

# GEORGINA WOO

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## EDUCATION

### Hunter College, CUNY

Bachelor of Arts, Computer Science / Theatre, *Phi Beta Kappa, Magna Cum Laude*

May 2025

New York, NY

### Republic Polytechnic

Diploma (With Merit) - Arts and Theatre Management (Technical Theatre)

May 2019

Singapore, Singapore

## WORK EXPERIENCE

### Research Associate

Kanwisher Lab, Brain and Cognitive Sciences, Massachusetts Institute of Technology May 2024 – May 2025

- Developing machine learning models to analyze and extract contact-related features from deep learning models.
- Using Unity, Blender, and C# to generate a large scale dataset to train ML models in physics understanding.
- Using ML model features and f-MRI data to find correlations between neural networks and human brain function.

TIER (Trustworthy, Intelligent, Explainable Robotics) Lab, Hunter College

Jan 2024 – May 2025

- Developing vision-based pose estimation and F-formation analysis for social robot navigation on Duckiebots and Misty II.

Computer Vision Lab, Hunter College

May 2023 – May 2025

- Developing AR applications for a MagicLeap headset, using Unity3D to implement mesh building and hand tracking for real world reconstruction and interaction.

### Programming Instructor

Quantitative Methods Workshop, Massachusetts Institute of Technology

Jan 2025

- Designed course material, problem sets, and Kahoot quizzes, and taught 4 interactive labs (2-3 hours each) to a class of 81 students and faculty. The topics covered introductory Python programming and debugging, plotting and curve fitting, and machine learning applications to neuroscience.

### Software Engineer

Department of Computer Science, Hunter College, New York, NY

June 2023 – May 2025

- Designing programming projects in the style of classic role-playing games to strengthen students' proficiency in implementing OOP concepts in C++, supplemented by starter code, datasets, guides, and test cases.
- Developing Python autograder scripts to grade and deliver personalized feedback on students' code for 250+ submissions.

### Teaching Assistant

Department of Computer Science, Hunter College, New York, NY

Jan 2022 – May 2025

- Tutoring students in beginner to advanced Python and C++ programming, computer theory and formal languages, AI, Robotics, and Machine Learning, facilitating improved comprehension and application of abstract or theoretical concepts.

### Technical Theatre Engineer

Freelance, Singapore / New York, NY

Mar 2017 – May 2025

- Fulfilling various roles in the entertainment industry such as Stage Manager, Lighting Designer, and Production Assistant.

## PROJECTS

**Mastermind Tournament** | A Mastermind tournament framework in Python to evaluate AI agents

Fall 2024

**MIT Summer Research Program** | 10-week research internship in the Kanwisher Lab

Summer 2024

**Algorithmic Adventures** | C++ projects that use data structures and algorithms to create a turn-based RPG

Fall 2023

**May's Mandala** | Design and fabrication with of 24 EVA foam puppets for a theatre production

Spring 2023

**Monster** | Design and fabrication of a Monster with EVA foam and 3D printing for a theatre production

Spring 2024

## Co-CURRICULAR

**Quantitative Methods @ MIT** | Using programming and machine learning to analyze and model experimental data

Jan 2024

**CUNY Tech Prep** | Project-based data science course

Fall 2024

## AWARDS, FELLOWSHIPS & CERTIFICATIONS

**AIMM:CS Fellowship** | National Science Foundation

March 2025

**John P. McNulty Scholarship** | Hunter College

Spring 2024

**Machine Learning Foundations** | Break Through Tech and Cornell Tech

Aug 2023

**Certificate of Achievement - Intermediate iOS Development** | CodePath

Nov 2022

## SKILLS

**Programming Languages and Version Control:** Python, C++, Unix, C#, HTML, CSS, Javascript, Swift, SQL, MATLAB, Git

**Software:** LaTeX, AutoCAD, SketchUp, Vectorworks, Unity3D, Blender, Adobe Photoshop/InDesign, Microsoft Office

**Languages:** English (Native), Mandarin (Proficient)