

Ting Li

Mailing Address

Department of Astronomy and Astrophysics
University of Toronto
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Canada

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Research Interests

Milky Way Formation and Evolution, Stellar Astrophysics, Galaxies, Stellar Streams, Metal-poor Stars, Stellar Populations.

Employment History

Assistant Professor	Jul 2021 –
Department of Astronomy & Astrophysics, University of Toronto 50 St. George Street, Toronto, ON M5S 3H4, Canada	
Carnegie Postdoctoral Fellow	Jul 2019 – Jul 2021
Carnegie Observatories, Carnegie Institution for Science 813 Santa Barbara St, Pasadena, CA 91101, USA	
Leon M. Lederman Postdoctoral Fellow	Aug 2016 – Jul 2019
Fermi National Accelerator Laboratory Kirk and, Pine St, Batavia, IL 60510, USA	
Graduate Research Assistant	Sept 2011 – Aug 2016
Department of Physics & Astronomy, Texas A&M University 578 University Dr, College Station, TX 77843, USA	
Graduate Teaching Assistant	Sept 2010 – Aug 2011
Department of Physics & Astronomy, Texas A&M University 578 University Dr, College Station, TX 77843, USA	

Education

Doctor of Philosophy, Astrophysics, Texas A&M University, Texas, USA	Sep 2010 - Aug 2016
Master of Science, Luleå University of Technology, Kiruna, Sweden	Sep 2008 - Jul 2010
Bachelor of Science, Fudan University, Shanghai, China	Sep 2004 - Jul 2008

PhD Thesis: *Exploring Milky Way Halo Substructures with Large-area Sky Surveys*

Abstract: Over the last two decades, our understanding of the Milky Way has been improved thanks to large data sets arising from large-area digital sky surveys. The Milky Way is now known to be inhabited by a variety of spatial and kinematic stellar substructures, including stellar streams and stellar clouds, all of which are predicted by hierarchical Lambda Cold Dark Matter models of galaxy formation. In this dissertation, I present the discovery and analysis of these new structure and study their implications on the formation and evolution history of our Milky Way.

Thesis Advisors: Prof. Darren L. DePoy, Prof. Jennifer L. Marshall (Texas A&M University)

Grant

Canada CFI/JELF Grant (PI, \$350,000 CAD)	2023 – 2027
Univ. of Toronto Data Science Institute Catalyst Grant (Co-PI, \$100,000 CAD)	2023 – 2025
Univ. Toronto Connaught Grant (PI, \$20,000 CAD)	2022 – 2024
Canada NSERC Discovery Grant (PI, \$155,000 CAD)	2022 – 2027
NASA Hubble Fellowship Program (PI, \$340,000 USD)	2019 – 2021

Honors & Awards

Scialog Fellow, Research Corporation for Science Advancement, Tucson, AZ	2024
Dorothy Shoichet Women Faculty in Science Award of Excellence, U Toronto	2023
Rising Stars in Physics, Princeton University	2022
NASA Hubble Fellowship	2019 – 2021
Carnegie-Princeton Fellowship	2019 – 2021
KICP Associate Fellow, University of Chicago	2016 – 2019
Leon M. Lederman Fellow in Experiment Physics	2016 – 2019
Mitchell Institute Graduate Fellowship, Texas A&M University	2015 – 2016
Dr. Chia-Lai Wang Memorial Scholarship, Texas A&M University	2013 – 2014
Erasmus Mundus Scholarship	2008 – 2010

Student Mentorship

Nasser Mohammed (Graduate at UToronto)	2024 –
Emma Jarvis (Graduate at UToronto)	2024 –
Petra Awad (Graduate at U of Groningen)	2023 – 2024
Grace Yu (Former undergrad at UToronto, now graduate at Bekerley)	2022 – 2024
Mairead Heiger (Graduate at UToronto)	2022 –
Jordan Bruce (Former undergrad at UToronto; now graduate at Indiana)	2021 – 2023
Jessica Patel (Former undergrad at UToronto)	2021 – 2023
Charlie Hughes (Former undergrad at UToronto)	2021 – 2023
William Cerny (Former undergrad at UChicago; now graduate at Yale)	2020 – 2023
Peter Ferguson (Former graduate at Texas A&M; now postdoc at UW Madison)	2019 – 2021
Sydney Jenkins (Former undergrad at UChicago; now graduate at MIT)	2017 – 2021
Nora Shipp (Former graduate at UChicago; now postdoc at MIT)	2018 – 2019
Nicholas Mondrik (Former undergrad at Texas A&M; graduate at Harvard)	2015 – 2016

