

SUSAN E. CLARK
Curriculum Vitae

1411 Pupin Hall
 550 West 120th Street
 New York, New York 10027
 seclark@astro.columbia.edu

Education	COLUMBIA UNIVERSITY New York, NY Ph.D. Candidate, Astronomy & Astrophysics Thesis Project: <i>Magnetic Fields in the Interstellar Medium</i> Thesis Advisors: Mary E. Putman, Joshua E.G. Peek	Oct. 2014 – present
	COLUMBIA UNIVERSITY New York, NY M.A., Astronomy & Astrophysics	Aug. 2012 – Oct. 2014
	UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL Chapel Hill, NC B.S., Physics	Aug. 2008 – May 2012
	THOMAS JEFFERSON HS FOR SCIENCE & TECHNOLOGY Alexandria, VA	Sep. 2004 – June 2008
Honors and Awards	NSF GRADUATE FELLOWSHIP Columbia University	2012 – present
	COLUMBIA DEAN'S FELLOWSHIP Columbia University	2012 – present
	MOREHEAD-CAIN SCHOLARSHIP UNC-Chapel Hill	2008 – 2012
Teaching	GRADER Columbia University, Life in the Universe	Fall 2014
	INSTRUCTOR Columbia University, Observational Astronomy Lab	Spring 2014
	INSTRUCTOR Columbia University, Earth, Moon, & Planets Lab	Fall 2013
	GRADER Columbia University, Life in the Universe	Fall 2013
	GRADUATE TEACHING ASSISTANT Columbia University, Galaxies & Cosmology	Spring 2013

	GRADUATE TEACHING ASSISTANT Columbia University, Stars & Atoms	Fall 2012
	UNDERGRADUATE STUDENT INSTRUCTOR UNC-Chapel Hill, Physics Help Center	Spring 2011 – Spring 2012
	UNDERGRADUATE TEACHING ASSISTANT UNC-Chapel Hill, Calculus-Based Newtonian Mechanics	Fall 2011
Outreach and Service	GRADUATE STUDENT INSTRUCTOR Columbia University Rooftop Variables: A partnership with NYC high school teachers to provide classroom instruction and conduct research-quality observations with students.	Fall 2012 –
	OUTREACH VOLUNTEER Columbia University Astronomy Outreach	Fall 2012 –
	FOUNDER, PRESIDENT UNC-Chapel Hill Women in Physics	Fall 2010 – Spring 2012
	MEMBER, SOCIAL CHAIR UNC-Chapel Hill Society of Physics Students	Fall 2010 – Spring 2012
Students Advised	Lowell E. Schudel: Undergraduate research, Summer 2014 & Summer 2015	
Invited Talks	PRINCETON PLASMA PHYSICS LABORATORY THEORY SEMINAR The Saturation of the Magnetorotational Instability via Weakly Nonlinear Analysis Princeton, NJ	Dec. 2014
	NON-IDEAL MHD, STABILITY, AND DISSIPATION IN PPDs Exploring MRI Saturation via Weakly Nonlinear Analysis Copenhagen, Denmark	Aug. 2014
Contributed Talks and Posters	TALK, IAU FOCUS MEETING 5, THE LEGACY OF PLANCK Measuring B-mode Polarization Foregrounds with Neutral Hydrogen Honolulu, Hawai'i	August 2015
	POSTER, IAU SYMPOSIUM 315 Magnetically Aligned HI and Dust: Measuring the Physical Properties of HI Fibers Honolulu, Hawai'i	August 2015
	TALK, PONTIFICA UNIVERSIDAD CATOLICA Measuring B-mode Polarization Foregrounds with Neutral Hydrogen Santiago, Chile	May 2015
	TALK, MIDWEST MAGNETIC FIELDS WORKSHOP Magnetically Aligned HI and Dust in the ISM Madison, WI	May 2015

POSTER, NSF DIRECTORATE FOR MATHEMATICAL & PHYSICAL SCIENCES Magnetically Aligned HI Fibers New York, NY	Oct. 2014
POSTER, FILAMENTARY STRUCTURE IN MOLECULAR CLOUDS Quantifying Linear Structure with the Rolling Hough Transform, and Introducing the dRHT NRAO, Charlottesville, VA	Oct. 2014
POSTER, GALACTIC SCIENCE WITH THE SKA AND ITS PATHFINDERS Magnetically Aligned HI Fibers Leiden, Netherlands	May 2014
TALK, MIDWEST MAGNETIC FIELDS WORKSHOP Magnetically Aligned HI Fibers Madison, WI	April 2014
TALK, COLUMBIA UNIVERSITY PIZZA LUNCH Quantifying Linear Structure in the ISM New York, NY	Feb. 2014
TALK, PHASES OF THE ISM CONFERENCE Magnetized HI Fibers and the Rolling Hough Transform Heidelberg, Germany	July 2013
TALK, SENIOR RESEARCH PRESENTATION The Disruption of High-Velocity Clouds in the Milky Way Chapel Hill, NC	April 2012
POSTER, AAS WINTER MEETING Dust-to-Gas Comparisons with GALFA-HI Austin, TX	Jan. 2012
TALK, GALFA-HI MEETING Gas/Dust Comparisons Using GALFA-HI Data Madison, WI	Aug. 2012
TALK, ARECIBO REU Dust and Gas in the Interstellar Medium Arecibo Observatory, PR	Aug. 2011

Publications

$h=3$ GALACTIC AND MAGELLANIC EVOLUTION WITH THE SKA
McClure-Griffiths, N. M., Stanimirović, S., [5 authors], **Clark, S. E.**, [3 authors], 2015,
from “Advancing Astrophysics with the Square Kilometre Array”, PoS

MAGNETIZED HI FIBERS AND THE ROLLING HOUGH TRANSFORM
Clark, S. E., Peek, J. E. G., Putman, M. 2014, *ApJ*, 789, 82

PHYSICAL PROPERTIES OF COMPLEX C HALO CLOUDS
Hsu, W-H, Putman, M. E., Heitsch, F., Stanimirović, S., Peek, J. E. G., **Clark, S. E.**,

2010, *AJ*, 141, 57