

Yingqiu He

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Personal Profile

I'm an undergraduate physics student at Zhejiang University of Technology, China, with a year-long exchange experience at The University of Electro-Communications, Japan. My primary academic interests lie in theoretical physics, specifically in optics and cosmology. Currently, I'm actively seeking Master's programs and research opportunities in this field.

Education

Zhejiang University of Thechnology (ZJUT)

Hangzhou, China

BSc in Optoelectronic Information Science & Engineering

Sept 2020 - Current

- Expected to graduate with honors in July 2023
- Scholarship Recipient for Studies
- **GPA (percentage):** 3.6/5.0 (85.5%) (Top 15%)
- **Main Courses:** Analytical Mechanics, Electromagnetic Field Theory, Quantum Mechanics, Statistical Physics, Mathematical Methods in Physics, Atomic Physics, Electronic Circuit Technology, Signals and Systems, Engineering Optics

The University of Electro-Communications (UEC)

Tokyo, Japan

International Exchange Student of Japanese Univeristy Studies in Science & Technology Program

Oct 2022 - Sept 2023

- JASSO Government Scholar
- **Main Courses:** Evolutionary Computation, Photonics and Opto-electronics, Optical Communication Engineering, Polymer Photonics, Academic Skills (Average Score: 93)

Research Experience

Baryon Acoustic Oscillations Under Large-Scale Structure

ZJUT, Hangzhou, China

BSc Thesis, Supervisor: Assoc. Prof. Xinjuan YANG (Institute for Theoretical Physics & Cosmology)

Oct 2023 - Current

- Studying the fundmerntals of General Relativity and Cosmology.
- **Technical Skills:** Fortran.

3-D Imaging Using Optical Frequency Comb (OFC) Pulses

UEC, Tokyo, Japan

Research Asistant, Supervisor: Prof. Kaoru MINOSHIMA (Department of Engineering Science)

Oct 2022 - Aug 2023

- Studied fundmerntals and applications of OFC and built a basic OFC light source based on optical fiber.
- Designed and made an InGaAs image sensor-driven circuit in a PCB board, analyzed the signal data in the experimental spectrometer, demonstrated the improvement of one aspect of the image resolution system.
- Presented two posters and delivered an oral presentations at internal conferences in two universities, completed a proceeding paper titled "Image Sensor-Driven Circuit Design for Measuring Optical Frequency Comb Spectrum".
- **Technical Skills:** MATLAB, LaTeX, Fusion 360, Power Point.
- **Soft Skills:** Presentation skills, teamwork, report writing, time management, self-learning.

Skills and Addition

Programming Python (2-D FDTD Simulation), MATLAB (Coursera Certificate of Machine Learning), C (Basic).

Miscellaneous LaTeX (Overleaf/VScode), Origin, Fusion 360, Visio, Microsoft Office, Git, Illustrator.

Languages Chinese (Native), English (TOEIC 765, CET-6 536), Japanese (JLPT-N2 136)

Interests Astronomy, Foreign language, Long-distance running, Badminton, Aikido, Photograph.

Prospects Study and do research in different countries in physics field.