CURRICULUM VITÆ

NORA SHIPP

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Education & Experience	MIT Kavli Institute for Astrophysics and Space Research, Cambridge, MA Postdoctoral Scholar	September 2021 - present	
	University of Chicago, Chicago, IL Ph.D., Astronomy & Astrophysics Schramm Graduate Fellow, Harper Dissertation Fellow	August 2021	
	 Thesis: Discovery & Modeling of Milky Way Stellar Stream Advisor: Alex Drlica-Wagner 	is	
	LSSTC Data Science Fellow	2016-2018	
	NASA Goddard Space Flight Center, Greenbelt, MD Postbaccalaureate Researcher	2014-2015	
	 Project: Exploring Evidence for Cosmic Ray Acceleration in Westerlund 1 Advisor: Terri J. Brandt 		
	Brown University , Providence, RI Sc.B., with honors in Astrophysics	May 2014	
	 Thesis: Fermi Unidentified Sources: Dark Matter or Astroj Advisor: Savvas M. Koushiappas 	physics	
Honors &	MIT Infinite Expansion Award	2021	
Awards	Schramm Graduate Student FellowshipWilliam Rainey Harper Dissertation Fellowship	2020 - 2021 2020 - 2021	
	Yoichiro Nambu Fellowship	2019	
	• University Research Association Visiting Scholars Program	2018 - 2020	
	• Department of Energy SCGSR Fellowship	2018 - 2019	
	• Illinois Space Grant Consortium Graduate Fellowship	2018 - 2019	
	McCormick Fellowship	2015 - 2017	
	NASA Rhode Island Space Grant Scholarship Proven University Undergraduate Teaching and Research Associated	2012 - 2013	
	Brown University Undergraduate Teaching and Research Awar	rd 2012 - 2013	
Presentation	S Seminars		
	• Texas A&M Mitchell Institute Seminar	Contambon 0000	
	Carnegie Mellon Astro Lunch	September 2022 September 2022	
	CITA Seminar	August 2022	
	• Cambridge Milky Way Group	September 2021	
	Michigan Galaxy Group	February 2021	
	• Carnegie Lunch Talk	January 2021	
	• CCAPP Seminar	November 2020	
	• Yale Galaxy Lunch	September 2020	
	• KIPAC Tea Talk	September 2020	
	• STScI Galaxies Journal Club	September 2020	

 $February\ 2018$

• STScI Galaxies Journal Club • Fermilab Astrophysics Seminar

	Invited Conference Talks	
	DES Collaboration Meeting Plenary Talk	May 2021
	• LSST Dark Matter Workshop	August 2019
	• Fermilab New Perspectives	$June\ 2019$
	• DECam Community Science Workshop	May 2018
	Contributed Conference Talks	
	• Towards Real-Time Galactic Dynamics	$July\ 2022$
	• Satellites and Streams in the Framework of Cosmological Models at EAS	$June \ 2022$
	 53rd Meeting of the AAS Division on Dynamical Astronomy Streams 21: Constraints on Dark Matter 	February 2021
	• 237th Meeting of the American Astronomical Society	January 2021
	• STScI Symposium, The Local Group: Assembly and Evolution	August 2020
	• Small Galaxies, Cosmic Questions	July 2019
	• KICP Near-field Cosmology Workshop	$June\ 2018$
	• American Physical Society April Meeting	$April\ 2018$
	• 231st Meeting of the American Astronomical Society	January 2018
	Poster Presentations	
	• Stasis and Disequilibrium in the Milky Way	$April\ 2019$
	• 233rd Meeting of the American Astronomical Society	January 2019
	• 225th Meeting of the American Astronomical Society	January 2015
Public Press	 Rivers in the Sky, Symmetry Magazine Dark Energy Survey finds remains of 11 galaxies eaten by the Milky Way, UC Dark Energy Survey Reveals That The Milky Way Has Devoured 11 Other Science 	
Outreach,	• Co-founder of IDEA (Inclusion, Diversity, and Equity in Astronomy)	2017 - present
EQUITY &	• Co-chair of Astrobites Diversity Committee	2019 - 2020
Inclusion	• Research Coordinator for Astrobites in the Classroom Study	2017 - 2018
	• Writer for Astrobites	2016 - 2018
	• Astronomy Conversations Presenter at Adler Planetarium	2015 - 2017
	• Founding Member of Astronomy on Tap Chicago	2015 - 2017
Professional		
Service &	Department Committees, University of Chicago	
LEADERSHIP	• Graduate Admissions Committee	2020 - 2021
	• Diversity Committee	2017 - 2020
	• Undergraduate Education Committee	2016 - 2017
	Workshops and Seminars Organized	
	MIT Milky Way Journal Club MILL MILL WAY DO GO	2021 - present
	UChicago Milky Way Discussion Group IDEA (Inclusion Discussion and Equity in Astronomy) Week	2019 - 2021
	 IDEA (Inclusion, Diversity, and Equity in Astronomy) Week KICP LSST Dark Matter Workshop 	August 2020 August 2019
	• IDEA (Inclusion, Diversity, and Equity in Astronomy) Day	May 2019
	Reviewer for Astrophysical Journal, Nature Astronomy, MNRAS	2019 - present
	Observing	
	• Dark Energy Survey (DES) (7 nights)	
	• DECam Local Volume Exploration (DELVE) Survey (3 nights)	