Public Outreach

Presenter, Star Talks, Astronomy & Space Exploration Association, U. of Toronto	2024
Instructor, Vision of Science Summer Intern Program	2022
Presenter, Astronomy on Tap	2018 –
Lecturer, Fermilab Lifelong Learning Institute (LLI) Program	2018 – 2019
Lecturer, Fermilab Saturday Morning Physics for High School Students	2017 – 2019
Coordinator, Fermilab Saturday Morning Physics for High School Students	2016 – 2019
E/PO representative, Dark Energy Survey	2014 – 2016
Coordinator, Science Olympiad	2014
Instructor, "Expanding Your Horizons" Workshop	2012
Organizer, Texas A&M Physics and Astronomy Festival	2011 – 2014
Organizer, Texas A&M Star Parties	2011 – 2013

Conferences, Seminars, Colloquia

32. Invited Review Talk, IAU Symposium 395 "Stellar populations in the Milky Way and beyond", Paraty, Brazil, Nov 2024
31. Invited Talk, Conference "Galphases24: Accretion in the Local Group", Strasbourg, France, Aug 2024
30. Colloquium, Astronomisches Rechen-Institut, Heidelberg University, Germany, Aug 2024
29. Invited Astroseminar Talk, Waterloo Centre for Astrophysics, University of Waterloo, ON, Mar 2024
28. Colloquium, Department of Astronomy and Physics, Saint Mary's University, Halifax, NS, Nov 2023
27. Colloquium, Department of Physics, Engineering Physics & Astronomy, Queen's University, Kingston, ON, Oct 2023
26. Invited Plenary Talk, DESI Collaboration Meeting, Durham University, Durham, UK, Jul 2023
25. Invited Seminar Talk, Durham University, UK, Jul 2023
24. Invited Seminar Talk, University of Surrey, UK, Jul 2023
23. Colloquium, Kapteyn Astronomical Institute, University of Groningen, the Netherlands, Jul 2023
22. Colloquium, Leiden Observatory, Leiden University, the Netherlands, Jul 2023
21. Invited Review Talk, Pollica Workshop "Self-Interacting Dark Matter: Models, Simulations and Signals", Pollica, Italy, Jun 2023
20. Colloquium, University of Toronto, Toronto, Canada, Sept 2022
19. (remote) Colloquium, Indiana University, Bloomington, IN, USA, Oct 19, 2021
18. (remote) Colloquium, National Research Council of Canada's Herzberg Astronomy and Astrophysics Research Centre, Victoria, BC, Sept 28, 2021
17. (remote) Invited Seminar Talk at N3AS ([Link to Talk](#)), May 11, 2021
16. (remote) Colloquium, the University of British Columbia, Vancouver, Canada, Apr 19, 2021
15. (remote) Invited Seminar Talk, the University of Kentucky, Lexington, KY, Feb 3, 2021
14. (remote) Invited Seminar Talk, UC Davis, Davis, CA, Jan 28, 2021
13. (remote) Invited Seminar Talk, University College London, London, England, Nov 2 2020
12. (remote) Invited Seminar Talk, McGill Space Institute, Montreal, Canada, Oct 13 2020
11. [iPoster](#), 235th AAS Meeting, Honolulu, Hawaii, Jan 2020
10. Colloquium, UC Santa Cruz, Santa Cruz, CA, Nov 2019
9. Colloquium, University of Toronto, Toronto, Canada, Oct 2019
8. Invited Talk, LSST Dark Matter Workshop, University of Chicago, Chicago, IL, Aug 2019
7. Invited Talk, IAU Symposium 353 "Galactic Dynamics in the Era of Large Surveys", Shanghai, China, Jul 2019
6. Invited Talk, Conference "Science in our own Backyard: Exploring the Galaxy and the Local Group with WFIRST", Caltech, Pasadena, CA, Jun 2019
5. Invited Talk, KITP Workshop "In the Balance: Stasis and Disequilibrium in the Milky Way", Santa Barbara, CA, Apr 2019
4. Invited Seminar Talk, Carnegie Mellon University, PA, Mar 2019
3. Participant, Aspen Workshop "Dynamics of the Milky Way System in the Era of Gaia", Aspen, CO, Sep 2018
2. Invited Long-term Participant, KITP Workshop, The Small-Scale Structure of Cold(?) Dark Matter, Santa Babara, CA, May 2018
1. Invited Plenary Talk, SnowPAC, Big Questions, Big Surveys, Big Data: Astronomy & Cosmology in the 2020s, Snowbird, UT, May 2018

