



# ALICIA M. CHUN

✉ [aliciamchun@uchicago.edu](mailto:aliciamchun@uchicago.edu)  [/aliciamchun](https://www.linkedin.com/in/aliciamchun)  [/aliciamchun.github.io](https://github.com/aliciamchun)

## EDUCATION

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### The University of Chicago

Chicago, IL

*Bachelor of Science Computer Science with a specialization in Human-Computer Interaction w/ a Minor in Physics*

Honors: University Scholar Award (2021), President's Scholar (2021)

Expected, June 2025

## RESEARCH EXPERIENCE

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### University of Hawai'i at Mānoa, Institute for Astronomy

Honolulu, HI

*Astrophysics REU Fellow*

May 2023 – July 2023

- Determined asteroseismic testing limitations of ground-based transient surveys, ATLAS and ASAS-SN, using space-based telescopes, TESS and Kepler.
- Used testing limitations to find the frequency of maximum value of 10,000+ red giants within TESS's continuous viewing zone and Kepler's field of view.
- Presented research in the TASC7/KASC14 asteroseismology conference.

### Subaru Telescope NAOJ—SCEXAO

Hilo, HI

*Paid Research Intern*

July 2022 – September 2022

- Characterized AO3000 deformable mirror (DM), automatized data collection between AO3000 and Zygo interferometer.
- Shared AO3000 findings with ALPAO in France to ensure issues found w/ the DM are fixed.
- Characterized modulator for SCEXAO infrared pyramid wavefront sensor, automatized data collection.

## TEACHING EXPERIENCE

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### The University of Chicago—Department of Physics

Chicago, IL

*Learning Assistant*

September 2023 - Now

- Facilitate labs for the introductory physics sequence courses.

### The University of Chicago

Chicago, IL

*Core Tutor*

September 2023 - Now

- Assist students in the physics 120s, 130s, and honors 140s sequence at The University of Chicago.

### Neighborhood Schools Program

Chicago, IL

*Tutor*

January 2023 - May 2023

- Tutored local elementary to high school students in Math, English, Science, and SAT prep.

## PRESENTATIONS/TALKS

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### American Astronomical Society 243rd Meeting

New Orleans, LA

*Poster: Testing the Detection Limits of Ground-Based Transient Surveys for Asteroseismology using TESS Data* January 2024

### Institute for Astronomy, University of Hawai'i, REU Symposium

Honolulu, HI

*Talk and Poster: Testing the Detection Limits of Ground-Based Transient Surveys for Asteroseismology using Kepler and TESS Data* July 2023

### TASC7/KASC14

Honolulu, HI

*Poster: Testing the Detection Limits of Ground-Based Transient Surveys for Asteroseismology using TESS Data* July 2023

## PUBLICATIONS

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### First Author Papers:

- Alicia Chun, Nicholas Saunders, Dan Huber, Dan Hey. *A completeness function of Ground-Based Transient Surveys for Asteroseismology of M Giants*. (in preparation)

### Co-Author Papers

- Julien Lozi, Kyohoon Ahn, Alicia Chun, et. al. *AO3000 at Subaru: the facility adaptive optics goes extreme*. (in revision)

## LEADERSHIP & ACTIVITIES

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### **Le Vorris and Vox Circus**

*President & Acrobatics Instructor*

Chicago, IL

March 2022 - Now

- Perform in aerial silks, aerial hoop, and partner acrobatics.
- Direct and write shows with 20+ performers.
- Reserve spaces, costumes, and props with Logan Staff faculty, manage ticketing finances, bridge communication between faculty, performers, and tech staff.
- Organize and teach acrobatic classes to UChicago students and faculty.

### **UChicago Competitive Traveling Tennis Team**

*Practice Coordinator*

Chicago, IL

July 2022 – September 2022

- Coordinate practice schedules, rent courts, communicate reminders for practice with the rest of the club.
- Travel to neighboring universities to play competitively.

## TECHNICAL SKILLS

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<b>Programming</b>	Java, C, Python
<b>Languages</b>	English, Limited Professional Spanish, Elementary German
<b>Tools</b>	Git, VSCode, Lightcurve, Astropy, Pandas, NumPy, Microsoft Excel