

PIERSON LIPSCHULTZ

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RESEARCH EXPERIENCE

College of DuPage

Honors Independent Study ♦ [GitHub](#)

- Wrote a paper utilizing on mass transfer in binary stars
- Combined observational and simulated data
- Utilized \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

\LaTeX

Python

Pandas

Bokeh

Matplotlib



OUTREACH

President and Founder, COD Space Club

<https://codspace.club/>

- Grew club to ≈ 70 members in 2 semesters
- Hosted numerous outreach events including events at [STEMCON](#)
- Observing nights and field trips to places including Fermilab
- 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 ≈ 50 people.

Glen Ellyn, IL
2/7/2025

PUBLICATIONS

Mass Transfer in Binary Stars

[Digital Commons](#)

Glen Ellyn, IL

5/2025

Photography

[Prairie Light Review](#)

Glen Ellyn, IL

5/25

PRESS

- [College of DuPage](#)
- [Daily Herald](#)

PROJECTS

{WIP} Python Module for graphing HR diagrams of POSYDON Datasets

Independent Project ◊ [GitHub](#)

4/25 - Current

- Allows user to easily create elegant graphs in either Matplotlib or Bokeh
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