

# EN-CHI LEE

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

## EDUCATION

2023 – now	<b>BS in Geosciences</b> (emphasis in Geophysics) & <b>BS in Planetary Geoscience</b> University of Arizona, Arizona  Minors: Mathematics & Oceanic and Atmospheric Sciences Expected graduation: May 2026 GPA: 4.0/4.0
2022 – 2023	<b>BS in Geosciences</b> (transferred to the University of Arizona) National Taiwan University, Taiwan GPA: 4.3/4.3

## RESEARCH EXPERIENCES & WORKSHOPS

2024 – now	<b>Arizona Polar Ice Laboratory</b> , Undergraduate researcher Department of Geosciences, University of Arizona, Arizona Mentor: Dr. Christopher Harig Project: Estimating Basin-Scale Ocean Mass Budgets with Satellite Gravity <ul style="list-style-type: none"><li>• Developed MATLAB pipeline for processing GRACE satellite data and constructing Slepian functions over the oceans</li><li>• Provided mass change estimates in each ocean basin since 2003</li><li>• Quantified the spatial variance of the glacial isostatic adjustment and its impact on sea-level budget closures</li></ul>
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- 2023      **Dynamics and Modelling Laboratory**, Undergraduate researcher  
National Centre of Theoretical Sciences, 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
- Performed analysis using Shell scripts, Seismic Analysis Code (SAC), and ObsPy
  - Studied behaviours of seismic events, earthquake positioning, and waveforms

## SELECTED PRESENTATIONS

- Sep 2024      **Estimating Basin-Scale Ocean Mass Budgets with Satellite Gravity** (talk)  
University of New Mexico, New Mexico  
University of New Mexico McNair Scholar Research Conference
- Aug 2024      **Estimating Basin-Scale Ocean Mass Budgets with Satellite Gravity** (talk & poster)  
University of Arizona, Arizona  
Undergraduate Research Opportunities Consortium (UROC) Colloquium

## SELECTED 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