Susan E. Clark

Curriculum Vitae

School of Natural Sciences 1 Einstein Drive Princeton, New Jersey 08540 seclark@ias.edu
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APPOINTMENTS

Hubble Fellow	2017 - present
Member, Institute for Advanced Study	2017 - present

EDUCATION

DUCATION	
Columbia University	
Ph.D., Astrophysics	2017
Thesis Project: Magnetic Fields in the Interstellar Medium	
Thesis Advisors: Mary E. Putman, Joshua E.G. Peek	
M.A., M.Phil, Astrophysics	2014
The University of North Carolina at Chapel Hill	
B.S., Physics	2012
Thomas Jefferson High School for Science & Technology	2008

HONORS, AWARDS AND GRANTS

Hubble Fellowship	2017 - 2020
Institute for Advanced Study School of Natural Sciences Fellowship	2020 - 2022
Einstein Fellowship	declined
NSF Graduate Research Fellowship	2012 - 2017
Columbia Dean's Fellowship	2012 - 2017
ASNY Graduate Student Paper Prize	2016
CCAPP Price Prize in Cosmology and AstroParticle Physics	2016
PI, VLA Observing Proposal 16A-133, 8 hours	2016
PRL Editors' Recommendation Paper	2015
Morehead-Cain Scholarship	2008 - 2012
Full scholarship to UNC-Chapel Hill	

First-author journal articles

PUBLICATIONS

- 5. S.E. Clark. A new probe of line-of-sight magnetic field tangling. 2018, ApJL 857, L10.
- 4. S.E. Clark & J.S. Oishi. The weakly nonlinear magnetorotational instability in a global, cylindrical Taylor-Couette flow. 2017, ApJ 841, 2. arXiv:1610.01603
- 3. S.E. Clark & J.S. Oishi. The weakly nonlinear magnetorotational instability in a local geometry. 2017, ApJ 841, 1. arXiv:1610.01616

- 2. S.E. Clark, J. Colin Hill, J.E.G. Peek, M.E. Putman, B.L. Babler. Neutral hydrogen structures trace dust polarization angle: Implications for cosmic microwave background foregrounds. 2015, PRL 115, 241302. Selected as PRL Editors' Recommendation. arXiv:1508.07705.
- 1. S.E. Clark, J.E.G. Peek, M.E. Putman. Magnetically aligned HI fibers and the Rolling Hough Transform. 2014, ApJ 789, 82. arXiv:1312.1338

Other journal articles

- 5. J.E.G. Peek, B.L. Babler, Y. Zheng, **S.E. Clark**, K.A. Douglas, E.J. Korpela, M.E. Putman, S. Stanimirović, S.J. Gibson, C. Heiles. *The GALFA-HI Survey Data Release* 2, 2018, ApJS 234, 1.
- 4. F. Heitsch, B. Bartell, S.E. Clark, J.E.G. Peek, D. Cheng, M.E. Putman. *Three-dimensional orientation of compact high velocity clouds*. 2016, MNRAS Letters 462, L46. arXiv:1606.06689.
- J. Malinen, L. Montier, J. Montillaud, M. Juvela, I. Ristorcelli, S.E. Clark, O. Berné, J.-Ph. Bernard, V.-M. Pelkonen, D.C. Collins. Matching dust emission structures and magnetic field in high-latitude cloud L1642: comparing Herschel and Planck maps. 2016, MNRAS 460, 1934. arXiv:1512.03775.
- 2. N.M. McClure-Griffiths, S. Stanimirović, [5 authors], **S.E. Clark**, [3 authors]. *Galactic and Magellanic evolution with the SKA*. 2015, from "Advancing Astrophysics with the Square Kilometre Array", PoS. arXiv:1501.01130
- 1. W.-H. Hsu, M.E. Putman, F. Heitsch, S. Stanimirović, J.E.G. Peek, S.E. Clark. *Physical properties of Complex C halo clouds*. 2011, AJ 141, 57 arXiv:1011.0011

Conference proceedings

- 2. S.E. Clark. Galactic neutral hydrogen and the magnetic ISM foreground. 2017, in Jelić & van der Hulst (Eds.) Peering towards Cosmic Dawn, Proceedings of the International Astronomical Union, Symposium No. 333, Dubrovnic, Croatia
- 1. **S.E.** Clark, J.E.G. Peek, J. Colin Hill, M.E. Putman. Quantifying the magnetic alignment of HI and dust in the diffuse ISM. 2016, In P. Jablonka, Ph. André, F. van der Tak (Eds.) From Interstellar Clouds to Star-forming Galaxies: Universal Processes? Proceedings of the International Astronomical Union Symposia and Colloquia, IAU 315, Honolulu, Hawaii

