Sean P. Fillingham — Curriculum Vitae

Contact Information

Department of Astronomy
Physics-Astronomy Bldg
University of Washington
Seattle, WA 98195

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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, reionization, galaxy formation, dark matter

spectroscopy, large surveys, machine learning, statistics

Professional Appointments

Postdoctoral Research Associate **September 2019 - Present**
Department of Astronomy
University of Washington

Education

University of California, Irvine
PhD Physics, 2019
Low-Mass Satellite Quenching in The Local Group
advisor: Michael C. Cooper, PhD

MS Physics, 2015

University of California, Los Angeles
BS Physics, 2013

Northern Virginia Community College
AS Engineering, 2010

Awards

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

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

Presentations

WFIRST Local Group Meeting, Caltech, Pasadena, CA (June, 2019)
AAS 233rd Meeting (Dissertation Talk), Seattle, WA (January, 2019)
Galaxy Journal Club, STScI, Baltimore, MD (November 9, 2018)
Galread, UCLA, Los Angeles, CA (October 29, 2018)
Astronomy Seminar, UC Riverside, Riverside, CA (October 17, 2018)
Keck Science Meeting, Caltech (September, 2018)
GalFRESCA, Caltech (August, 2018)
TAPIR Seminar, Caltech, Pasadena, CA (September 1, 2017)
GalFRESCA, Caltech (August, 2017)
Santa Cruz Galaxy Workshop, UCSC (August, 2017)
The Carnegie Observatories Lunch Talk, Pasadena, CA (April 28, 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)

References

Sarah Tuttle, Ph.D.
Assistant Professor — E-mail: tuttlese[at]uw.edu
Department of Astronomy
University of Washington

Michael C. Cooper, Ph.D. (Doctoral Advisor)
Professor — E-mail: cooper[at]uci.edu
Department of Physics and Astronomy
University of California, Irvine

James S. Bullock, Ph.D.
Dean, School of Physical Sciences — E-mail: bullock[at]uci.edu
Professor, Department of Physics and Astronomy
University of California, Irvine

Michael Boylan-Kolchin, Ph.D.
Associate Professor — E-mail: mbk[at]astro.as.utexas.edu
Department of Astronomy
The University of Texas at Austin

Publications

7. Characterizing the Infall Times and Quenching Timescales of Milky Way Satellites with *Gaia* Proper Motions

   Fillingham, S. P., Cooper, M. C., Kelly, T., et al. 2019, MNRAS under review (arXiv:1906.04180)

6. The Suppression of Star Formation on the Smallest Scales: What Role Does Environment Play?

   Rodriguez Wimberly, M. K., Cooper, M. C., **Fillingham, S. P.**, et al. 2019, MNRAS, 483, 4031

5. The Evolution of Environmental Quenching Timescales to $z \sim 1.6$: Evidence for Dynamically-Driven Quenching of the Cluster Galaxy Population

   Foltz, R., Wilson, G., Muzzin, A., **et al.** 2018, ApJ, 866, 136

4. Environmental Quenching of Low-Mass Galaxies in the Field

   Fillingham, S. P., Cooper, M. C., Boylan-Kolchin, M., et al. 2018, MNRAS, 477, 4491

3. Discovery and Follow-Up Observations of the Young Type Ia Supernova SN 2016COJ

   Zheng, W., Filippenko, A. V., Mauerhan, J., **et al.** 2017, ApJ, 841, 64

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

   Fillingham, S. P., Cooper, M. C., Pace, A. B., et al. 2016, MNRAS, 463, 1916

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

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