John Isaac Phillips

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EDUCATION

University of California, Irvine (Irvine, California, USA) 2010-2016 (expected)
Ph.D. in Physics and Astronomy
Advisor: Michael Cooper

University of California, Irvine (Irvine, California, USA) 2012
M.Sc. in Physics and Astronomy
Advisor: James Bullock

Duke University (Durham, North Carolina, USA) 2006-2010
B.Sc. with Honors in Physics
Advisor: Mark Kruse

RESEARCH EXPERIENCE

University of California, Irvine - Graduate Student Researcher 2010-2016
with Prof. Michael Cooper and Prof. James Bullock working on
using large scale surveys to constrain galaxy group co-evolution

Assisted on various observations using the Keck 10m telescopes and 2010-2016
the DIEMOS and MOSFIRE multi-object spectrographs. Astronomers
assisted include Prof. Michael Cooper (UCI), Prof. Evan Kirby (Cal Tech),
Dr. Erik Tollerud (STScI), and Dr. Sarah Miller

Duke University - Honors thesis researcher with Prof. Mark Kruse 2009-2010
using Monte Carlo simulations of ATLAS data to develop methods of
background reduction in top/anti-top annihilation events

PUBLICATIONS

A dichotomy in satellite quenching around L galaxies* **J.I. Phillips**, C.R. Wheeler, M.C. Cooper, M. Boylan-Kolchin, J.S. Bullock, E.J. Tollerud. MNRAS, Volume 437, Issue 2, p. 1930-1941.

The mass dependence of satellite quenching in Milky Way-like haloes **J.I. Phillips**, C.R. Wheeler, M.C. Cooper, M. Boylan-Kolchin, J.S. Bullock, E.J. Tollerud. MNRAS, Volume 447, Issue 1, p. 698-710.

Are rotating planes of satellite galaxies ubiquitous? **J.I. Phillips**, M.C. Cooper, J.S. Bullock, M. Boylan-Kolchin. MNRAS, Volume 453, Issue 4, p. 3839-3847.

The surprising inefficiency of dwarf satellite quenching C.R. Wheeler, **Phillips, J.I.**, M.C. Cooper, M. Boylan-Kolchin, J.S. Bullock. MNRAS, Volume 442, Issue 2, p.1396-1404.

CONTRIBUTED TALKS

"Rotating planar anisotropies in SDSS satellites,"
Local Group Astrostatistics, University of Michigan - 2015
Galaxy Workshop, University of Santa Cruz - 2015

"A dichotomy in the quenching of satellite galaxies"
Galaxy Workshop, University of Santa Cruz - 2013
Dwarf Galaxy Workshop, UCLA - 2012

"Satellite quenching near MW-sized galaxies"
Galaxy Workshop, University of Santa Cruz - 2012

TEACHING EXPERIENCE

Teaching assistant, UC Irvine COSMOS program, statistics cluster. Instructed grade 9-12 students in astronomy and statistics labs and activities — 2015

Teaching assistant, UC Irvine COSMOS program, astronomy cluster. Instructed grade 9-12 students in astronomy labs and activities — 2011-2014

Teaching assistant, undergraduate mechanics for pre-medical students	2012
Teaching assistant, astronomy for non-physics majors	2012
Ran observatory sessions for undergraduate astronomy classes	2010-2012

OUTREACH EXPERIENCE

Participant, UC Irvine astronomy outreach program - Participated in bringing hands-on demonstrations and activities to various schools and school-aged groups	2010-2016
Telescope operator, UC Irvine visitor nights - Operated both small (8-12 inch) telescopes and UC Irvine's 24 inch telescope for public nights at the UCI observatory, as well as special events (e.g. the 2012 Venus transit)	2010-2014
Graduate Student Coordinator of the UC Irvine astronomy outreach program - coordinated the planning of outreach events and served as the student leader of the program	2010-2012