

Jordan Mamon

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Education: DePaul University, Chicago, IL. *Bachelor of Science in Astrophysics with a minor in Mathematics*, expected graduation June 2026 | Dean's List | GPA: 3.8

Relevant Coursework

Physics – Electricity and Magnetism, Quantum Mechanics I-II, Classical Mechanics I-II, Thermal Physics, Methods of Computational and Theoretical Physics I-II

Astrophysics – Cosmology, Star Formation, Stellar Astrophysics, Astronomical Data Analysis

Math – Calculus I-III, Multivariable Calculus I-II, Linear Algebra, Differential Equations, Real Analysis

Research and Presentations

“Generation and Analysis of Galaxy Cluster Color Magnitude Diagrams as a Function of Mass” | NASA Space Grant Consortium | Dr. Jesus Pando

June 2025 – November 2025

Presented at the 2025 DePaul University Undergraduate Research Symposium

- Analyzed galaxy clusters as a function of mass through the construction of Color Magnitude Diagrams utilizing the Sloan Digital Sky Survey and MATLAB to create a complex profile of galactic characteristics, with a primary focus on Magnitude, Color, Mass and redshift in order to draw conclusions about the local population of clustered regions

“Optical Spectroscopic Analysis of a Total Solar Eclipse” | NASA Space Grant Consortium | Dr. Eric Landahl

October 2023 – August 2024

Presented at the 2024 DePaul University Undergraduate Research Symposium

- Designed apparatus which collected spectroscopic data during the period leading up to, during and after Totality to identify fluctuation in the spectra of the sun and the spectra of its corona. Data was analyzed using MATLAB

Quantum Computing Internship for Physics Undergraduates | Fermilab | Dr. Henry Lamm

June 2024

- Utilized Python and Qiskit to model Mathematical and Quantum Mechanical phenomenon on Quantum Computers
- Selected content from this project was reworked and presented at the DePaul University 2024 Undergraduate Research Symposium

“Modeling Hourglass Magnetic Field Morphologies in High Mass Star Forming Regions” | Dr. Anuj Sarma

- Modeled the development of hourglass magnetic fields in star forming regions by constructing a theoretical mathematical model and by programming in Python. Additionally, this project investigated physical representations of this phenomenon in low mass star forming region NGC 1333 IRAS 4A and high mass star forming region G31.41+0.41 by reviewing published research done on these respective objects.

“Stellar Evolution in Open Star Cluster NGC 6791” | NASA Space Grant Consortium | Dr. Bernhard Beck-Winchatz

July 2023 - August 2023

Presented at the 2023 DePaul University Undergraduate Research Symposium

- Utilized the Sloan Digital Sky Survey to gather astronomical data and the Aperture Photometry Tool to perform photometry to make observations regarding the evolution of stars in open star clusters.

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Extracurriculars

SWIP - *Society of Women and Gender Minorities in Physics* – Vice President

- Helped restart group following stagnation due to Covid 19,
- Planned and conducted meetings to create a space for women and gender minorities in DePaul's Physics and Astrophysics program.
- Applied for and manages organization funds
- Coordinated groups to attend the CU*IP national conferences at Fermilab (2025) and the University of Michigan (2024)

DePaul Math Club – Officer

- Oversaw outreach arrangement and planning for each quarter, including administrative and funding negotiation
- Founded, organized and obtained funding for monthly Women (and Gender Minorities) in Math student brunches

Accomplishments

- *Awarded the DePaul University Presidential Scholarship for Academic Merit (4 academic years)*
- *Dean's List, 9 quarters of 10*
- *Placed 3rd in DePaul University's 2025 Integration Bee*

Teaching History

Writing Tutor | The Writing Center at Depaul University | Matthew Pearson

Chicago, IL: September 2025 – Present

- Consulted with writers across various modalities while using a holistic sense of problem-solving to navigate the diversity of papers and students.

Math Instructor | Mathnasium | Connor Jacobson

Lincolnwood, IL: June 2025 – Present

- Instructs students K-12 in Math and Math-related life skills utilizing customized learning plans for each student

Youth Activities Counselor | Michigan Shores Club | Brenden Delcorio

Wilmette IL: July 2023 - Present

- Advises groups of up to 30 kids aged 4-12 in various sports including tennis, bowling and swimming

STEM Learning Leader | STEAM and Dream Learning Labs

Chicago, IL: June 2025- August 2025

- Developed and taught engineering-based courses to 6th-8th student designed to showcase pathways to higher education in STEM to lessen the STEM gap for underserved kids on Chicago's South side

Freelance Tutor

Chicago, IL: September 2022- June 2025

- Instructed students grades 3 - 12 in topics of Math, English and Chemistry