

Emmanuel Durodola

Dartmouth College, Department of physics and astronomy
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EDUCATION

Dartmouth College	Hanover, NH
Ph.D., Astrophysics	Expected June 2026
Thesis: <i>Using Cosmological simulations to better understand Galaxy - Black hole co-evolution in the age of JWST</i>	
Advisor: Ryan Hickox	

California State University	Northridge, CA
B.S., Physics and Astronomy	June 2020

RESEARCH INTERESTS

high redshift galaxy evolution, super massive black hole accretion, AGN phenomena, black hole seeding, observational cosmology

HONORS & AWARDS

Ford Foundation Fellowship (Honorable Mention)	2023
EE Just Liftoff Fellow	2020
NSF Graduate Research Fellow (Honorable Mention)	2020
Fifth Cohort Cal-bridge Scholar	Aug, 2019 - Present

RESEARCH EXPERIENCE

Dartmouth College	Hanover, NH
<i>Graduate Student Researcher</i>	Aug 2020 – Present
Event Horizon Telescope, Black Hole Initiative	Cambridge, MA
<i>NSBP Research Intern</i>	June 2022 – Aug 2022
Banneker Institute, Harvard Center For Astrophysics	Cambridge, MA
<i>Summer Research Intern</i>	June 2020 – Aug 2020
Carnegie Observatories	Pasadena, CA
<i>Summer Research Intern</i>	June 2019 – Aug 2019

TEACHING EXPERIENCE

Dartmouth College	Hanover, NH
<i>Teaching Assistant/Lab instructor, Physics and Astronomy</i>	June 2021 - Present

- Courses TAed: **Astronomy 25**: Galaxies and Cosmology, **Astronomy 15**: Stars and the Milky Way, **Physics 13**: Introductory Physics, **Physics 3**: General Physics, **Astronomy 1**: Exploration of the solar system, **Astronomy 4**: Development of Astronomy Thought

Dartmouth College

Hanover, NH

Guest Lecturer

California State University, Northridge

Northridge, CA

Tutor, Physics and Astronomy, Mathematics

Aug 2017 – June 2019

Granada Hills Charter School

Granada Hills, CA

Tutor, Physics and Mathematics

Aug 2018 – June 2019

LEADERSHIP & OUTREACH

Resident Fellow, Dartmouth College

August 2022 - Present

Public Observing, Dartmouth College

August 2020 present

PRESENTATIONS (* = *poster presentation*, ** = *discussion leader*)

** *CHOIR meeting, Maine (Little red dots break out session)*

August, 2025

JSI Conference, Baltimore

November, 2024

244th AAS Meeting, Madison, WI

June, 2024

241st AAS Meeting, Seattle

January, 2023

Summer Symposium, BHI

August, 2022

Summer Symposium, Banneker Institute

August, 2020

**235th AAS Meeting, Hawaii*

January, 2020

Summer Symposium, Cal-Bridge/CAMPARE

Summer, 2019

Summer Symposium, Carnegie Observatories

August, 2019

CODING LANGUAGES

Python (experienced)

Mathematica (proficient)

Javascript (Basic)

HTML (Basic)

PUBLICATIONS (* = *contributed*)

Refereed:

1. **Emmanuel Durodola**, Fabio Pacucci, R. C. Hickox, *Exploring the AGN Fraction of a sample of JWST's Little Red Dots at $5 < z < 8$: Overmassive Black Holes Are Strongly Favored*. Submitted to the Astrophysical Journal. 2025, ApJ, 985, 169.
2. Jonathan H. Cohn, **Emmanuel Durodola**, Quinn O. Casey, Erini Lambrides, R. C. Hickox. *Evidence for Evolutionary Pathway-dependent Black Hole Scaling Relations*. 2025, ApJL, 988, L61.
3. * Anantua Richard et al, *Emission Modelling in the EHT-ngEHT Age*, doi:10.33990/galaxies11010004

4. * Laura C. Hunter et al, *Identifying Dwarfs of MC Analog Galaxies (ID-MAGE): The Search for Satellites around Low-mass Hosts*. 2025, ApJ, 989, 58.