Susan E. Clark

Curriculum Vitae

School of Natural Sciences 1 Einstein Drive Princeton, New Jersey 08540

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APPOINTMENTS

Hubble Fellow	2017-2020
Member, Institute for Advanced Study	$2017-{ m present}$
Assistant Professor, Stanford University Department of Physics	beginning 2021

ED

2017
2014
2012

HONORS, AWARDS AND GRANTS

Terman Faculty Fellow, Stanford University	2021
Hubble Fellowship	2017 - 2020
Institute for Advanced Study School of Natural Sciences Fellowship	2020 - 2022
Unsung Hero Award, Princeton Prison Teaching Initiative	2019
PI, Arecibo Observing Proposal A3172, 46 hours	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
NSF Graduate Research Fellowship	2012 - 2017
Columbia Dean's Fellowship	2012 - 2017
Morehead-Cain Scholarship	2008 - 2012
Full scholarship to UNC-Chapel Hill	

PUBLICATIONS

First- and single-author refereed journal articles

- 7. S.E. Clark & B.S. Hensley. Mapping the Magnetic Interstellar Medium in Three Dimensions Over the Full Sky with Neutral Hydrogen. 2019, ApJ 887, 2. arXiv:1909.11673
- 6. S.E. Clark, J.E.G. Peek, M.-A. Miville-Deschênes. The physical nature of neutral hydrogen intensity structure. 2019, ApJ 874, 171. arXiv:1902.01409
- 5. **S.E. Clark**. A new probe of line-of-sight magnetic field tangling. 2018, ApJL 857, L10. arXiv:1802.00011

- 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 refereed journal articles

- 12. A.J.M. Thomson, T.L. Landecker, N. McClure-Griffiths et al. incl. S.E. Clark. The Global Magneto-Ionic Medium Survey (GMIMS): The brightest polarized region in the Southern sky at 75 cm and its implications for Radio Loop II. 2021, submitted to MNRAS.
- 11. J.S. Oishi, K.J. Burns, **S.E. Clark**, E.H. Anders, B.P. Brown, G.M. Vasil, D Lecoanet. eigentools: A Python package for studying differential eigenvalue problems with an emphasis on robustness. 2021, submitted to JOSS.
- V. Pelgrims, S.E. Clark, B.S. Hensley, G. V. Panopoulou, V. Pavlidou, K. Tassis, H.K. Eriksen, I.K. Wehus. Evidence for Line-of-Sight Frequency Decorrelation of Polarized Dust Emission in Planck Data. 2021, accepted to A&A. arXiv:2101.09291
- 9. Choi et al. incl. S.E. Clark. The Atacama Cosmology Telescope: A Measurement of the Cosmic Microwave Background Power Spectra at 98 and 150 GHz. 2020. arXiv:2007.07289
- 8. Aiola et al. incl. S.E. Clark. The Atacama Cosmology Telescope: DR4 Maps and Cosmological Parameters. 2020, submitted to JCAP. arXiv:2007.07288
- 7. J.E.G. Peek & S.E. Clark. Small-Scale HI Channel Map Structure is Cold: Evidence from Na I Absorption at High Galactic Latitudes. 2019, ApJL 886, 1. arXiv:1909.09647
- 6. A.J.M. Thomson, T.L. Landecker, [11 authors], S.E. Clark, [2 authors]. Through thick or thin: Multiple components of the magneto-ionic medium towards the nearby HII region Sharpless 2-27 revealed by Faraday tomography. 2019, MNRAS 487, 4751. arXiv:1905.09285
- 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. ADS
- 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

- 3. I. Lowe, G. Coppi, et al. incl. S.E. Clark. The Balloon-borne Large Aperture Submillimeter Telescope Observatory. 2020, in Proc. SPIE 11445, Ground-based and Airborne Telescopes VIII, 114457A. arXiv:2012.01376
- 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, Dubrovnik, 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