Selected Refereed Publications

Summary: 200+ publications, including 10 1st author, 27 2nd/3rd author

h-index: 85

citations: 32000

For a complete publication list, please refer to:

<https://ui.adsabs.harvard.edu/public-libraries/UGFGnC9bTu-vBkgMrqObgg>

or

<https://scholar.google.com/citations?user=JTGDv7MAAAAJ&hl=en>

Papers led by students under my supervision are highlighted with underlines.

88. Awad, P., Li, T. S., Erkal, D. et al., "S5: New insights from deep spectroscopic observations of the tidal tails of the globular clusters NGC 1261 and NGC 1904", 2024, A&A, in press.
87. Simon, J. D., Li, T. S. et al. "Eridanus III and DELVE 1: Carbon-rich Primordial Star Clusters or the Smallest Dwarf Galaxies?", 2024, ApJ, in press, arXiv:2410.08276
86. Danieli, S., Kado-Fong, E., Huang, S., Luo, Y., Li, T. S. et al. "Merian: A Wide-Field Imaging Survey of Dwarf Galaxies at z 0.06-0.10", submitted to ApJ, arXiv:2410.01884
85. Byström, A., Koposov, S. E., Lilleengen, Li, T. S. et al. "Exploring the interaction between the MW and LMC with a large sample of blue horizontal branch stars from the DESI survey", submitted to MNRAS, arXiv:2410.09149
84. Hilmi, T., Erkal, D., Koposov, S. E., Li, T. S. et al. "Inferring dark matter subhalo properties from simulated subhalo-stream encounters", 2024, submitted to MNRAS, arXiv:2404.02953
83. Yu, F., Li, T. S., Speagle, J. S. et al., "The Power of High Precision Broadband Photometry: Tracing the Milky Way Density Profile with Blue Horizontal Branch stars in the Dark Energy Survey", 2024, ApJ, 975, 81Y
82. Valluri, M., Fagrelus, P., Koposov, S. E., Li, T. S. et al. "GD-1 Stellar Stream and Cocoon in the DESI Early Data Release", submitted to ApJ, arXiv:2407.06336
81. Koposov, S. E., Allende P., C., Cooper, A. P., Li, T. S. et al. "DESI Early Data Release Milky Way Survey value-added catalogue", 2024, MNRAS, 533, 1012
80. Hansen, T. T., Simon, J. D., Li, T. S. et al. "Chemical Diversity on Small Scales: Abundance Analysis of the Tucana V Ultrafaint Dwarf Galaxy", 2024ApJ, 968, 21H.
79. Chiti, A., Mardini, M., Limberg, G. et al. (including Li, T. S.) "Enrichment by Extragalactic First Stars in the Large Magellanic Cloud", 2024, NatAs, 8, 637C.
78. Usman, S. A., Ji, A. P., Li, T. S., "Multiple Populations and a CH Star Found in the 300S Globular Cluster Stellar Stream", 2024, MNRAS, 529, 2413U.
77. Heiger, M. E., Li, T. S., Pace, A. B. et al. "Reading Between the (Spectral) Lines: Magellan/IMACS spectroscopy of the Ultra-faint Dwarf Galaxies Eridanus IV and Centaurus I", 2024, ApJ, 961, 234H.
76. Smith, S. E. T., Cerny, W., Hayes, C. R. et al., (including Li, T. S.) "The Discovery of the Faintest Known Milky Way Satellite Using UNIONS", 2024, ApJ, 961, 92S
75. Pace, A. B., Koposov, S. E., Walker, M. G. et al. (including Li, T. S.) "The Kinematics, Metallicities, and Orbits of Six Recently Discovered Galactic Star Clusters with Magellan/M2FS Spectroscopy", 2023, MNRAS, 526, 1075P

