

DANIELLA ROBERTS

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EDUCATION

Ph.D. in Physics The Ohio State University, Columbus OH. Advisor: Annika H.G. Peter	2018–2022 Expected graduation: 2022
M.S. in Physics APS Bridge Program Fellow The Ohio State University, Columbus OH.	2015–2018
B.S. in Physics Minor in Astronomy, Worlds Ahead Graduate Florida International University, Miami FL. Advisor: James R. Webb	2010–2015

FELLOWSHIPS & AWARDS

Arts and Sciences College Graduate Studies Travel Award <i>Awarded to attend 2019 SACNAS–The National Diversity in STEM Conference, Honolulu HI</i>	2019
APS Bridge Program Fellow at The Ohio State University <i>Two year APS fellowship, Columbus OH.</i>	2016
Inducted into Sigma Pi Sigma <i>Florida International University, Miami FL.</i>	2014
Southern Cross Astronomical Society Scholarship <i>Florida International University, Miami FL.</i>	2014
Florida Bright Futures Scholarship <i>Florida International University, Miami FL.</i>	2010

RESEARCH EXPERIENCE

Graduate Research Assistant, CCAPP & OSU. Under professor Annika Peter.	Fall 2016– <i>Present</i>
Undergraduate Research Assistant, FIU Under professor James Webb	Summer 2012–Summer 2015

PUBLICATIONS

3. **Daniella M. Roberts** & Annika H. G. Peter (*in preparation*)
[Satellite luminosity functions of IMAGINE galaxies in the DES Y1 survey](#)
2. **Daniella M. Roberts**, Anna M. Nierenberg, & Annika H. G. Peter (2020) [The luminosity functions and redshift evolution of satellites of low-mass galaxies in the COSMOS survey](#). *Monthly Notices of the Royal Astronomical Society*, **stab069**, [arXiv:2008.05479v2](#)
1. A. Bianca Davis et al. (including **Daniella M. Roberts**) (2020) [The LBT satellites of Nearby Galaxies Survey \(LBT-SONG\): the satellite population of NGC 628](#). *Monthly Notices of the Royal Astronomical Society*, **staa3246**, [arXiv:2003.08352v2](#)

INVITED TALKS

- Alumni Talk Series at FIU** September 2019
Talk: "Journey into Graduate School through the APS Bridge Program"
- "Lunch Talk" Seminar Series at Carnegie Observatories** December 2021
Talk: "Searching for satellite galaxies of low-mass hosts"

CONFERENCES ATTENDED

- Small Galaxies, Cosmic Questions** July 2019
Flash Talk: "Satellite Luminosity Function of Low-Mass Host Galaxies"
Durham, UK
- 2018 APS Bridge Program & National Mentoring Community Conference** November 2018
Stanford University CA. & Google HQ
- KITP Conference: Dark Matter Detection and Detectability: Paradigm Confirmation or Shift?** May 2018
Santa Barbara, CA.
- TeVPA** August 2017
Columbus, OH.
- Graduate Education & Bridge Program Conference** February 2017
College Park, MD.
- APS National Mentoring Community & Bridge Program Conference** October 2015
Miami, FL.

TEACHING EXPERIENCE

- Graduate Teaching Assistant, Department of Physics** Fall 2017–Spring 2018
The Ohio State University
Description: Taught Recitation sessions and labs, graded exams and attended weekly teaching training sessions.
Courses:
 - Introductory Physics–Calculus based E&M, Optics, Modern Physics (Fall 2017)
 - Introductory Physics–Algebra based E&M, Optics, Modern Physics (Spring 2018)
- Graduate Teaching Assistant, Department of Astronomy** Fall 2017; Fall 2020
The Ohio State University
Description: Held office hours, graded exams, and conducted lab sessions
Courses:
 - Introductory Astronomy–Stars, Galaxies, & the Universe (Fall 2017)
- Learning Assistant, Department of Physics** Fall 2012–Spring 2015
Florida International University
Description: Worked with students in large physics labs to help facilitate learning and encouraged small group interactions.
Courses:
 - General Physics Lab 1 & 2

SERVICE & OUTREACH

- Ohio State Fair Physics Volunteer** July 2019
Columbus, OH

STEM Coding Astronomy YouTube Series

Summer 2019–*Present*

Co-host for introductory physics videos that use coding as its main focus.

The Ohio State University

Columbus, OH

ASPIRE Workshop Volunteer

June 2019

Worked with high school women on astronomy related projects that use coding.

The Ohio State University

Columbus, OH

Space in Your Face YouTube Channel

Fall 2016

Co-host for YouTube channel with astronomy news

The Ohio State University

Columbus, OH

Astronomy Club at FIU Star Parties Volunteer

2013–2015

Florida International University *Miami, FL*

Southern Cross Astronomical Society Star Parties Volunteer

2013–2015

Florida International University *Miami, FL*

OTHER SKILLS & QUALIFICATIONS

Programming

- Python
- Mathematica
- Bash
- L^AT_EX
- Git
- Machine Learning: keras and scikit-learn

Data Science Workshop

- The Erdős Institute: [Data Science Boot Camp Certificate](#)

Supercomputing

Experience with the following system

- Pitzer Cluster (10,240 cores) at the Ohio Supercomputer Center

Observing Experience

- Stocker Astroscience Center 24-inch (0.61-meter) Ritchey-Chretien telescope. 2014–2015
- Remote observing with 1-meter telescope in Kitt Peak National Observatory, AZ.
& 0.60-meter telescope in Cerro Tololo Inter-American Observatory, Chile. 2014–2015

Languages

- English Native
- Spanish Native
- French Intermediate