C#, Dart, HTML/CSS, SQL, git, LaTeX, OpenGL, FlumeJava, PyTorch
Other Interests	singing, walking, drawing, cooking