

# WU Yutong, Yvonne

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## Education

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### Nanjing University

Sept. 2023 – Jun. 2027

*BS in Computer Science and Technology*

- **GPA:** 4.46/5.00
- **Relevant Coursework:** Probability Theory and Mathematical Statistics, Discrete Mathematics, Linear Algebra (Tier 1), Calculus(Tier 1), Advanced Programming, Finding Information on the Internet, English for International Academic Communication

### University of British Columbia, Canada

Sept. 2025 – Jan. 2026

*exchange student*

## Selected Awards

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### Outstanding Student

College of First-Year Students, Nanjing University, 2023-2024

### Outstanding Student Cadre

Kai-Jia Academy, Nanjing University, 2023-2024

### Outstanding Student Volunteer

Nanjing University, 2024

### People's Scholarship Second Prize (10%)

Nanjing University, 2024

## Research Experience

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### Research on Multimodal Lie Detection System Based on BCI

Oct. 2024 - Present

*Under the supervision of Associate Prof. Feng Guihuan*

- Designed experiments, recruited participants, and collected data.
- Developed a Python program using OpenCV and dlib libraries for real-time facial landmark detection, enabling automatic recognition and logging of facial actions such as blinking, lip pressing, and brow furrowing, with real-time data recording in a CSV file.
- Aligned the collected data and trained a Long Short-Term Memory model for lie detection.

### Research on the Relationship Between Diplomatic Language and Public

Jan. 2025

### Opinion

*Collaborated with member from School of Politics and International Relations, Lanzhou University, and was responsible for coding and data processing and analyzing.*

- Utilized Python and relevant libraries, including Selenium, Pandas, and NLTK, to automate the extraction, preprocessing, and standardization of tweets from U.S. political figures on Twitter concerning Japan-U.S. relations, providing high-quality inputs for subsequent text analysis, topic modeling, and sentiment analysis.
- Utilized VADER sentiment analysis to assess the foreign policy-related tweets of U.S. political figures and normalized the sentiment scores for comparability, while quantifying Japanese public attitudes toward the U.S. through weighted sentiment classification.
- Completed a method centered on regression analysis and Structural Equation Modeling (SEM) to test mediating effects between variables.

## Leadership and Volunteer Experience

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### New Media Center of Kai-Jia Academy

Sept. 2023 - Jun. 2024

*Vice Director*

- Managed and maintained media platforms such as public accounts, formatting posts, and distributing related articles and videos.
- Designed and produced promotional materials for large-scale events, such as posters.

### Nanjing University Admission Office for Zhejiang Province

Jun. 2024

*Student Volunteer, Core member for the Ningbo Region*

- Delivered admissions presentations, collected and analyzed student data, and conducted follow-up phone

calls.

- Awarded the Outstanding Student Volunteer Award for exceptional performance.

### **The History Museum of Nanjing University**

*Mar. 2024 - Jul. 2024*

#### *Student Volunteer*

- Collected and organized historical records of student uniforms from the Republic of China era, and produce a comprehensive long-form video for popularizing and organizing the relevant materials.

## **Projects**

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### **Tower Defense Game**

[github](#) 

- Developed a Tower Defense Game where players build and upgrade towers to defend against waves of enemies
- Tools Used: C++, Qt

### **32-bit RISC-V CPU Core on Logisim**

[github](#) 

- Completed a 32-bit RISC-V CPU Core on Logisim under the guidance of the Digital Logic and Computer Organization course laboratory experiments.
- Tools Used: Logisim

### **i386 System Emulator**

[github](#) 

- This is the Programming Assignment for the course Introduction to Computer System in Nanjing University
- Completed missing key components in the given NEMU emulator framework, implementing a simplified i386 simulator that supports cache, segmentation, paging, hard disk, I/O, and interrupts, all while adhering to the x86 instruction set.
- Tools Used: C, CMake, GDB

## **Technical Skills**

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**Programming and Analyzing:** C, Cpp, L<sup>A</sup>T<sub>E</sub>X, Python, Pytorch

**Language:** Chinese, English(TOEFL 100 L27 R25 S22 W26, CET-4 645)

**Digital Media:** Video Editing (Adobe Premiere Pro, CapCut), Poster Design (Adobe Photoshop, Canva, Procreate)