74. Kent, S., Neilsen, E., Honscheid, K. et al. (including Li, T. S.) "Astrometric Calibration and Performance of the Dark Energy Spectroscopic Instrument Focal Plane", 2023, AJ, 166, 177K
73. Cerny, W., Drlica-Wagner, A., Li, T. S., et al. "DELVE 6: An Ancient, Ultra-faint Star Cluster on the Outskirts of the Magellanic Clouds", 2023, ApJ, 953L, 21C
72. Cerny, W., Martínez-Vázquez, C. E., Drlica-Wagner, A., (including Li, T. S.) "Six More Ultra-Faint Milky Way Companions Discovered in the DECam Local Volume Exploration Survey", 2023, ApJ, 953, 1C
71. Koposov, S. E., Erkal, D., Li, T. S. et al. "S5: Probing the Milky Way and Magellanic Clouds potentials with the 6D map of the Orphan-Chenab stream", 2023, MNRAS, 521, 4936
70. Shipp, N., Panithanpaisal, N., Necib, L., (including Li, T. S.) "Streams on FIRE: Populations of Detectable Stellar Streams in the Milky Way and FIRE", 2023, ApJ, 949, 44S
69. Bruce, J., Li, T. S. Pace, A. B. et al. "Spectroscopic analysis of Milky Way outer halo satellites: Aquarius II and Boötes II", 2023, ApJ, 950, 167B
68. Li, T. S., Ji, A. P., Pace, A. B. et al. "S⁵: The Orbital and Chemical Properties of One Dozen Stellar Streams", 2022, ApJ, 928, 30
67. Vivas, A. K., Martinez-Vazquez, C. E., Walker, A. R., Belokurov, V., Li, T. S. et al. "Variable Stars in the Giant Satellite Galaxy Antlia 2", 2022, ApJ, 926, 78
66. Tavangar, K., Ferguson, P., Shipp, N., (including Li, T. S.) "From the Fire: A Deeper Look at the Phoenix Stream", 2022, ApJ, 925, 118
65. Ferguson, P. S., Shipp, N., Drlica-Wagner, A., Li, T. S. et al. "DELVE-ing into the Jet: A Thin Stellar Stream on a Retrograde Orbit at 30 kpc", 2022, AJ, 163, 18
64. Mau, S., Nadler, E. O., Wechsler, R. H., (including Li, T. S.) "Milky Way Satellite Census. IV. Constraints on Decaying Dark Matter from Observations of Milky Way Satellite Galaxies", submitted, arXiv:2201.11740
63. Ji, A. P., Koposov, S. E., Li, T. S., et al. "Kinematics of Antlia 2 and Crater 2 from the Southern Stellar Stream Spectroscopic Survey (S⁵)", 2021, ApJ, 921, 32
62. Shipp, N., Erkal, D., Drlica-Wagner, A., Li, T. S., et al. "Measuring the Mass of the Large Magellanic Cloud with Stellar Streams Observed by S⁵", 2021, ApJ, 923, 149
61. Casey, A. R., Ji, A. P., Hansen, T. T., Li, T. S., et al. "Signature of a Massive Rotating Metal-poor Star Imprinted in the Phoenix Stellar Stream", 2021, ApJ, 921, 67
60. Jenkins, S., Li, T. S., Pace, A. B., et al. "VLT Spectroscopy of Ultra-Faint Dwarf Galaxies. 1. Boötes I, Leo IV, Leo V", 2021, ApJ, 920, 92J
59. Drlica-Wagner, A., Carlin, J. L., Nidever, D. L., et al. (including Li, T. S.) "The DECam Local Volume Exploration Survey: Overview and First Data Release", 2021, ApJS, 256, 2
58. Abbott, T. M. C., Adamów, M., Aguena, M. et al. (including Li, T. S.) "The Dark Energy Survey Data Release 2", 2021, ApJS, 255, 2, 20
57. Hansen, T. T., Ji, A. P., Da Costa, G. S., Li, T. S., et al. "S⁵: The Destruction of a Bright Dwarf Galaxy as Revealed by the Chemistry of the Indus Stellar Stream", 2021, ApJ, 915, 103
56. Lu, W., Fuller, J., Raveh, Y., Perets, H. B., Li, T. S., et al. "The former companion of hyper-velocity star S5-HVS1", 2021, MNRAS, 503, 603

