

CURRICULUM VITÆ
NORA SHIPP

CONTACT
INFORMATION

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EDUCATION &
EXPERIENCE

University of Chicago, Chicago, IL
Ph.D., Astronomy & Astrophysics
Schramm Graduate Fellow, Harper Dissertation Fellow

Summer 2021

- Thesis: Discovery and Modelling of Milky Way Stellar Streams
- Advisor: Alex Drlica-Wagner
- GPA: 3.95

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 Astrophysics*
- Advisor: Savvas M. Koushiappas

HONORS &
AWARDS

- Schramm Graduate Student Fellowship *2020 - 2021*
- William Rainey Harper Dissertation Fellowship *2020 - 2021*
- University Research Association Visiting Scholars Program *2018 - 2020*
- Department of Energy SCGSR Fellowship *2018 - 2019*
- Illinois Space Grant Consortium Graduate Fellowship *2018 - 2019*
- [LSSTC Data Science Fellowship Program](#) *2016 - 2018*
- University of Chicago McCormick Fellowship *2015 - 2017*
- NASA Rhode Island Space Grant Scholarship *2012 - 2013*
- Brown University Undergraduate Teaching and Research Award *2012 - 2013*

PUBLICATIONS

First-Authored Publications

- [1] **Shipp, N.**, Erkal, D., Drlica-Wagner, A., et al. 2020, "*Measuring the Mass of the LMC with the S5 Stellar Streams*", in prep.
- [2] **Shipp, N.**, Price-Whelan, A., Tavangar, K., et al. 2020, "*Discovery of Extended Tidal Tails Around the Globular Cluster Palomar 13*" [arXiv:2006.12501](https://arxiv.org/abs/2006.12501)
- [3] **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](https://arxiv.org/abs/1907.09488)
- [4] **Shipp, N.**, Drlica-Wagner, A., Balbinot, E., et al. "*Stellar Streams Discovered in the Dark Energy Survey*" 2018, ApJ, 862, 114, [arXiv:1801.03097](https://arxiv.org/abs/1801.03097)

Co-Authored Publications

- [5] Ji, Alexander P., Li, Ting S., Hansen, Terese T., [...], **Shipp, N.**, et al. *"The Southern Stellar Stream Spectroscopic Survey (S5): Chemical Abundances of Seven Stellar Streams"* 2020, [arXiv:2008.07568](#)
- [6] Wan, Zhen, Lewis, Geraint, Li, Ting S., [...], **Shipp, N.**, et al. *"The tidal remnant of an unusually metal-poor globular cluster"* 2020, *Nature*, 583, 768, [arXiv:2007.14577](#)
- [7] Li, Ting S., Koposov, Sergey, Erkal, Denis, Ji, Alexander P. **Shipp, N.**, et al. *"Broken into Pieces: ATLAS and Aliqa Uma as One Single Stream"* 2020, [arXiv:2006.10763](#)
- [8] 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](#)
- [9] 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](#)
- [10] Bechtol, K., Drlica-Wagner, A., [...], **Shipp, N.**, et al. *"Dark Matter Science in the Era of LSST"* 2019, [arXiv:1903.04425](#)
- [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](#)
- [12] 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](#)
- [13] 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](#)
- [14] 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](#)
- [15] 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](#)

CONFERENCE PRESENTATIONS

Invited Talks

"DES in 10 Minutes"

- New Perspectives, Fermilab

June 2019

"Stellar Streams Discovered in the Dark Energy Survey"

- DECam Community Science Workshop
- Fermilab Astrophysics Seminar

May 2018

February 2018

Contributed Talks

"Dynamical Modeling of Stellar Streams in the Southern Sky"

- STScI Symposium, The Local Group: Assembly and Evolution *August 2020*

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| | <p><i>"Kinematics of Stellar Streams in the Dark Energy Survey"</i></p> <ul style="list-style-type: none"> • LSST Dark Matter Workshop <i>August 2019</i> • Small Galaxies, Cosmic Questions <i>July 2019</i> |
| | <p><i>"Stellar Streams Discovered in the Dark Energy Survey"</i></p> <ul style="list-style-type: none"> • KICP Near-field Cosmology Workshop <i>June 2018</i> • American Physical Society April Meeting <i>April 2018</i> • 231st Meeting of the American Astronomical Society <i>January 2018</i> |
| | <p><i>Poster Presentations</i></p> <p><i>"Kinematics of Stellar Streams in the Dark Energy Survey"</i></p> <ul style="list-style-type: none"> • Stasis and Disequilibrium in the Milky Way <i>April 2019</i> • 233rd Meeting of the American Astronomical Society <i>January 2019</i> |
| PUBLIC PRESS | <p><i>Stellar Streams Discovered in the Dark Energy Survey</i></p> <ul style="list-style-type: none"> • Rivers in the Sky, Symmetry Magazine • Dark Energy Survey finds remains of 11 galaxies eaten by the Milky Way, UChicago News • Dark Energy Survey Reveals That The Milky Way Has Devoured 11 Other Galaxies, IFL Science |
| OUTREACH, EQUITY & INCLUSION | <p>Co-Founder, Inclusion, Diversity, and Equity in Astronomy (IDEA) <i>2017 - present</i></p> <p>Astronomy Conversations Presenter, Adler Planetarium <i>2015 - 2017</i></p> <p>Founding Member, Astronomy on Tap, Chicago <i>2015 - 2017</i></p> <p>Astrobiters</p> <ul style="list-style-type: none"> • Co-chair, Astrobiters Diversity Committee <i>2019 - present</i> • Research Coordinator, Astrobiters in the Classroom Study <i>2017 - 2018</i> • Writer <i>2016 - 2018</i> <p>Department Committees, University of Chicago</p> <ul style="list-style-type: none"> • Diversity Committee <i>2017 - present</i> • Undergraduate Education Committee <i>2016 - 2017</i> |
| TEACHING | <p>Lead Instructor</p> <p><i>University of Chicago</i></p> <ul style="list-style-type: none"> • Space Explorers KICP Summer Institute <i>Summer 2018</i> <p>Guest Lecturer</p> <p><i>University of Chicago</i></p> <ul style="list-style-type: none"> • ASTR13300: Introduction to Astrophysics <i>Spring 2020</i> • ASTR11901: Physics of Stars <i>Summer 2018</i> <p>Teaching Assistant</p> <p><i>University of Chicago</i></p> <ul style="list-style-type: none"> • ASTR018200: The Origin and Evolution of the Universe <i>Winter 2018</i> • PHSC12620: The Big Bang <i>Spring 2016</i> • PHSC12610: Black Holes <i>Winter 2016</i> • PHSC12600: Matter, Energy, Space, and Time <i>Fall 2015</i> <p><i>Brown University</i></p> <ul style="list-style-type: none"> • PHYS0270: Introduction to Astronomy <i>Spring 2012, 2014</i> • PHYS0220: Astronomy <i>Fall 2012, 2013, 2014</i> |