

# Xingru Wu

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## EDUCATION

### Bachelor of Science in Atmospheric Science

Zhejiang University, Hangzhou China

Sep 2020 – Jun 2024 (expected)

- **Overall GPA:** 3.93/4.00    **Rank:** 3/17
- **Selected Courses:** Atmospheric Science Programming 98/100; Computational Method 97/100; Principles of Database Systems 96/100; Atmospheric Fluid Mechanics 96/100; Optics 93/100; Organic Chemistry 94/100

## RESEARCH EXPERIENCE & INTERNSHIP

### The dependence of aerosol distribution height on different types of aerosols' radiation effects

*Research intern*, Advisor: Prof. Yi Huang, McGill University

Aug 2023 – present

- Investigated the aerosol radiative effects using the Rapid Radiation Transfer Model (RRTM).
- Deepened the understanding of the radiative effects of aerosols at different heights of the atmosphere.

### Internship Program on Weather Forecast

*Research intern*, Zhejiang Provincial Meteorological Bureau

Jun 2023 – Jul 2023

- Investigated the developing processes of typhoon 'TAILI' and extreme rainfall in mid-July in North Zhejiang.

### Microphysical and optical properties of fiber microplastics (National-level)

*Project leader*, Advisor: Prof. Lei Bi, Zhejiang University

May 2022 – May 2023

- Developed physical models of fiber microplastics based on data collected from Beijing, China.
- Implemented these models in a computational program to calculate the optical properties of fiber microplastics.

### Cause analysis of the cold waves in China

*Project leader*, Advisor: Prof. Shoujuan Shu, Zhejiang University

May 2022 – Jun 2022

- Conducted a comprehensive review of four categories of cold waves in China.
- Examined the impact of topography on the formation of cold waves.
- Explored the interaction of cold waves with large-scale weather systems.

## SKILLS

- **Programming:** Python, MATLAB, FORTRAN, Linux OS, C, NCL, LaTeX
- **Software:** SPSS, MySQL (Developed a library management system with an interactive interface), Origin
- **Languages:** Chinese (Native), English

## CONFERENCES & ACTIVITIES

### The 5<sup>th</sup> Congress of China Geodesy and Geophysics

Wuhan University

Apr 2023

- Poster presentation: Scattering Characteristics of Fiber Microplastics

### Extracurricular Activities

Zhejiang University

Sep 2020 – present

- Recognized as an outstanding volunteer with a total of 270 hours of service.
- Participated in the National English Competition for College Students.
- Served as the minister of the University Residence Hall Association of Zhejiang University.
- Served as a commissary in charge of psychology in class and provided psychological counseling.

## SELECTED AWARDS

- Zhejiang University Mathematical Modeling Competition Participation Award    Jun 2022
- Mathematics competition of Chinese College Student Winning Prize    May 2022
- Scholarship for Excellence in Atmospheric Sciences    Nov 2021
- Zhejiang University First-class Scholarship    Sep 2021
- Outstanding Student, Academic Excellence Award, Student Innovation and Entrepreneurship Award; Student Volunteer Award, International Engagement Award; Student Leadership Award    Oct 2021 & Nov 2022