# Finn Giddings

♥ Institute for Astronomy, University of Hawai'i at Mānoa

Research Interests: galaxy evolution, galaxy clusters, galaxy protoclusters, galaxy mergers and interactions, active galacti nuclei (AGN), dwarf galaxies, star formation

## Education

Ph.D. Astronomy

Aug 2024 - Present

Institute for Astronomy, University of Hawai'i at Mānoa

o Advisors: Dave Sanders and Roy Gal

M.S. Astronomy

Aug 2022 – Aug 2024

Institute for Astronomy, University of Hawai'i at Mānoa

- $\circ$  Project 1: Galaxy Pairs and Environment in the Hyperion Proto-supercluster (z  $\sim 2.5$ )
- o Advisor 1: Roy Gal and Brian Lemaux
- o Project 2: Far UV Radiation and Star Formation in Dwarf Galaxies with LYRA
- Advisor 2: Thales Gutcke and Dave Sanders

B.S. Physics

Aug 2018 - May 2022

Rhodes College

- o summa cum laude
- o GPA: 3.99/4.0
- Minor in Computer Science
- o Member of Football and Track and Field Teams

# Honors and Awards

Campbell Trophy Semifinalist National Football Foundation	Fall 2021
REU Fellowship NSF/UH Mānoa	$Summer\ 2021$
Phi Beta Kappa Rhodes College	<i>Spring 2021</i>
The William Spandow Scholarship in Physics Rhodes College	$Spring \ 2021$
Sigma Pi Sigma Rhodes College	Fall 2020
Eagle Scout Boy Scouts of America	2017

### **Publications**

### First Author

- o Giddings, F., Lemaux, B.C., Gal, R., et al. "Stellar Mass Growth via Mergers in the Hyperion Protosupercluster ( $z \sim 2.5$ )" In Prep.
- Giddings, F., Gutcke, T., Pakmor, R., et al. "Far UV Radiation and Star Formation in Dwarf Galaxies with LYRA" In Prep.

# Contributing

- Hung, D., Lemaux, B.C., Cucciati, O., et al. (incl. **Giddings, F.)**, "Discovering Large-Scale Structure at 2 < z < 5 in the C3VO Survey", *The Astrophyscial Journal*, Submitted
- Shah, E., Lemaux, B.C., Forrest, B., et al. (incl. **Giddings, F.**), "Enhanced AGN Activity in Overdense Galactic Environments at 2 < z < 4", Monthly Notices of the Royal Astronomical Society, Submitted
- o Forrest, B., Lemaux, B.C., Shah, E., et al. (incl. **Giddings, F.)** 2024, "Environmental Effects on the Stellar Mass Function in a z ∼ 3.3 Overdensity of Galaxies in the COSMOS Field", *The Astrophysical Journal*,

- 971, 169
- Shah, E., Lemaux, B.C., Forrest, B., et al. (incl. Giddings, F.) 2024, "Identification and characterization of six spectroscopically confirmed massive protostructures at 2.5 < z < 4.5", Monthly Notices of the Royal Astronomical Society, 529, 873
- Staab, P., Lemaux, B.C., Forrest, B., et al. (incl. Giddings, F.) 2024, "Protoclusters as drivers of stellar mass growth in the early Universe, a case study: Taralay - a massive protocluster at z 4.57", Monthly Notices of the Royal Astronomical Society, 528, 6934

# Awarded Proposals

JWST Cycle 3 - "Unveiling the Morphological Evolution of Galaxies in Protoclusters: Insights from JWST Imaging", PI: Lu Shen, CO-I, 2024

# **Presentations and Posters**

Pres	sentations		
0	The First Gigayear(s) Gemini / NOIR Lab	2024	
0	Physics Department Research Talk Rhodes College	2021	
0	IfA REU Symposium Institute for Astronomy	2021	
Post	sers		
0	The First Gigayear(s) Gemini / NOIR Lab	2024	
0	UROP Research Symposium UH Mānoa	2021	
Teaching Experience			

Professional Development Program ISEE, UC Santa Cruz	2024
Instructor ASTR 110 Lab: Survey of Astronomy	Jan 2023 - May 2024
Teaching Assistant ASTR 426: Galaxies and Cosmology	Aug 2024 - Present
Teaching Assistant ASTR 300 Lab: Observational Astronomy	Aug 2024 - Present
Teaching Assistant ASTR 110 Lab: Survey of Astronomy	$Aug\ 2022$ - $Dec\ 2022$
Teaching Assistant ASTR 130: Intro to Archeoastronomy	Aug 2022 - Dec 2022

# Outreach

HI-	Star Mentor and Project Leader	2022 - Present
Ma	unakea Scholars Mentor	2023 - Present
Akamai Internship Program Program Instructor		2024
Journey Through the Universe Future Educator		2025
Ins	titute for Astronomy Outreach Events Volunteer	Aug 2022 - Present
0	If A Open House	2023,2024
0	Boy Scouts Astronomy Merit Badge Day	2024
0	Leeward Community College Discovery Day	2023
0	Sustainable Coastlines Hawaii Kaimuki Cleanup Festival	2023
0	AstroDay Kona	2023
0	Welina Mānoa: First Day of School Kick-Off Event	2023
0	Sustainable Coastlines Hawaii Island Wide Cleanup Event	2023
0	Lana'i Cat Sanctuary Ohana Stargazing Event	2023
0	Makahiki Games & Stargazing Event	2023
0	Hawaii Geek Meet	2022

# Department Service

Graduate Student Representative Graduate Office Representative Aug 2024 - Present Aug 2023 - Aug 2024