

DANIELLA ROBERTS

Department of Physics & CCAPP, The Ohio State University
Physics Research Building ◊ 191 W. Woodruff Ave. ◊ Columbus, Ohio 43210
+1 (786) 514 8359 ◊ roberts.1611@osu.edu

EDUCATION

Ph.D. in Physics The Ohio State University, Columbus OH. Advisor: Annika H.G. Peter	2018– <i>Present</i> Expected graduation: Summer 2021
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 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>	2013
Member of Sigma Alpha Lambda National Learship Honor Society <i>Florida International University, Miami FL.</i>	2013
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

1. **Roberts, D.**, Nierenberg, A., and Peter, A. (*in preparation*) Satellite Luminosity Function of Low-Mass Host Galaxies

INVITED TALKS

Alumni Talk Series at FIU <i>Talk: “Journey into Graduate School through the APS Bridge Program”</i>	September 2019
--	----------------

CONFERENCES ATTENDED

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

TEACHING EXPERIENCE

Graduate Teaching Assistant, Department of Physics <i>The Ohio State University</i> Description: Taught Recitation sessions and labs, graded exams and attended weekly teaching training sessions. <u>Courses:</u> <ul style="list-style-type: none">- Introductory Physics–Calculus based E&M, Optics, Modern Physics (Fall 2017)- Introductory Physics–Algebra based E&M, Optics, Modern Physics (Spring 2018)	Fall 2017–Spring 2018
Graduate Teaching Assistant, Department of Astronomy <i>The Ohio State University</i> Description: Held office hours and graded exams <u>Courses:</u> <ul style="list-style-type: none">- Introductory Astronomy–Stars, Galaxies, & the Universe (Fall 2017)	Fall 2017
Learning Assistant, Department of Physics <i>Florida International University</i> Description: Worked with students in large physics labs to help facilitate learning and encouraged small group interactions. <u>Courses:</u> <ul style="list-style-type: none">- General Physics Lab 1 & 2	Fall 2012–Spring 2015

SERVICE & OUTREACH

Ohio State Fair Physics Volunteer <i>Columbus, OH</i>	July 2019
STEM Coding Astronomy YouTube Series Co-host for introductory physics videos that use coding as its' main focus. The Ohio State University <i>Columbus, OH</i>	Summer 2019–Present
ASPIRE Workshop Volunteer Worked with high school women on astronomy related projects that use coding.	June 2019

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
- \LaTeX
- Git
- Machine Learning: keras and scikit-learn

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