White papers and mission proposals

- 8. A. Lee et al. incl. S.E. Clark. The Simons Observatory. 2019, Astro2020 Decadal APC White Paper. ADS
- 7. S. Hanany et al. incl. **S.E. Clark**. *PICO: Probe of Inflation and Cosmic Origins*. 2019, Astro2020 Decadal APC White Paper. arXiv:1908.07495
- 6. The Simons Observatory Collaboration, incl. S.E. Clark. The Simons Observatory: Astro2020 Decadal Project Whitepaper. 2019. arXiv:1907.08284
- 5. L. Fissel, C.L.H. Hull, S.E. Clark, D.T. Chuss et al. Studying Magnetic Fields in Star Formation and the Turbulent Interstellar Medium. 2019, Astro2020 Science White Paper. arXiv:1903.08757
- 4. S.E. Clark, C. Heiles, T. Robishaw. Magnetic Fields and Polarization in the Diffuse Interstellar Medium. 2019, Astro2020 Science White Paper. arXiv:1903.07671
- 3. D. Stinebring, S. Chatterjee, S.E. Clark., J.M. Cordes, T. Dolch, C. Heiles, [12 authors]. Twelve Decades: Probing the ISM from kiloparsec to sub-AU scales. 2019, Astro2020 Science White Paper. arXiv:1903.073701
- 2. B. Hensley et al. incl. **S.E. Clark**. Determining the Composition of Interstellar Dust with Far-Infrared Polarimetry. 2019, Astro2020 Science White Paper. ADS
- 1. S. Hanany et al. incl. S.E. Clark. PICO: Probe of Inflation and Cosmic Origins. 2019, Probe class mission study for NASA and 2020 Decadal Panel. arXiv:1902.10541

SCIENTIFIC PRESENTATIONS

Significant presentations, including 54 invited talks/colloquia

Invited Conference Talks

80. Invited Talk, Arecibo Observatory Open House, Honolulu, Hawaii	Jan. 2020	
79. Invited Talk, B-Modes from Space, Garching, Germany	Dec. 2019	
78. Invited Talk, IEEE Workshop on Hyperspectral Image and Signal Processing,	Sept. 2019	
Amsterdam, The Netherlands		
77. Invited Talk, The Self-Organized Star Formation Process, Orsay, France	Sept. 2019	
76. Invited Talk, Pathways to the Future of Arecibo Observatory, San Juan, Puerto Rico	Feb. 2019	
75. Invited Talk, Interstellar Filament Paradigm, Nagoya, Japan	Nov. 2018	
74. Invited Talk, The Milky Way in the Age of Gaia, Orsay, France	Oct. 2018	
73. Invited Talk, Gruber Cosmology Conference, Yale University	Sept. 2018	
72. Invited Talk, Cosmology with CMB-S4, Princeton University	Sept. 2018	
71. Invited Talk, CMB Foregrounds Workshop, Flatiron CCA, New York, New York	June 2018	
70. Invited Talk & Panel, PICO Science Meeting, University of Minnesota	May 2018	

