

# Wanjia Fu

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## EDUCATION

### Brown University

Providence, RI | **Expected Graduation May 2026**

*Expected Sc.B in Computer Science and A.B in Applied Mathematics*

• Relevant Courses: (*grade: A*): Deep Learning, Applied Statistics in Python, Learning and Sequential Decision Making, Operations Research: Probabilistic Models, Computational Probabilities and Statistics, Honors Statistical Inference, Computer Vision, Computer Graphics, Introduction to Software Engineering (*grade: S\**), Intermediate Microeconomics, Intermediate Macroeconomics, Abstract Algebra, Honors Linear Algebra, Applied Partial Differential Equations, Honors Multivariable Calculus, Applied Ordinary Differential Equations; (*expected grade: A*): Computer Networks, Design and Analysis of Algorithms, Real Analysis

## RESEARCH & PROJECTS

### Brown Interactive 3D Vision & Learning Lab, Undergraduate Research Assistant

Providence, RI | **Jan 2024 – now (ongoing)**

- Work on the project Vibration Haptics with Dr. Srinath Sridhar, incorporating Inertial Measurement Unit (IMU) with RGB camera data to improve hand-object contact detection and localization, with the hardware advantage of portable wrist device
- Work on Brown Interaction Capture System (BRICS) with professor Dr. Srinath Sridhar, participating in the hardware assembling and software calibration for the room-sized capture studio

### Brown Visual Computing Lab, Student Researcher on Course Development

Providence, RI | **June 2023 - Aug 2023**

- Employed front-end and back-end development using Javascript, HTML, and CSS to create an online website tutorial on camera projection and perspective projection for the class Computer Vision for professor Dr. James Tompkin
- Improved upon two existing online tutorials on affine transformations and the fundamental matrix

### Brown Intelligent Robot Lab, Undergraduate Research Assistant

Providence, RI | **Aug 2023 – now(ongoing)**

- Worked on ROS and reinforcement learning, Boston Dynamics Spot robots, and KUKA robotic arms with radar cameras
- Work on shaped-based skill transfer, warping trajectories to carry out a skill for a category of objects after seeing a few demonstrations and trying to learn a robust skill for all shapes of the same object category, with advisor Dr. George Konidaris

## INTERNSHIP & EXPERIENCE

### Hydsoft Technology Co. Ltd., Product Operation Intern

Shanghai, China | **May 2023 - Jun 2023**

- Designed AI customer service based on Baidu UNIT and NLP as an intelligent customer service product operation engineer
- Received the PaddlePaddle AI Technical Engineer Certificate
- Received the Certificate of Achievement as Intelligent Customer Service Product Operation Engineer by Baidu AI Cloud
- Worked and attended meetings as part of the team for China Mobile Smart Card Production Platform

### Brown University, Undergraduate Teaching Assistant

Providence, RI | **Jan 2024 - May 2024**

- Work as one of the 24 undergraduate teaching for the class CSCI 1430 Computer Vision
- Engaged in course development, improved its webpage, Github repository, Gradescope autograders, and assignment code management
- Graded and attended TA Hours and ED Hours for projects on image filtering, feature matching, camera geometry, scene classification, convolutional neural network, and a computer vision final project

### Brown University, Head Teaching Assistant

Providence, RI | **Sep 2024 – Dec 2024**

- Work as one of the two head teaching assistants for the class CSCI 1430 Computer Vision
- In addition to usual teaching assistant work, organize fellow ten undergraduate teaching assistants, directly help manage and develop the course with professor Dr. Srinath Sridhar, and host weekly grading/staff meetings

## SKILLS & INTERESTS

**Technical Skills:** (fluent) Python, HTML, CSS; (experience) Java, C++, C, Typescript, Javascript, WebGL, OpenGL, Golang, React

**Language:** Trilingual proficiency in English, Spanish (Awarded C1 by El Instituto Cervantes), Chinese

**Interests:** Semi-professional Chinese traditional dance, piano, taekwondo, novel writing, painting, drums, guitar, and tennis

## ACTIVITIES & LEADERSHIP EXPERIENCE

### Brown IgniteCS, Member

Providence, RI | **Sept 2023 – May 2024**

- Designed and developed a series of courses related to AI and taught as guest lecturer at Nathanael Greene Middle School
- Designed and developed the coding club on HTML, CSS at the Sophia Academy coding club for 1.5 hours per week

### Brown Moli East Asian Dance Company, Co-Secretary Chair; Co-Director

Providence, RI | **May 2022 – now(ongoing)**

- Organized members, logistics, and finance for the club, communicate with student activities office and financial supervisors
- Prepare for annual spring show, teach Chinese dances, organize rehearsals, participate in shows on and off campus