

Mario Antonio Daley

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EDUCATION

University of Florida

Bachelor of Science (BS) in Astronomy and Physics

- University's Honors Program
- Dean's List Fall 2023, Spring 2024

Gainesville, Florida

Expected 2027

GPA: 3.69/4.00

Newcastle University

Study Abroad

- Pilot study abroad program taking place over a 6 week period

Newcastle Upon Tyne, England

July 2025 - August 2025

GPA: 4.00/4.00

RESEARCH EXPERIENCE

Astronomy Department, University of Florida

Undergraduate Researcher (Advisor: Dr. Ginsburg)

Gainesville, Florida

Fall 2024 - Present

- Utilize python scripts to catalog 347 potential young stellar objects (YSOs) forming in the Deep South region of the molecular cloud Sagittarius B2 to compare between lower resolution data of the cloud
- Measure the individual YSO masses, placements in the cloud, and other previously unanalyzed metrics
- Visually inspect 500 potential sources for any false positive YSOs captured, code and adapt previous methods of data analysis using astropy, matplotlib, and numpy packaging

Newcastle University

Undergraduate Researcher (Advisor: Dr. Rosario)

- Through pyspeckit, create position velocity maps of the AGN of galaxy Markarian 348, highlighting the high velocity residue from the AGN radio jets onto the Narrow Line Region [OIII] emissions

OUTREACH

Outreach Committee member, UF Astronomy Department

Fall 2024 – Present

- Manage event requests from organizations and individuals seeking demonstrations from the university's Undergraduate Astronomy Club (UAC)
- Serve as a liaison between the public and Astronomy department updating available outreach opportunities

Rosemary Hill Observatory Open House Volunteer

Spring 2024 – Present

- Organized and maintained parking for the over 200 guests attending per event night
- Guide guests viewing of the night sky through a celestron telescope, describing mythologies of visible constellations

Girl Scouts Astronomy Badge Organizer

November 2024 – Present

- Communicates with local troop leaders to plan events and expectations of UAC for troops astronomy badge activities

SKILLS

- **Programming:** Python (Astropy, Numpy, Matplotlib, Pyspeckit)
- **Software:** CARTA, DS9
- **Languages:** English (Native), Spanish (Proficient)

EXTRACURRICULARS

University of Florida

Undergraduate Astronomy Club (UAC)

Outreach Coordinator, President

Spring 2024 – Present