69. Invited Talk, CMH Foregrounds Workshop, San Diego, California Nov. 2017 67. Invited Talk, GMIMS Collaboration Workshop, DRAO, Canada Oct. 2017 66. Invited Talk, Magnetic Fields in the Universe VI, Natal, Brazil Oct. 2017 66. Invited Talk, The Interstellar Medium Beyond Three Dimensions, Orsay, France July 2017 65. Invited Talk, The Interstellar Medium Beyond Three Dimensions, Orsay, France July 2017 66. Invited Talk, Midwest Magnetic Fields Workshop, Madison, Wiscousin May 2017 67. Invited Talk, AAS Special Session: New, Fundamental, Cutting-Edge Science from Arceibo Observatory, Grapevine, Texas 67. Invited Talk, Cosmic Rays, Astrophysical Turbulence and Magnetic Reconnection, Natal, Brazil 68. Invited Talk, Simons Observatory Meeting, Princeton, New Jersey 69. Invited Talk, Simons Observatory Meeting, Princeton, New Jersey 60. Invited Talk, Simons Observatory Meeting, Princeton, New Jersey 70. Invited Talk, Simons Observatory Meeting, Princeton, New Jersey 71. Colloquium, Columbia University (virtual) 72. Colloquium, Columbia University (virtual) 73. Colloquium, Caltech 74. Colloquium, Caltech 75. Colloquium, US Banta Cruz 76. Colloquium, US Banta Cruz 77. Colloquium, US Banta Cruz 78. Colloquium, US Banta Cruz 78. Colloquium, US Banta Gruz 78. Colloquium, University of Toronto 88. Invited Talk, Queen's University 89. Colloquium, University of Wirginia/NRAO 80. 2019 80. Colloquium, University of Wirginia/NRAO 80. 2019 81. Invited Talk, McGill Space Institute Seminar, Montreal, Canada 81. Invited Talk, CITA Seminar, Toronto, Canada 82. Invited Talk, CITA Seminar, Toronto, Canada 83. Invited Talk, CITA Seminar, Foronto, Canada 84. Invited Talk, CITA Seminar, Foronto, Canada 85. Invited Talk, CITA Seminar, Foronto, Canada 86. Invited Talk, CIT	60	Invited Talls CMD Engagement & Warlahan Can Diago California	Marr	2017
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44. Invited Talk, Princeton Gravity Group Seminar, Princeton, New Jersey 43. Colloquium, University of Rochester 44. Invited Talk, Princeton University Wednesday Lunch Talk, Princeton, New Jersey 44. Invited Talk, Princeton University Wednesday Lunch Talk, Princeton, New Jersey 44. Invited Talk, UC Berkeley TAC Seminar, Berkeley, California 46. Colloquium, University of Wisconsin - Madison 47. Invited Talk, CIERA/Northwestern Seminar, Evanston, Illinois 48. Invited Talk, Rutgers Astrophysics Seminar, New Brunswick, New Jersey 49. Invited Talk, Rutgers Astrophysics Seminar, New Brunswick, New Jersey 40. Colloquium, Bates College, Lewiston, Maine 40. Colloquium, University of Wisconsin - Madison 40. Colloquium, University of Wisconsin - M	46.	Colloquium, University of Maryland, College Park	Oct.	2019
43. Colloquium, University of Rochester 42. Invited Talk, Princeton University Wednesday Lunch Talk, Princeton, New Jersey 43. Invited Talk, UC Berkeley TAC Seminar, Berkeley, California 44. Invited Talk, UC Berkeley TAC Seminar, Berkeley, California 45. Colloquium, University of Wisconsin - Madison 46. Colloquium, University of Wisconsin - Madison 47. Seminar, Evanston, Illinois 48. Invited Talk, Rutgers Astrophysics Seminar, New Brunswick, New Jersey 49. Colloquium, Bates College, Lewiston, Maine 40. Colloquium, University of Wisconsin - Madison 40. Colloquium, University Boulder, Colorado 41. Invited Talk, Rutgers Astrophysics Seminar, New Beruswick, New Jersey 42. Invited Talk, NRAO/UVA Seminar, Charlottesville, Virginia 43. Invited Talk, OSU CCAPP Price Prize Seminar, Columbus, Ohio 44. Invited Talk, Harvard-Smithsonian CfA Galaxies & Cosmology Seminar, Cambridge, Massachussetts 45. Invited Talk, Harvard-Smithsonian CfA Galaxies & Cosmology Seminar, Cambridge, Massachussetts 46. Invited Talk, CITA Seminar, Toronto, Canada 47. Cambridge, Massachussetts 48. Invited Talk, CITA Seminar, Toronto, Canada 49. 2016 40. Colloquium, Princeton, New Jersey 40. Nov. 2017 40. Colloquium, University Boulder, Boulder, Colorado 40. Colloquium, Pates Valle, Victorian Dec. 2017 41. Invited Talk, Victorian Dec. 2017 42. Invited Talk, Victorian Dec. 2017 43.	45.	Invited Talk, CITA Seminar, Toronto, Canada	Oct.	2019
42. Invited Talk, Princeton University Wednesday Lunch Talk, Princeton, New Jersey 41. Invited Talk, UC Berkeley TAC Seminar, Berkeley, California 42. Colloquium, University of Wisconsin - Madison 43. Invited Talk, CIERA/Northwestern Seminar, Evanston, Illinois 44. Colloquium, University of Wisconsin - Madison 45. Invited Talk, Rutgers Astrophysics Seminar, New Brunswick, New Jersey 46. Invited Talk, NRAO/UVA Seminar, Charlottesville, Virginia 47. Colloquium, Bates College, Lewiston, Maine 48. Invited Talk, NRAO/UVA Seminar, Charlottesville, Virginia 49. Invited Talk, Star Formation/ISM Rendezvous Seminar, Princeton, New Jersey 40. Colloquium, University Boulder, Colorado 40. Colloquium, University Boulder, Colorado 40. Colloquium, University Feb. 2017 40. Colloquium, University Feb. 2018 41. Invited Talk, Rutgers Astrophysics Seminar, Princeton, New Jersey 41. Invited Talk, OSU CCAPP Price Prize Seminar, Columbus, Ohio 42. Invited Talk, GSU CCAPP Price Prize Seminar, Columbus, Ohio 43. Invited Talk, Harvard-Smithsonian CfA Galaxies & Cosmology Seminar, Cambridge, Massachussetts 43. Invited Talk, CITA Seminar, Toronto, Canada 44. Aug. 2016 45. Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado 46. Feb. 2018	44.	Invited Talk, Princeton Gravity Group Seminar, Princeton, New Jersey	Feb.	2019
