

Sean P. Fillingham

CONTACT
INFORMATION Department of Physics and Astronomy
University of California Irvine
4129 Frederick Reines Hall
Irvine, CA 92617
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CITIZENSHIP USA

MILITARY
SERVICE United States Army (Active Duty, October 2003 - July 2008)
Virginia National Guard (July 2008 - December 2009)

RESEARCH
INTERESTS **galaxy evolution, environmental quenching, near-field cosmology, star formation, spectroscopy, large surveys, reionization, galaxy formation, dark matter**

EDUCATION **University of California, Irvine**

Ph.D., Physics, 2019 (*In progress*)

- *The Evolution of Low-Mass Satellite Galaxy Quenching Across Cosmic Time*
- Advisor: Michael C. Cooper, Ph.D.

M.S., Physics, 2015

University of California, Los Angeles

B.S., Physics, 2013

Northern Virginia Community College

A.S., Engineering, 2010

AWARDS Graduate Deans Dissertation Fellowship, UC Irvine, 2018 - 2019
Regents Fellowship, UC Irvine, 2013 - 2014

PUBLICATIONS	<i>The Suppression of Star Formation on the Smallest Scales: What Role Does Environment Play?</i> Rodriguez Wimberly, M. K., Cooper, M. C., Fillingham, S. P. , et al. 2018, MNRAS, in prep
	<i>The Evolution of Environmental Quenching Timescales to $z \sim 1.6$: Evidence for Dynamically-Driven Quenching of the Cluster Galaxy Population</i> Foltz, R., Wilson, G., Muzzin, A., et al. 2018, ApJ, submitted
	<i>Environmental Quenching of Low-Mass Galaxies in the Field</i> Fillingham, S. P. , Cooper, M. C., Boylan-Kolchin, M., et al. 2018, MNRAS, 477, 4491
	<i>Discovery and Follow-Up Observations of the Young Type Ia Supernova SN 2016COJ</i> Zheng, W., Filippenko, A. V., Mauerhan, J., et al. 2017, ApJ, 841, 64
	<i>Under Pressure: Quenching Star Formation in Low-Mass Satellite Galaxies via Stripping</i> Fillingham, S. P. , Cooper, M. C., Pace, A. B., et al. 2016, MNRAS, 463, 1916
TALKS	<i>Taking Care of Business in a Flash ‡: Constraining the Timescale for Low-Mass Satellite Quenching with ELVIS</i> Fillingham, S. P. , Cooper, M. C., Wheeler, C., et al. 2015, MNRAS, 454, 2039
	Seminars: TAPIR Seminar, Caltech, Pasadena, CA (September 1, 2017) The Carnegie Observatories Lunch Talk, Pasadena, CA (April 28, 2017)
	Conferences: GalFRESCA, Caltech (August, 2017) Santa Cruz Galaxy Workshop, UCSC (August, 2017) Keck Science Meeting, Caltech (September, 2016) Santa Cruz Galaxy Workshop, UCSC (August, 2016) Santa Cruz Galaxy Workshop, UCSC (August, 2015) TASC Meeting, The Carnegie Observatories (November, 2012)
CONFERENCE POSTERS	<i>Under Pressure: Quenching Star Formation in Low-Mass Satellite Galaxies via Stripping</i> Fillingham, S. , Cooper, M. C., Pace, A. B., et al. Presented at <i>Mapping the Pathways of Galaxy Transformation Across Time and Space</i> , August 2016, Avalon, Catalina Island, CA
	<i>Testing Observational Probes of the $z=2.2$ Circumgalactic Medium using Cosmological Scale Hydrodynamic Simulations</i> Fillingham, S. , Peebles, M. S., Oppenheimer, B. D., et al. 2013, American Astronomical Society Meeting Abstracts #221, 221, #245.08 Presented at AAS 221st Meeting, Long Beach, CA

OBSERVING EXPERIENCE	Keck Observatory DEIMOS: 17.5 nights MOSFIRE: 4 nights OSIRIS: 1 night Lick Observatory KAST: 8 nights Subaru Observatory HSC: 0.5 nights	
TEACHING EXPERIENCE	Teaching Assistant: 11 Undergraduate Physics Courses (both major and non-majors)	
ADDITIONAL TRAINING	Data Science Certificate, Data Science Initiative, UC Irvine (In Progress) San Diego Supercomputing Center Summer Institute, UCSD, August 2017 Rudolf Minkowski Observational Workshop, Lick Observatory, October 2015	
REFERENCES	Michael C. Cooper, Ph.D. (Doctoral Advisor) Associate Professor Department of Physics and Astronomy University of California, Irvine James S. Bullock, Ph.D. Professor and Chair Department of Physics and Astronomy University of California, Irvine	E-mail: cooper[at]uci.edu E-mail: bullock[at]uci.edu