

Julio M. Morales

EDUCATION

NEW MEXICO STATE UNIVERSITY

PH.D IN ASTRONOMY

Starting Aug 2022 | Las Cruces, NM

UNIVERSITY OF MASSACHUSETTS AMHERST

B.S IN PHYSICS AND ASTRONOMY

May 2022 | Amherst, MA

College of Natural Sciences

GPA: 3.4/4.0

CONTACT INFO

Website: JulioM-1823.com

GitHub: [JulioM-1823](https://github.com/JulioM-1823)

Twitter: [AstroJulioM](https://twitter.com/AstroJulioM)

Email: jmmorales@umass.edu

Number: (978) 467-6662

SKILLS

PROGRAMMING

- Python • GitHub • Git • \LaTeX
- HTML

SPOKEN LANGUAGES

- English (native fluent)
- Spanish (native proficient)

RESEARCH EXPERIENCE

SENIOR THESIS | UMASS AMHERST

Sep 2021 - May 2022 | Amherst, MA

- Title: Accretion Variability in Transitional Disk Host-Stars: Second-to-Minute Timescale $H\alpha$ Variability in the Giant Accreting Protoplanet Survey
- Advisor: Professor Katherine B. Follette

FIVE COLLEGE ASTRONOMY DEPARTMENT SUMMER INTERNSHIP | AMHERST COLLEGE

July 2021 - Sep 2021 | Amherst, MA

- Developed Python code to perform optimized aperture photometry on survey data.
- Planned and ran outreach event.

TELESCOPE OBSERVING EXPERIENCE

SOUTHERN ASTROPHYSICAL RESEARCH (SOAR) TELESCOPE

Oct 2022 | Cerro Pachón, Chile

AMHERST COLLEGE OBSERVATORY

Oct 2022 | Amherst, Massachusetts

CONFERENCES/PRESENTATIONS

- SACNAS Diversity in STEM Conference | San Juan, PR (presenting in Nov 2022)
- Cool Stars Conference | Toulouse, FR (presenting in July 2022)
- American Astronomical Society Conference 240 | Pasadena, CA (presenting in June 2022)
- Amherst College Physics and Astronomy Senior Thesis Talk | Amherst, MA (presented in May 2022)
- Five College Astronomy Department Thesis Picnic Talk | Amherst, MA (presented in May 2022)
- SACNAS Diversity in STEM Conference | (Virtual) (attended in Nov 2021)
- Amherst College Summer Research Poster Session | Amherst, MA (presented in Sep 2021)
- Five College Astronomy Department Research Presentation | Amherst, MA (presented in Aug 2021)

OUTREACH

EXPLORE THE SOLAR SYSTEM: AMAZING FACTS & HISTORY OF THE SOLAR SYSTEM

Outreach Coordinator | July 2021 | Northampton, Massachusetts

MODERN ASTRONOMY SUMMER PRE-COURSE

Observing Night Assistant | July 2021 | Amherst, Massachusetts

TEACHING HISTORY

ASTRONOMY HELP DESK | UMass Amherst

Tutor | 2021-2022 | Amherst, Massachusetts

TRIO UPWARD BOUND | UMass Boston

Instructor/Tutor/TA | 2020 | Boston, Massachusetts

TRIO UPWARD BOUND | UMass Boston

Tutor/TA | 2019 | Paxton, Massachusetts

AWARDS/HONORS

- Webber Voyager Graduate Fellowship | 2022 | \$7,500/yr
- SACNAS Travel Scholarship | 2022
- UMass Amherst Deans List Honors | 2021-2022
- John and Abigail Adams Scholarship | 2017 | \$1,400/yr

PUBLICATIONS

COAUTHOR

- [1] W. O. Balmer, K. B. Follette, L. M. Close, J. R. Males, R. J. De Rosa, J. I. A. Redai, A. Watson, A. J. Weinberger, K. M. Morzinski, J. Morales, K. Ward-Duong, and L. Pueyo. Improved orbital constraints and h photometric monitoring of the directly imaged protoplanet analog hd 142527 b, 2022.