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39. Invited Talk, CIERA/Northwestern Seminar, Evanston, Illinois 38. Invited Talk, Rutgers Astrophysics Seminar, New Brunswick, New Jersey 37. Colloquium, Bates College, Lewiston, Maine 38. Invited Talk, NRAO/UVA Seminar, Charlottesville, Virginia 39. Invited Talk, NRAO/UVA Seminar, Charlottesville, Virginia 30. Invited Talk, Star Formation/ISM Rendezvous Seminar, Princeton, New Jersey 30. Invited Talk, OSU CCAPP Price Prize Seminar, Columbus, Ohio 31. Invited Talk, Harvard-Smithsonian CfA Galaxies & Cosmology Seminar, Cambridge, Massachussetts 32. Invited Talk, CITA Seminar, Toronto, Canada 33. Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado Aug. 2016	41.	Invited Talk, UC Berkeley TAC Seminar, Berkeley, California	Dec.	2017
38. Invited Talk, Rutgers Astrophysics Seminar, New Brunswick, New Jersey 37. Colloquium, Bates College, Lewiston, Maine 38. Invited Talk, NRAO/UVA Seminar, Maine 39. Invited Talk, NRAO/UVA Seminar, Charlottesville, Virginia 30. Invited Talk, Star Formation/ISM Rendezvous Seminar, Princeton, New Jersey 30. Invited Talk, OSU CCAPP Price Prize Seminar, Columbus, Ohio 31. Invited Talk, Harvard-Smithsonian CfA Galaxies & Cosmology Seminar, Cambridge, Massachussetts 32. Invited Talk, CITA Seminar, Toronto, Canada 33. Invited Talk, JILA Seminar, Toronto, Canada 34. Invited Talk, CITA Seminar, Toronto, Canada 35. Invited Talk, CITA Seminar, Toronto, Canada 36. Invited Talk, OSU CCAPP Price Prize Seminar, Princeton, New Jersey Nov. 2016 Sept. 2016 Sept. 2016 Sept. 2016 Sept. 2016 Teb. 2016	40.	Colloquium, University of Wisconsin - Madison	Nov.	2017
 37. Colloquium, Bates College, Lewiston, Maine 36. Invited Talk, NRAO/UVA Seminar, Charlottesville, Virginia 35. Invited Talk, Star Formation/ISM Rendezvous Seminar, Princeton, New Jersey 34. Invited Talk, OSU CCAPP Price Prize Seminar, Columbus, Ohio 35. Invited Talk, Harvard-Smithsonian CfA Galaxies & Cosmology Seminar, Combridge, Massachussetts 36. Invited Talk, Star Formation/ISM Rendezvous Seminar, Princeton, New Jersey 36. Invited Talk, OSU CCAPP Price Prize Seminar, Columbus, Ohio 37. Invited Talk, Harvard-Smithsonian CfA Galaxies & Cosmology Seminar, Cambridge, Massachussetts 38. Invited Talk, CITA Seminar, Toronto, Canada 39. Invited Talk, JILA Seminar, Toronto, Canada 31. Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado 31. Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado 	39.	Invited Talk, CIERA/Northwestern Seminar, Evanston, Illinois	Oct.	2017
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 35. Invited Talk, Star Formation/ISM Rendezvous Seminar, Princeton, New Jersey 34. Invited Talk, OSU CCAPP Price Prize Seminar, Columbus, Ohio 35. Invited Talk, OSU CCAPP Price Prize Seminar, Columbus, Ohio 36. Invited Talk, Harvard-Smithsonian CfA Galaxies & Cosmology Seminar, Cambridge, Massachussetts 36. Invited Talk, CITA Seminar, Toronto, Canada 37. Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado 38. Invited Talk, CITA Seminar, Toronto, Canada 39. Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado 39. Feb. 2016 30. Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado 	37.	Colloquium, Bates College, Lewiston, Maine	Feb.	2017
 34. Invited Talk, OSU CCAPP Price Prize Seminar, Columbus, Ohio 33. Invited Talk, Harvard-Smithsonian CfA Galaxies & Cosmology Seminar, Cambridge, Massachussetts 32. Invited Talk, CITA Seminar, Toronto, Canada 31. Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado 32. Feb. 2016 33. Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado 	36.	Invited Talk, NRAO/UVA Seminar, Charlottesville, Virginia	Nov.	2016
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Cambridge, Massachussetts 32. Invited Talk, CITA Seminar, Toronto, Canada 31. Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado Feb. 2016	34.	Invited Talk, OSU CCAPP Price Prize Seminar, Columbus, Ohio	Sept.	2016
31. Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado Feb. 2016	33.		Sept.	2016
	32.	Invited Talk, CITA Seminar, Toronto, Canada	Aug.	2016
30. Colloquium, American Museum of Natural History, New York, New York Jan. 2016	31.	Invited Talk, JILA Seminar, Colorado University Boulder, Boulder, Colorado	Feb.	2016
	30.	Colloquium, American Museum of Natural History, New York, New York	Jan.	2016