Collaboration Membership

- Dark Energy Survey (DES)
- DECam Local Volume Exploration Survey (DELVE)
- Southern Stellar Stream Spectroscopic Survey (S⁵)
- LSST Dark Energy Science Collaboration (DESC)
- Feedback in Realistic Environments (FIRE)

TEACHING

Lead Instructor

University of Chicago

• Space Explorers KICP Summer Institute

Summer 2018

Guest Lecturer

University of Chicago

• ASTR13300: Introduction to Astrophysics

Spring 2020

• ASTR11901: Physics of Stars

Summer 2018

Teaching Assistant

University of Chicago

• ASTR018200: The Origin and Evolution of the Universe

Winter 2018

• PHSC12620: The Big Bang

Spring 2016

• PHSC12610: Black Holes

Winter 2016

• PHSC12600: Matter, Energy, Space, and Time

Fall 2015

Brown University

• PHYS0270: Introduction to Astronomy

Spring 2012, 2014

• PHYS0220: Astronomy

Fall 2012, 2013, 2014

PUBLICATIONS

First-Author

- [1] **Shipp, N.**, Panithanpaisal, N., Necib, L., et al. "Streams on FIRE: Populations of Detectable Stellar Streams in the Milky Way and FIRE", 2022, submitted to ApJ, arXiv:2208.02255
- [2] Shipp, N., Erkal, D., Drlica-Wagner, A., et al. "Measuring the Mass of the LMC with Stellar Streams Observed by S5", 2021, ApJ, 923, 149, arXiv:2107.13004
- [3] **Shipp, N.**, Price-Whelan, A., Tavangar, K., et al. "Discovery of Extended Tidal Tails Around the Globular Cluster Palomar 13" 2020, AJ, 160, 244, arXiv:2006.12501
- [4] Shipp, N., Li, T. S., Pace, A. B., et al. "Proper Motions of Stellar Streams Discovered in the Dark Energy Survey" 2019, ApJ, 885, 3, arXiv:1907.09488
- [5] Shipp, N., Drlica-Wagner, A., Balbinot, E., et al. "Stellar Streams Discovered in the Dark Energy Survey" 2018, ApJ, 862, 114, arXiv:1801.03097

Significant Contribution

- [6] Li, T. S., Ji, A. P., Pace, A. B., Erkal, D., Koposov, S. E., Shipp, N., et al. "S⁵: The Orbital and Chemical Properties of One Dozen Stellar Streams" 2022, ApJ, 928, 30, arXiv:2110.06950
- [7] Tavangar, K., Ferguson, P. S., **Shipp, N.**, et al. "From the Fire: A Deeper Look at the Phoenix Stream" 2022, ApJ, 925, 118 arXiv:2110.03703
- [8] Ferguson, P. S., **Shipp, N.**, Drlica-Wagner, A., et al. "DELVE-ing into the Jet: a thin stellar stream on a retrograde orbit at 30 kpc" 2022, 163, 18, arXiv:2104.11755

- [9] Li, T. S., Koposov, S., Erkal, D., Ji, A. P. Shipp, N., et al. "Broken into Pieces: ATLAS and Aliqa Uma as One Single Stream" 2021, ApJ, 911, 194, arXiv:2006.10763
- [10] Li, T. S., Koposov, S., Zucker, D., Lewis, G. F., Kuehn, K., Simpson, J. D., Ji, A. P., Shipp, N., et al. "The Southern Stellar Stream Spectroscopic Survey (S5): Overview, Target Selection, Data Reduction, Validation, and Early Science" 2019, MNRAS 490, 3508, arXiv:1907.09481
- [11] Drlica-Wagner, A., Mao, Yao-Yuan, [...], **Shipp, N.**, et al. "Probing the Fundamental Nature of Dark Matter with the Large Synoptic Survey Telescope" 2019, arXiv:1902.01055

