

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

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**Education**

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

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**Research**

<i>Graduate Research</i>	January 2018 - Present
University of California, Davis Advisor: Andrew Wetzel	
<ul style="list-style-type: none"><li>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.</li></ul>	
<i>Graduate Research</i>	June 2016 - November 2017
University of California, Davis Advisor: Stefano Valenti	
<ul style="list-style-type: none"><li>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.</li></ul>	
<i>Undergraduate Research</i>	August 2014 - September 2015
Florida International University Advisor: Lei Guo	
<ul style="list-style-type: none"><li>Analyzed particle resonances photoproduction cross section of vector mesons produced by a photon beam incident on a liquid Helium target at Jefferson Lab using C++ and ROOT.</li></ul>	
<i>Science Undergraduate Laboratory Internship</i>	May - August 2014
Thomas Jefferson National Accelerator Facility Advisors: Valery Kubarovsky, Joerg Reinhold	
<ul style="list-style-type: none"><li>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.</li></ul>	

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**Publications**     *A profile in FIRE: resolving the radial distributions of satellite galaxies in the Local Group with simulations*  
Samuel et al.     to be submitted

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**Teaching**     *Teaching Assistant*     September 2016 - March 2018  
University of California, Davis

- 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.

*Learning Assistant*     August 2012 - April 2015  
Florida International University

- 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.

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**Observing**     *Lick AGN Monitoring Project*     March 2017  
1 night, optical spectroscopy on Shane 3m telescope, *Lick Observatory*

*UCO Graduate Observational Astronomy Workshop*     October 2017  
*Lick Observatory*

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**Service and Outreach**     *CUWiP at UC Davis 2019*     July 2018 - Present

- Member of the local organizing committee for the Conference for Undergraduate Women in Physics. Leading plans for lodging, laboratory tours, transportation, and recruitment of attendees from local colleges.

*Diversity and Inclusion in Physics*     October 2017 - Present

- Attend and facilitate weekly meetings on equity issues in the department. Rebuilt website.

*Graduate study group in astronomy*     April - December 2018

- Led a bi-weekly, peer-led group on paper discussions and professional development.

*Astronomy on Tap, Davis*     May 2018 - Present

- Help put on free, monthly, public astronomy talks by writing trivia and interacting with guests.