

ELENA GONZALEZ

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EDUCATION

- University of Florida** | Gainesville, FL May 2021
Bachelor of Science in Astrophysics GPA: 4.0/4.0
- Miami-Dade College - North Campus** | Miami, FL May 2018
Associate of Arts in Physics – Magna Cum Laude GPA: 4.0/4.0

PROFESSIONAL DEVELOPMENT

- CIERA Virtual Poster Presentations** Summer 2020
Northwestern University
- Designed and virtually presented a scientific poster on massive black hole growth in star clusters
- 235th American Astronomical Society Winter Meeting** January 2020
AAS Conference
- Completed a poster presentation of the research project developed at the Summer 2019 Research Experience for Undergraduates program at Cornell University
- 2019 Undergraduate Summer Research Poster Session and Final Presentation** Summer 2019
Cornell University
- Designed and presented a scientific poster on the topic of cosmic string microlensing
- University of Florida - Hispanic/Latin Affairs** August 2018-
May 2019
Podemos Initiative
- Acquired new and crucial organizational and time-management skills in a bi-weekly seminars initiative for first-year Latin/Hispanic students.

RESEARCH EXPERIENCE

- Research Experience for Undergraduates | CIERA at Northwestern** Summer 2020-
Present
- Currently working on a project with Prof. Fred Rasio's team that studies the effect of the high mass binary fraction on the black hole mass spectrum
- Research | University of Florida** Summer 2020
- Worked with Prof. Paul Torrey on the study of radial metallicity gradients in IllustrisTNG simulations
- Research Experience for Undergraduates | Cornell University** Summer 2019
- Developed a research project under the mentorship of Professor David Chernoff on the topic of cosmic string detection.

PUBLICATIONS

Intermediate mass black holes from high massive star binary fractions in young star clusters (Submitted to ApJL mid-December 2020)

SKILLS

- **Computer skills:** MS Office (Proficient), Python Code (Proficient), Astroimage (Beginner), Matlab (Beginner)
- **Language skills:** fluent in English, Spanish and Catalan
- **Other skills:** Utilized a 5", 8", 12" Meade and 14" Meade Telescopes

RELEVANT COURSEWORK

- **Math:** Calculus I, II & III, Differential Equations, Computational Linear Algebra
- **Astronomy:** Astrophysics 1 & 2, Computational Astrophysics, Techniques of Observational Astronomy 1, Galactic Astronomy, Modern Astrophysics, Compact Objects
- **Physics:** Physics with Calculus I & 2, Introduction to Modern Physics, Mechanics 1 & 2, Optics1, Electromagnetism 1 & 2, Thermal Physics 1, Introduction to Quantum Physics 1

HONORS AND AWARDS

Dean's List	Spring 2019 - Spring 2020
Candidate for the 235th AAS Chambliss Student Award	January 2020
Dr. Donald W. Schuerman Memorial Fund Award for Undergraduate Research in Astronomy	December 2019
- 2019 Scholarship recipient	
Hispanic Scholarship Fund Scholar	Fall 2019
Bright Futures Florida Academic Scholarship	Fall 2018- Present
Miami-Dade 13TH Annual Academic Convocation	Fall 2018
- In Praise of Excellence Recognizing Outstanding Academic Achievement Award	
National Hispanic Recognition Program	Spring 2018
- A program to identify outstanding Hispanic High School students at the national level.	