

Jenna Samuel

Graduate Student
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Education	<i>University of California, Davis</i> Ph.D. in Physics Advisor: Andrew Wetzel McNair Graduate Fellow 2015 - 2016	September 2015 - Present
	<i>Florida International University</i> B.S. in Physics McNair Scholar 2014 - 2015	January 2011 - May 2015

Research	<i>Graduate Research</i> University of California, Davis Advisor: Andrew Wetzel	January 2018 - Present
	<ul style="list-style-type: none">Exploring the orbital histories of satellite galaxies around isolated Milky Way-like galaxies and Local Group-like pairs in the FIRE2 Latte and ELVIS simulations. Using Python to quantify the spatial and kinematic coherence of satellites over time, and comparing to observations of satellites in the Local Group.	
	<i>Graduate Research</i> University of California, Davis Advisor: Stefano Valenti	June 2016 - November 2017
	<ul style="list-style-type: none">Reduced spectroscopic and photometric data for reverberation mapping of active galactic nuclei (AGN). Developed a Monte Carlo interpolated cross-correlation routine in Python to measure time lags in AGN.	
	<i>Undergraduate Research</i> Florida International University Advisor: Lei Guo	August 2014 - September 2015
	<ul style="list-style-type: none">Analyzed particle resonances photoproduction cross section of vector mesons produced by a photon beam incident on a liquid Helium target.	
	<i>Science Undergraduate Laboratory Internship</i> Thomas Jefferson National Accelerator Facility Advisors: Valery Kubarovsky, Joerg Reinhold	May - August 2014
	<ul style="list-style-type: none">Summer residential internship program funded by the U.S. Department of Energy. Characterized detector properties of multi-anode photomultipliers for a Cherenkov radiation detector used in particle spectroscopy.	

Publications	<i>A profile in FIRE: resolving the radial distributions of satellite galaxies in the Local Group with simulations</i> J. Samuel et al.	submitted to MNRAS, April 2019
Service and Outreach	<i>CUWiP at UC Davis 2019</i>	June 2018 - January 2019
	<ul style="list-style-type: none">Member of the local organizing committee for the Conference for Undergraduate Women in Physics. Led plans for lodging, laboratory tours, transportation, and recruitment of 150 attendees.	
	<i>Diversity and Inclusion in Physics</i>	October 2017 - Present
	<ul style="list-style-type: none">Attend and facilitate weekly meetings on equity issues in the department. Rebuilt website.	
	<i>Astronomy on Tap, Davis</i>	May 2018 - Present
	<ul style="list-style-type: none">Organizer for free, monthly, public astronomy talks by writing trivia and interacting with guests.	
	<i>Graduate study group in astronomy</i>	April - December 2018
	<ul style="list-style-type: none">Led a bi-weekly, peer-led group on paper discussions and professional development.	
Teaching	<i>Teaching Assistant</i> University of California, Davis	September 2016 - March 2018
	<ul style="list-style-type: none">Lab TA for introductory physics lab sections. Course TA for introductory astronomy classes and upper division math methods for physics majors. Held weekly office hours, graded weekly assignments and exams, and organized quarterly review sessions.	
	<i>Learning Assistant</i> Florida International University	August 2012 - April 2015
	<ul style="list-style-type: none">Facilitated experiments in introductory and modern physics labs using high voltage, radiation sources, and optical equipment. Helped students learn basic programming skills for physics research, and held weekly office hours.	
Observing	<i>Lick AGN Monitoring Project</i> 1 night, optical spectroscopy on Shane 3m telescope, <i>Lick Observatory</i>	March 2017
	<i>UCO Graduate Observational Astronomy Workshop</i> <i>Lick Observatory</i>	October 2017