

# DANIELLA ROBERTS

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## EDUCATION

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

## FELLOWSHIPS & AWARDS

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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

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

## PUBLICATIONS

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3. **Daniella M. Roberts**, Annika H. G. Peter, Amy Sardone, Alex Drlica-Wagner, Burçin Mutlu-Pakdil, Dimitrios Tanoglidis (*in preparation*)  
[Low Surface Brightness Satellite Galaxies from the DES Year 3 LSBG catalog belonging to low-mass host galaxies in the Local Volume](#)
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

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

## CONFERENCES ATTENDED

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- 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

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- 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

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- 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

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### Programming

- Python
- Mathematica
- Bash
- L<sup>A</sup>T<sub>E</sub>X
- 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