55. **Li, T. S.**, Koposov, S. E., Erkal, D., et al. "Broken into Pieces: ATLAS and Aliqa Uma as One Single Stream", 2021, *ApJ*, 911, 149
54. Nadler, E. O., Drlica-Wagner, A., Bechtol, K., et al. (including **Li, T. S.**) "Constraints on Dark Matter Properties from Observations of Milky Way Satellite Galaxies", 2021, *PhRvL*, 126, 1101
53. Cerny, W., Pace, A. B., Drlica-Wagner, A., et al. (including **Li, T. S.**) "Discovery of an Ultra-faint Stellar System near the Magellanic Clouds with the DECam Local Volume Exploration Survey", 2021, *ApJ*, 910, 18
52. Tanoglidis, D., Drlica-Wagner, A., Wei, K., **Li, T. S.**, et al. "Shadows in the Dark: Low-surface-brightness Galaxies Discovered in the Dark Energy Survey", 2021, *ApJS*, 252, 18
51. Simon, J. D., Brown, T. M., Drlica-Wagner, **Li, T. S.**, et al. "Eridanus II: A Fossil from Reionization with an Off-center Star Cluster", 2021, *ApJ*, 908, 18
50. Chang, J., Yuan, Z., Xue, X-X, Simion, I. T., Kang, X., **Li, T. S.**, et al. "Is NGC 5824 the Core of the Progenitor of the Cetus Stream?", 2020, *ApJ*, 905, 100
49. Ji, A. P., **Li, T. S.**, Hansen, T. T., et al. "The Southern Stellar Stream Spectroscopic Survey (S5): Chemical Abundances of Seven Stellar Streams", 2020, *AJ*, 160, 181
48. Hansen, T. T., Marshall, J. L., Simon, J. D., **Li, T. S.**, et al. "Chemical Analysis of the Ultrafaint Dwarf Galaxy Grus II. Signature of High-mass Stellar Nucleosynthesis", 2020, *ApJ*, 897, 183
47. Li, Z-Z; Qian, Y-Z; Han, J.; **Li, T. S.**, et al. "Constraining the Milky Way Mass Profile with Phase-space Distribution of Satellite Galaxies", 2020, *ApJ*, 894, 10
46. Nadler, E. O., Wechsler, R. H., Bechtol, K. et al. (including **Li, T. S.**), "Milky Way Satellite Census. II. Galaxy-Halo Connection Constraints Including the Impact of the Large Magellanic Cloud", 2020, *ApJ*, 893, 48
45. Drlica-Wagner, A., Bechtol, K., Mau, S., McNanna, M., Nadler, E. O., Pace, A. B., **Li, T. S.** et al., "Milky Way Satellite Census. I. The Observational Selection Function for Milky Way Satellites in DES Y3 and Pan-STARRS DR1", 2020, *ApJ*, 893, 47
44. Allende Prieto, C., Cooper, A. P., Dey, A., Gansicke, B. T., Koposov, S. E., **Li, T. S.**, et al. "Preliminary Target Selection for the DESI Milky Way Survey (MWS)", 2020, *Research Notes of the AAS*, 4, 10
43. Simon, J. D., **Li, T. S.**, Erkal, D., et al. "Birds of a Feather? Magellan/IMACS Spectroscopy of the Ultra-faint Satellites Grus II, Tucana IV, and Tucana V", 2020, *ApJ*, 892, 137
42. Wan, Z., Lewis, G. F., **Li, T. S.**, et al. "The tidal remnant of an unusually metal-poor globular cluster", 2020, *Nature*, 583, 768
41. Koposov, S. E., Boubert, D., **Li, T. S.**, et al. "Discovery of a nearby 1700 km/s star ejected from the Milky Way by Sgr A*", 2020, *MNRAS*, 491, 2465
40. Ji, A. P., **Li, T. S.**, Simon, J. D., et al. "Detailed Abundances in the Ultra-faint Magellanic Satellites Carina II and III", 2020, *ApJ*, 889, 27
39. **Li, T. S.**, Koposov, S. E., Zucker, D. B., et al. "The Southern Stellar Stream Spectroscopic Survey (S5): Overview, Target Selection, Data Reduction, Validation, and Early Science", 2019, *MNRAS*, 490, 3508
38. 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