29.	Invited Talk, Brown Astrophysics Seminar, Providence, Rhode Island	Nov.	2015
28.	Invited Talk, IRAP ISM Seminar, Toulouse, France	Oct.	2015
27.	Invited Talk, IAS, ENS, and CEA/Saclay Joint ISM Seminar, IAS, Orsay, France	Oct.	2015
26.	Invited Talk, PPPL Theory Seminar, Princeton, New Jersey	Dec.	2014
Con	atributed Talks & Posters		
25.	Talk, Molecular Clouds, HII Regions, Interstellar Medium, AAS, Honolulu, Hawaii	Jan.	2020
24.	Talk, Princeton/IAS Cosmology Lunch, Princeton, New Jersey	Oct.	2019
23.	Talk, NASA Hubble Fellowship Program Symposium, Washington, D.C.	Oct.	2019
22.	Talk, New Perspectives on Galactic Magnetism, Newcastle upon Tyne, England	June	2019
21.	Talk, Hubble Fellows Symposium, Baltimore, Maryland	Mar.	2019
20.	Talk, Big Apple Magnetic Fields, New York, New York	Jan.	2019
19.	Talk, Hubble Fellows Symposium, Baltimore, Maryland	Mar.	2018
18.	Talk, IAS Seminar, Princeton, New Jersey	Sept.	2017
17.	Talk, AAS dissertation talk, Dust and Magnetic Fields, Grapevine, Texas	Jan.	2017
16.	Talk, Star Formation, Magnetic Fields, and Diffuse Matter in the Galaxy, Madison, Wisconsin	May	2016
15.	Talk, Magnetic Fields in the Universe V, Corsica, France	Oct.	2015
14.	Talk, Experimental CMB Group, Columbia University, New York, New York	Sept.	2015
13.	Talk, IAU Focus Meeting 5, The Legacy of Planck, Honolulu, Hawaii	Aug.	2015
12.	Poster, IAU Symposium, From Interstellar Clouds to Star-Forming Galaxies: Universal Processes?, Honolulu, Hawaii	Aug.	2015
11.	Talk, Pontifica Universidad Católica, Santiago, Chile	May	2015
10.	Talk, Midwest Magnetic Fields Workshop, Madison, Wisconsin	May	2015
9.	Poster, NSF Directorate for Mathematical & Physical Sciences, New York, New York	Oct.	2014
8.	Poster, Filamentary Structure in Molecular Clouds, NRAO, Charlottesville, Virginia	Oct.	2014
7.	Poster, Galactic Science with the SKA and its Pathfinders, Leiden, Netherlands	May	2014
6.	Talk, Midwest Magnetic Fields Workshop, Madison, Wisconsin	Apr.	2014
5.	Talk, Phases of the ISM Conference, Heidelberg, Germany	July	2013
4.	Talk, Senior Research Symposium, Chapel Hill, North Carolina	Apr.	2012
3.	Poster, AAS Winter Meeting, Austin, Texas	Jan.	2012
2.	Talk, GALFA-HI Collaboration Meeting, Madison, Wisconsin	Aug.	2011
1.	Talk, REU Symposium, Arecibo Observatory, Puerto Rico	Aug.	2011
TEAC	HING EXPERIENCE		
Tear	m Leader, Instructor, Introduction to Astrophysics, Wagner Youth Correctional Facility	У	2019
	ructor, Introduction to Astrophysics, East Jersey State Prison		2018
	h Tutor, Edna Women's Correctional Facility		2018
	st Lecturer, Columbia University, upper-level undergraduate Galaxies course	~~~	2017
	<u> </u>	2015 –	
	st Lecturer, Hunter College, Unsolved Problems in Astrophysics der, Columbia University, Life in the Universe		2016 2014
	ructor, Columbia University, Observational Astronomy Lab		2014
	ructor, Columbia University, Earth, Moon, & Planets Lab		2014
	der, Columbia University, Life in the Universe		2013
	ching Assistant, Columbia University, Galaxies & Cosmology		2013
Teac	ching Assistant, Columbia University, Stars & Atoms		2012

