

Jenna Samuel

1 Shields Ave
Davis, CA 95616
(305) 297-8557
jsamuel@ucdavis.edu

Education	<i>University of California, Davis</i> Davis, CA Ph.D. in Physics Advisor: Andrew Wetzel McNair Graduate Fellow 2015 - 2016	September 2015 - Present
	<i>Florida International University</i> Miami, FL B.S. in Physics McNair Scholar 2014 - 2015	January 2011 - May 2015
Research	<i>Graduate Research</i> University of California, Davis Advisor: Andrew Wetzel <ul style="list-style-type: none">• Exploring orbital histories of satellite galaxies around isolated Milky Way and Local Group-like pairs with the Latte and ELVIS simulations as part of the FIRE suite.• Using Python to quantify spatial and kinematic coherence of satellites over time, and compare to the Milky Way's observed satellite plane.	January 2018 - Present
	<i>Graduate Research</i> University of California, Davis Advisor: Stefano Valenti <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.	June 2016 - November 2017
	<i>Undergraduate Research</i> Florida International University Advisor: Lei Guo <ul style="list-style-type: none">• Analyzed particle resonances produced by a photon beam incident on a liquid Helium target at Jefferson Lab.• Calculated the photoproduction cross section of vector mesons using C++ and ROOT.	August 2014 - September 2015

	<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"> • Completed a ten week, 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 hadron spectroscopy. 	
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. • Received average teaching evaluation of 4 out of 5. 	
	<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. • Taught students necessary Python programming skills for physics research, and led 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
Service and Outreach	<i>Graduate study group in astronomy</i> Leading a bi-weekly, peer-led group on paper discussions and professional development.	April 2018 - Present
	<i>Diversity and Inclusion in Physics</i> Attend and facilitate weekly meetings on equity issues in the department. Rebuilt website.	October 2017 - Present
	<i>Astronomy on Tap</i> Helped put on free monthly public astronomy talks.	May 2018 - Present