

Sean P. Fillingham

CONTACT INFORMATION	Department of Physics and Astronomy University of California Irvine 2137 Frederick Reines Hall Irvine, CA 92617 sfilling [at] uci [dot] edu
CITIZENSHIP	USA (Born: Santa Monica, CA)
MILITARY SERVICE	United States Army (Active Duty, October 2003 - July 2008) 3rd Platoon, Delta Company, 1st Battalion, 3D US Infantry (The Old Guard) <ul style="list-style-type: none">• SGT/Infantry Fire Team Leader Virginia National Guard (July 2008 - December 2009) Delta Company, Fredericksburg, 25 Inf Division <ul style="list-style-type: none">• SGT/Infantry Section Leader
RESEARCH INTERESTS	galaxy evolution, environmental quenching, near-field cosmology, star formation, spectroscopy, large surveys, reionization, galaxy formation, dark matter
EDUCATION	University of California, Irvine Doctor of Philosophy, Physics, 2019 (<i>Expected</i>) <ul style="list-style-type: none">• <i>The Evolution of Low-Mass Satellite Galaxy Quenching Across Cosmic Time</i> Master of Science, Physics, 2015 University of California, Los Angeles Bachelor of Science, Physics, 2013 Northern Virginia Community College Associate of Science, Engineering, 2010
PUBLICATIONS	<i>Exploring the Quenching of Extremely Low-Mass Galaxies with Fat ELVIS</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 $z = 1.6$</i> Foltz, R., Wilson, G., Muzzin, A., et al. 2018, ApJ (in prep) <i>Environmental Quenching of Low-Mass Galaxies in the Field</i> Fillingham, S. P. , Cooper, M. C., Boylan-Kolchin, M., et al. 2018, MNRAS (under review) <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

Taking Care of Business in a Flash 4: Constraining the Timescale for Low-Mass Satellite Quenching with ELVIS

Fillingham, S. P., Cooper, M. C., Wheeler, C., et al. 2015, MNRAS, 454, 2039

TALKS

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

Under Pressure: Quenching Star Formation in Low-Mass Satellite Galaxies via Stripping

Fillingham, S., Cooper, M. C., Pace, A. B., et al.

Presented at *Mapping the Pathways of Galaxy Transformation Across Time and Space*, August 2016, Avalon, Catalina Island, CA

Testing Observational Probes of the $z=2.2$ Circumgalactic Medium using Cosmological Scale Hydrodynamic Simulations

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: 15 nights

MOSFIRE: 4 nights

OSIRIS: 1 night

Lick Observatory

KAST: 8 nights

Subaru Observatory

HSC: 0.5 nights

ADDITIONAL TRAINING

Data Science Certificate, Data Science Initiative, UC Irvine (In Progress)

San Diego Supercomputing Center Summer Workshop, UCSD, August 2017

Rudolf Minkowski Observational Workshop, Lick Observatory, October 2015

TEACHING EXPERIENCE

Teaching Assistant:

Physics 2 - Introduction to Math Methods for Physics Fall 2014

Physics 3LB - Basic Physics Lab Summer 2015

Physics 3LC - Basic Physics Lab Fall 2014

Physics 7C - Classical Physics Fall 2013, Winter 2014

Physics 7D - Classical Physics Summer 2014

Physics 7LC - Classical Physics Lab Fall 2013, Winter 2014

Physics 7LD - Classical Physics Lab Summer 2014

Physics 20B - Cosmology Spring 2014, Winter 2015

Physics 20D - Space Science Fall 2015

Physics 20E - Life in the Universe Spring 2015

Physics 116 - Relativity Fall 2015

REFERENCES

Michael C. Cooper, Ph.D. (Doctoral Advisor)
Associate Professor
Department of Physics and Astronomy
University of California, Irvine

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James S. Bullock, Ph.D.
Professor and Chair
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