

SUSAN E. CLARK  
*Curriculum Vitae*

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 New York, New York 10027  
 seclark@astro.columbia.edu

<b>Education</b>	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
<b>Honors and Awards</b>	NSF GRADUATE FELLOWSHIP Columbia University	2012 – present
	COLUMBIA DEAN'S FELLOWSHIP Columbia University	2012 – present
	MOREHEAD-CAIN SCHOLARSHIP UNC-Chapel Hill	2008 – 2012
<b>Teaching</b>	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
<b>Outreach and Service</b>	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
<b>Students Advised</b>	Lowell E. Schudel: Undergraduate research, Summer 2014 & Summer 2015	
<b>Invited Talks</b>	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
<b>Contributed Talks and Posters</b>	TALK, PONTIFICA UNIVERSIDAD CATOLICA Measuring B-mode Polarization Foregrounds with Neutral Hydrogen Santiago, Chile	May 2015
	TALK, MIDWEST MAGNETIC FIELDS WORKSHOP Magnetically Aligned H <sub>I</sub> and Dust in the ISM Madison, WI	May 2015
	POSTER, NSF DIRECTORATE FOR MATHEMATICAL & PHYSICAL SCIENCES Magnetically Aligned H <sub>I</sub> 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** GALACTIC AND MAGELLANIC EVOLUTION WITH THE SKA  
*h=3* 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