Co-Author

- [12] Lilleengen, S., Petersen, M. S., Erkal, D., [...], **Shipp, N.**, et al. "The effect of the deforming dark matter haloes of the Milky Way and the Large Magellanic Cloud on the Orphan-Chenab stream" 2022, submitted to MNRAS, arXiv:2205.01688
- [13] Bechtol, K., Birrer, S., Cyr-Racine, F., [...], **Shipp, N.**, et al. "Snowmass2021 Cosmic Frontier White Paper: Dark Matter Physics from Halo Measurements" 2022, arXiv:2203.07354
- [14] Ji, A. P., Koposov, S. E., Li, T. S., [...], **Shipp, N.**, et al. "Kinematics of Antlia 2 and Crater 2 from The Southern Stellar Stream Spectroscopic Survey (S5)" 2021, arXiv:2106.12656
- [15] Drlica-Wagner, A., Carlin, J. L., Nidever, D. L., [...], Shipp, N., et al. "The DECam Local Volume Exploration Survey: Overview and First Data Release" 2021, ApJS, 256, 2 arXiv:2103.074762103.07476
- [16] Hansen, T. T., Ji, A. P., Da Costa, G. S., [...], **Shipp, N.**, et al. "S5: The Destruction of a Bright Dwarf Galaxy as Revealed by the Chemistry of the Indus Stellar Stream" 2021, ApJ, 915, 103, arXiv:2104.13883
- [17] Ji, A. P., Li, T. S., Hansen, T. T., [...], **Shipp, N.**, et al. "The Southern Stellar Stream Spectroscopic Survey (S5): Chemical Abundances of Seven Stellar Streams" 2020, ApJ, 60, 181, arXiv:2008.07568
- [18] Wan, Z., Lewis, G., Li, T. S., [...], **Shipp, N.**, et al. "The tidal remnant of an unusually metal-poor globular cluster" 2020, Nature, 583, 768, arXiv:2007.14577
- [19] Koposov, S., Boubert, D., Li, T. S., [...], **Shipp, N.**,et al. "The Great Escape: Discovery of a nearby 1700 km/s star ejected from the Milky Way by Sgr A*" 2020, MNRAS 491, 2465, arXiv:1907.11725
- [20] Bechtol, K., Drlica-Wagner, A., [...], Shipp, N., et al. "Dark Matter Science in the Era of LSST" 2019, arXiv:1903.04425
- [21] Erkal, D., Li, T. S., Koposov, S. E., [...], **Shipp, N.**, et al. "Modeling the Tucana III stream a close passage with the LMC" 2018, MNRAS, 481, 3148, arXiv:1804.07762
- [22] Li, T. S., Simon, J. D., Kuehn, K., [...], **Shipp, N.**, et al. "The First Tidally Disrupted Ultra-Faint Dwarf Galaxy? Spectroscopic Analysis of the Tucana III Stream" 2018, ApJ, 866, 22, arXiv:1804.07761
- [23] Abbott, T. M. C., Abdalla, F. B., Allam, S., [...], Shipp, N., et al. "The Dark Energy Survey Data Release 1" 2018, ApJS, 239, 18, arXiv:1801.03181
- [24] Avva, J., Bechtol, K., Chesebro, T., [...], **Shipp, N.**, et al. "Development toward a ground-based interferometric phased array for radio detection of high energy neutrinos" 2017, Nucl. Inst. Meth. A, 869, 46, arXiv:1605.03525

Other

- [25] Thais, S., Leibowitz, S., Rios Gutierrez, A., Passarelli, A., Santo, S., **Shipp, N.**, "Identifying At-Risk Communities and Key Vulnerability Indicators in the COVID-19 Pandemic", 2021, medRxiv:2021.09.19.21263805
- [26] Khullar, G., Kohler, S., Konchady, T., [...], **Shipp, N.**, et al. "Astrobites as a Community-led Model for Education, Science Communication, and Accessibility in Astrophysics" 2019, Bulletin of the American Astronomical Society, 51, 230, arXiv:1907.09496