37. Torrealba, G., Belokurov, V., Koposov, S. E., **Li, T. S.**, et al. "The hidden giant: discovery of an enormous Galactic dwarf satellite in Gaia DR2", 2019, MNRAS, 488, 2743
36. Erkal, D., Belokurov, V., Laporte, C. F. P., Koposov, S. E., **Li, T. S.**, et al. "The total mass of the Large Magellanic Cloud from its perturbation on the Orphan stream", 2019, MNRAS, 487, 2685
35. Koposov, S. E., Belokurov, V., **Li, T. S.**, et al. "Piercing the Milky Way: an all-sky view of the Orphan Stream", 2019, MNRAS, 485, 4726
34. Wang, M. Y., de Boer, T., Pieres, A., **Li, T. S.**, et al. "The Morphology and Structure of Stellar Populations in the Fornax Dwarf Spheroidal Galaxy from Dark Energy Survey Data", 2019, ApJ, 881, 118
33. Pace, A. B. & **Li, T. S.**, "Proper motions of Milky Way Ultra-Faint satellites with *Gaia* DR2 \times DES DR1", 2019, ApJ, 875, 77
32. Dey, Arjun et al. (including **Li, T. S.**), "Overview of the DESI Legacy Imaging Surveys", 2019, AJ, 157, 168
31. Wang, M. Y., Koposov, S., Drlica-Wagner, A., Pieres, A., **Li, T. S.**, "Rediscovery of the Sixth Star Cluster in the Fornax Dwarf Spheroidal Galaxy", 2019, ApJ, 875, 13
30. Abbott, B. P., et al. (including **Li, T. S.**), "The Dark Energy Survey: Data Release 1", 2018, ApJS, 239, 18
29. Erkal, D., **Li, T. S.**, Koposov, S. E., Belokurov, V., et al., "Modelling the Tucana III stream - a close passage with the LMC", 2018, MNRAS, 481, 3148.
28. **Li, T. S.**, Simon, J. D., Kuehn, K., et al., "The First Tidally Disrupted Ultra-Faint Dwarf Galaxy? - Spectroscopic Analysis of the Tucana III Stream", 2018, ApJ, 866, 22.
27. **Li, T. S.**, Simon, J. D., Pace, A. B., et al. "Ships Passing in the Night: Spectroscopic Analysis of Two Ultra-faint Satellites in the Constellation Carina", 2018, ApJ, 857, 145.
26. Shipp, N., Drlica-Wagner, A., Balbinot, E., Ferguson, P., Erkal, D., **Li, T. S.**, et al., "Stellar Streams Discovered in the Dark Energy Survey", 2018, ApJ, 862, 114.
25. Bernstein, G. M., Abbott, T. M. C., Armstrong, R., Burke, D. L., Diehl, H. T., Gruendl, R. A., Johnson, M. D., **Li, T. S.**, et al., "Photometric Characterization of the Dark Energy Camera", 2018, PASP, 130, 4501.
24. Bergemann, M., Sesar, B., Cohen, J., Serenelli, A. M., Sheffield, A. A., **Li, T. S.** et al., "Witnessing Galactic eviction – disc stars at extreme locations around our Galaxy", 2018, Nature, 555, 334.
23. Nagasawa, D. Q., Marshall, J. L., **Li, T. S.** et al. "Chemical Abundance Analysis of Three α -Poor, Metal-Poor Stars in the Ultra-Faint Dwarf Galaxy Horologium I", 2018, ApJ, 852, 99.
22. Torrealba, G. et al. (including **Li, T. S.**), "Discovery of two neighbouring satellites in the Carina constellation with MagLiteS", 2018, MNRAS, 475, 5085
21. Drlica-Wagner, A., et al. (including **Li, T. S.**), "Dark Energy Survey Year 1 Results: Photometric Data Set for Cosmology", 2018, ApJS, 235, 33.
20. Abbott, B. P., et al. (including **Li, T. S.**), "A gravitational-wave standard siren measurement of the Hubble constant", 2017, Nature, 551, 85.
19. Abbott, B. P., et al. (including **Li, T. S.**), "Multi-messenger Observations of a Binary Neutron Star Merger", 2017, ApJ, 848, L12.