STUDENTS ADVISED

Elizabeth Meador, Pittsburgh University, graduate student	2021 - present
Rodrigo Córdova Rosado, Princeton University, graduate student	2020-present
George Halal, Stanford University, graduate student	2020-present
Doyeon Avery Kim, Columbia University, graduate student	2018-present
Jessica Campbell, University of Toronto, Ph.D. coadviser with Bryan Gaensler	2017 - present
Alexis Demirjian, Barnard College, undergraduate research	2019
Larry Li, Columbia University, undergraduate research	2016 - 2019
Garrison Grogan, Columbia University, undergraduate research	2016 - 2017
Lowell Schudel, Columbia University, undergraduate research	2014 - 2015

PROFESSIONAL ACTIVITIES

Organizer, IAS Informal Seminar	2018-2019
SOC, Cosmology with CMB-S4	2020
Board of Trustees, Association of Members of the IAS	2020 - 2022
Simons Observatory Galactic Science Working Group Co-Leader	2019-present
Member Representative, IAS Diversity Committee	2018-present
SOC, Warm Ionized Medium in Galaxies, Green Bank, West Virginia	2019
Organizer, IAS Informal Seminar	2018 – 2019
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, ApJ , $ApJL$, $A &A$, $Nature\ Astronomy$	
Reviewer/Panelist, NASA, NSF	

Collaboration member: Galactic Arecibo L-Band Feed Array HI Survey (GALFA-HI), Galactic Australian SKA Pathfinder (GASKAP), Global Magneto-Ionic Medium Survey (GMIMS), Atacama Cosmology Telescope (ACT), Simons Observatory (SO), Probe of Inflation and Cosmic Origins (PICO)

SELECTED OUTREACH AND SERVICE

Professional Development Coordinator, SO-NSBP Summer Research Program	2020
Team Leader, Instructor, Prison Teaching Initiative	2018 - 2019
Public Talk, Astronomy on Tap, Trenton, New Jersey	2019
Invited Panelist, Conference for Undergraduate Women in Physics	2018
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, Carolina 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 PUBLISHED WRITING