

# EN-CHI LEE

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SCHOOL Third-year undergraduate, University of Arizona, Tucson, AZ

## EDUCATION

2023 – now **BS in Geosciences** (emphasis in Geophysics) and **BS in Planetary Geoscience**  
University of Arizona, Arizona  
Minors: Mathematics and Oceanic/Atmospheric Sciences  
Expected graduation: May 2026  
GPA: 4.0/4.0

2022 – 2023 **BS in Geosciences** (transferred to the University of Arizona)  
National Taiwan University, Taiwan  
GPA: 4.3/4.3

## RESEARCH EXPERIENCES & WORKSHOPS

2024 – now **Undergraduate Summer Research Programme**, Undergraduate researcher  
Arizona Polar Ice Laboratory, University of Arizona, Arizona  
Mentor: Dr. Christopher Harig  
Project: Estimating Basin-Scale Ocean Mass Budgets with Satellite Gravity

- Developed MATLAB pipeline for processing GRACE satellite data and constructing Slepian functions over the oceans
- Provided mass change estimates in each ocean basin since 2003
- Quantified the spatial variance of the glacial isostatic adjustment and its impact on sea-level budget closures

- 2023      **Undergraduate Summer Research Programme**, Undergraduate researcher  
The Dynamics and Modeling Laboratory, National Taiwan University, Taiwan  
Mentor: Dr. Hung-Chi Kuo  
Project: Potential Vorticity Invertibility for Boundary Layer in Hadley Circulation
- Implemented algorithms for boundary layer dynamical adjustment
  - Evaluated the performance of the Pangu AI model in forecasting typhoons compared to numerical weather prediction
  - Developed suitable numerical methods for PDE invertibility and gained experience in operating AI models
- 2022      **IRIS Seismology Skill Building Workshop**, Participant  
Incorporated Research Institutions for Seismology (*Online*)  
Participated in the self-motivated workshop with a 99% average score
- Gained experience working with Shell scripts, Seismic Analysis Code, and ObsPy
  - Studied statistical behaviours of seismic events, earthquake positioning, and waveforms

## HONOURS & DISTINCTIONS

- 2023 – now      **Transfer Global Wildcat Award**  
University of Arizona, Arizona  
Awarded 11,000 USD/year for outstanding academic performance
- 2023 – 2024      **Dean's List with Distinction**  
University of Arizona, Arizona  
Awarded for a 4.0 GPA
- 2022 – 2023      **Fu Bell Scholarship**  
National Taiwan University, Taiwan  
Awarded 200,000 NTD/year for outstanding academic performance
- 2022 – 2023      **Presidential Award**  
National Taiwan University, Taiwan  
Awarded for maintaining a top 5% GPA within the department

2021      **International Earth Science Olympiad**, Gold medalist  
International Geoscience Education Organisation (*Online*)  
Ranked second place internationally