18. Cowperthwaite, P. S., et al. (including **Li, T. S.**), "The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. II. UV, Optical, and Near-infrared Light Curves and Comparison to Kilonova Models", 2017, *ApJ*, 848, L17.
17. Soares-Santos, M., et al. (including **Li, T. S.**), "The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. I. Discovery of the Optical Counterpart Using the Dark Energy Camera", 2017, *ApJ*, 848, L16.
16. Johnston, K. V., Price-Whelan, A. M., Bergemann, M., Laporte, C., **Li, T. S.** et al., "Disk Heating, Galactoseismology, and the Formation of Stellar Halos", 2017, *Galax*, 5, 44.
15. **Li, T. S.**, Sheffield, A. A., Johnston, K. V., Marshall, J. L., Majewski, S. R. et al., "Exploring Halo Substructure with Giant Stars", 2017, *ApJ*, 844, 74.
14. Burke, D., Rykoff, E., et al. (including **Li, T. S.**), Forward Global Photometric Calibration of the Dark Energy Survey, 2018, *AJ*, 155, 41.
13. **Li, T. S.**, Simon, J. D., Drlica-Wagner, A., Bechtol, K., et al. "Farthest Neighbor: The Distant Milky Way Satellite Eridanus II", 2017, *ApJ*, 838, 8
12. Simon, J. D., **Li, T. S.**, Drlica-Wagner, A., Bechtol, K., et al. "Nearest Neighbor: The Low-mass Milky Way Satellite Tucana III", 2017, *ApJ*, 838, 44
11. Hansen, T. T., Simon, J. D., Marshall, J. L., **Li, T. S.**, et al. "An r-process Enhanced Star in the Dwarf Galaxy Tucana III", 2017, *ApJ*, 838, 11
10. **Li, T. S.**, DePoy, D. L., Marshall, J. L., Tucker, D. L., Bernstein, G. M., et al. "Assessment of Systematic Chromatic Errors that Impact Sub-1% Photometric Precision in Large-Area Sky Surveys", 2016, *AJ*, 151, 157
9. **Li, T. S.**, Balbinot, E., Mondrik, N., et al. "Discovery of a Stellar Overdensity in Eridanus-Phoenix in the Dark Energy Survey", 2016, *ApJ*, 817, 135
8. Balbinot, E., Yanny, B., **Li, T. S.**, et al. "The Phoenix stream: a cold stream in the Southern hemisphere", 2016, *ApJ*, 820, 58.
7. Melendez, J., Placco, V. M., Tucci-Maia, M., Ramirez, I., **Li, T. S.**, "2MASS J18082002-5104378: The Brightest ($V=11.9$) Ultra Metal-Poor Star", 2016, *A&A*, 585, 5
6. Simon, J. D., Drlica-Wagner, A., **Li, T. S.**, et al. "Stellar Kinematics and Metallicities in the Ultra-faint Dwarf Galaxy Reticulum II", 2015, *ApJ*, 808, 95
5. Drlica-Wagner, A., et al. (including **Li, T. S.**), "Eight Ultra-faint Galaxy Candidates Discovered in Year Two of the Dark Energy Survey", 2015, *ApJ*, 813, 109.
4. Drlica-Wagner, A., et al. (including **Li, T. S.**), "Search for Gamma-Ray Emission from DES Dwarf Spheroidal Galaxy Candidates with Fermi-LAT Data", 2015, *ApJ*, 809, L4
3. Bechtol, K., et al. (including **Li, T. S.**), "Eight New Milky Way Companions Discovered in First-year Dark Energy Survey Data", 2015, *ApJ*, 807, 50
2. Flaugher, B., et al. (including **Li, T. S.**), "The Dark Energy Camera", 2015, *AJ*, 150, 150
1. **Li, T. S.**, Marshall, J. L., Lépine, S., Williams, P., Chavez, J., "Optical BVRI Photometry of Common Proper Motion F/G/K+M Wide Separation Binaries", 2014, *AJ*, 148, 60