SCIENTIFIC TALKS

48 presentations, 30 invited talks/colloquia	
48. Invited Talk & Panel, PICO Science Meeting, University of Minnesota	May 2018
47. Colloquium, University of Rochester	April 2018
46. Invited Talk, Princeton University Wednesday Lunch Talk, Princeton, New Jersey	Feb. 2018
45. Invited Talk, UC Berkeley TAC Seminar, Berkeley, California	Dec. 2017
44. Invited Talk, CMB Foregrounds Workshop, San Diego, California	Nov. 2017
43. Colloquium, University of Wisconsin - Madison	Nov. 2017
42. Invited Talk, GMIMS Collaboration Workshop, DRAO, Canada	Oct. 2017
41. Invited Talk, CIERA/Northwestern Seminar, Evanston, Illinois	Oct. 2017
40. Invited Talk, Magnetic Fields in the Universe VI, Natal, Brazil	Oct. 2017
39. Invited Talk, IAU Symposium 333: Peering Toward Cosmic Dawn, Dubrovnik, Croa	tia Oct. 2017
38. Talk, IAS Seminar, Princeton, New Jersey	Sept. 2017
37. Invited Talk, The Interstellar Medium Beyond Three Dimensions, Orsay, France	July 2017
36. Invited Talk, Midwest Magnetic Fields Workshop, Madison, Wisconsin	May 2017
35. Invited Talk, Rutgers Astrophysics Seminar, New Brunswick, New Jersey	Mar. 2017

Head Teaching Assistant, Columbia Department of Astronomy Guest Lecturer, Hunter College, Unsolved Problems in Astrophysics Grader, Columbia University, Life in the Universe 2015 – 2016 2016 2016	2.4			
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1. Talk, REU Symposium, Arecibo Observatory, Puerto Rico Aug. 2011 TEACHING EXPERIENCE Guest Lecturer, Columbia University, upper-level undergraduate Galaxies course Head Teaching Assistant, Columbia Department of Astronomy Guest Lecturer, Hunter College, Unsolved Problems in Astrophysics Grader, Columbia University, Life in the Universe Aug. 2017 2017 2016 2016 2016	3.	Poster, AAS Winter Meeting, Austin, Texas	Jan.	2012
TEACHING EXPERIENCE Guest Lecturer, Columbia University, upper-level undergraduate Galaxies course Head Teaching Assistant, Columbia Department of Astronomy Guest Lecturer, Hunter College, Unsolved Problems in Astrophysics Grader, Columbia University, Life in the Universe 2017 2016 2016 2017	2.	Talk, GALFA-HI Collaboration Meeting, Madison, Wisconsin	Aug.	2011
Guest Lecturer, Columbia University, upper-level undergraduate Galaxies course Head Teaching Assistant, Columbia Department of Astronomy Guest Lecturer, Hunter College, Unsolved Problems in Astrophysics Grader, Columbia University, Life in the Universe 2017 2016 2017 2017 2017 2017 2017 2017 2018 2019 2019 2019 2019 2019 2019 2019 2019	1.	Talk, REU Symposium, Arecibo Observatory, Puerto Rico	Aug.	2011
Head Teaching Assistant, Columbia Department of Astronomy Guest Lecturer, Hunter College, Unsolved Problems in Astrophysics Grader, Columbia University, Life in the Universe 2015 – 2016 2016 2016	TEAC	HING EXPERIENCE		
Guest Lecturer, Hunter College, Unsolved Problems in Astrophysics 2016 Grader, Columbia University, Life in the Universe 2014		, , , , , , , , , , , , , , , , , , ,		2017
Grader, Columbia University, Life in the Universe 2014				
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		,		2014

Instructor, Columbia University, Earth, Moon, & Planets Lab	2013
Grader, Columbia University, Life in the Universe	2013
Teaching Assistant, Columbia University, Galaxies & Cosmology	2013
Teaching Assistant, Columbia University, Stars & Atoms	2012
Instructor, UNC-Chapel Hill, Physics Help Center	2011-2012
Teaching Assistant, UNC-Chapel Hill, Calculus-Based Newtonian Mechanics	2011

STUDENTS ADVISED

Jessica Campbell, University of Toronto, PhD coadviser with Bryan Gaensler	2017 - present
Larry Li, Columbia University, undergraduate research	2016-present
Garrison Grogan, Columbia University, undergraduate research	2016-2017
Lowell Schudel, Columbia University, undergraduate research	2014-2015

PROFESSIONAL SERVICE

Organizer, The Milky Way in the Age of Gaia, Paris, 2018

Organizer, The Interstellar Medium Beyond 3D, Paris, 2017

Organizer, Columbia University Weekly Astro-ph Discussion, 2016 – 2017

Referee, The Astrophysical Journal, The Astrophysical Journal Letters, Astronomy & Astrophysics

SELECTED OUTREACH AND SERVICE

Instructor, Prison Teaching Initiative	2018 - present
Volunteer, Reading Team Math Program, Harlem, New York	2016 - 2017
Instructor, Rooftop Variables, Curtis High School, Staten Island, New York	2012 - 2017
Outreach Volunteer, bi-weekly community stargazing, Columbia University	2012 - 2017
Public Lecture, Our Magnetic Universe, Columbia Astronomy Outreach Lecture Series	2015
Founder, President, UNC-Chapel Hill Women in Physics	2010 - 2012
Member, Social Chair, UNC-Chapel Hill Society of Physics Students	2010 - 2012
Chapter Director, Mentor, UNC-Chapel Hill Strive For College	2009 - 2012

OTHER PUBLICATIONS

Closing My Eyes, S. E. Clark, personal essay, The Washington Post Magazine, May 2009