

# PIERSON LIPSCHULTZ

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## RESEARCH EXPERIENCE

### College of DuPage

Honors Independent Study ◇ GitHub

- Wrote a paper on mass transfer in binary stars
- Analyzed three observed systems
- Wrote a 30 page paper in  $\text{\LaTeX}$

Glen Ellyn, IL  
01/2025 - 5/2025

### CIERA, Northwestern University

REACH Further ◇ GitHub ◇ Visualizaions

- Worked with mentor Ilia Kiato assisting with research
- Project one: Researched and cataloged X-ray binary simulation data using python tools.
- Developed a system for analyzing subpopulations using Bokeh and a GitHub Site.
- Project two: Researched natal kick velocities in Black Holes, recreating the results of the paper A Black Hole Kicked At Birth: MAXI J1305-704.
- Created visualizations of the processes of the paper.

Evanston, IL  
06/2024 - 07/2024

## EDUCATION

### College of DuPage

Honors Scholar

Glen Ellyn, IL  
08/2024 - 5/2025

## RESEARCH SKILLS

Blender  
 $\text{\LaTeX}$   
Python  
Pandas  
Matplotlib



## OUTREACH

### President and Founder, COD Space Club

<https://codspace.club/>

- Grew club to 70 members within the first year on its inception
- Hosted outreach events including observing nights
- Gave talks and presentations

Glen Ellyn, IL  
01/2025 - Current

### Lead Ambassador, Stories of Space

<https://www.storiesofspace.com/>

- In charge of mission 4
- Helping coordinate large scale collaborations
- Marketed and encouraged college student engagement with space.

Glen Ellyn, IL  
08/24 - current

### Project Head, High Altitude Weather Balloon Collaboration

<https://sites.google.com/view/stories-of-space-project/>

- Helping coordinate large scale collaborations
- Marketed and encouraged college student engagement with space.
- Currently working in charge of Mission 4

Glen Ellyn, IL  
01/2025 - current

### Guest Speaker, Northwest Suburban Astronomers

<https://www.nsaclub.org/>

- Presented an overview of binary star properties, including X-Ray binaries, mass transfer, and stellar evolution
- Audience of  $\approx 50$  people.

Glen Ellyn, IL  
February 7th, 2025

## Misc.

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- Licenses & certifications
- Volunteering
- Publications
- Patents