

Ting Li

Mailing Address

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Research Interests

Near-field Cosmology, Galactic Archaeology, Dark Matter, Dwarf Galaxies, Stellar Streams, Metal-poor Stars, Stellar Spectroscopy, Stellar Populations, Ground-based Instrumentation, Optical Observations, Modern Sky Surveys, Data and Survey Science.

Research Positions

Assistant Professor Department of Astronomy and Astrophysics, University of Toronto Toronto, Canada	2021 –
NASA Hubble Fellowship Program Einstein Fellow Carnegie Observatories, Carnegie Institution for Science Pasadena, California, USA Science Contact: <i>Joshua Simon</i>	2019 – 2021
Leon M. Lederman Fellow in Experimental Physics Fermi National Accelerator Laboratory Batavia, Illinois, USA Science Contact: <i>Brenna Flaugher</i>	2016 – 2019

Education

Ph.D., Physics , Texas A&M University, Texas, USA Thesis: <i>Exploring Milky Way Halo Substructures with Large-area Sky Surveys</i> Advisors: <i>Dr. Darren L. DePoy, Dr. Jennifer L. Marshall (Co-chair)</i>	2010 - 2016
M.S., Space Science and Technology (SpaceMaster – Erasmus Mundus Course) Luleå University of Technology, Kiruna, Sweden Université Paul Sabatier Toulouse III, Toulouse, France Thesis: <i>Design of the High Energy Particle Instrument for Electrons for the Energization and Radiation in Geospace Mission</i> Advisor: <i>Masafumi Hirahana, University of Tokyo / JAXA</i>	2008 - 2010
B.S., Physics , Fudan University, Shanghai, China Thesis: <i>Study of Quasar Accretion Disk with Microlensing</i> Advisor: <i>Feng Yuan, Shanghai Astronomical Observatory</i>	2004 - 2008
Minor, Diplomacy , Fudan University, Shanghai, China	2004 - 2008

Student Mentorship

Charlie Hughes (undergrad at UToronto)	2021 –
• Magellan/IMACS spectroscopy on globular clusters	
Jessica Patel (undergrad at UToronto)	2021 –
• VLT/GIRAFF spectroscopy on dwarf galaxies	
Charlie Hughes (undergrad at UToronto)	2021 –
• Photometric metallicity with S5 and DECam	
William Cenry (undergrad at UChicago)	2021 –
• Magellan/IMACS spectroscopy on dwarf galaxies	
Sydney Jenkins (Former undergrad at UChicago; now graduate at MIT)	2018 – 2021
• Publication 59 in "Selected Refereed Publication" list	
Nora Shipp (Former graduate at UChicago; now postdoc at MIT)	2017 – 2021
• Publication 26 & 38 & 61 in "Selected Refereed Publication" list	
Ethan Tse (High school student at IMSA)	2018 – 2019
• Data quality assurance for S5	
Daniel Nagasawa (Former graduate student at Texas A&M)	2015 – 2018
• Publication 23 in "Selected Refereed Publication" list	
Nicholas Mondrik (Former undergrad at Texas A&M; graduate at Harvard)	2015 – 2016
• Publication 9 in "Selected Refereed Publication" list	

Honors & Awards

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	2015 – 2016
Dr. Chia-Lai Wang Memorial Scholarship	2013 – 2014
Erasmus Mundus Scholarship	2008 – 2010
Graduated with First - Class Student, Fudan University	2008
People's Scholarship, Fudan University	2004 – 2008

Scientific Collaborations

Member, SDSS-V	2021 –
https://www.sdss5.org/	
PI, Southern Stellar Stream Spectroscopic Survey (S5)	2018 –
https://s5collab.github.io/	
Member, DECam Local Volume Exploration (DELVE)	2018 –
https://delve-survey.github.io/	
Member, LSST Dark Energy Science Collaboration (DESC)	2016 –
https://lsstdesc.org/	
Member, Dark Energy Spectroscopic Instrument (DESI)	2016 –
https://www.desi.lbl.gov/	
Member, Magellanic Satellites Survey (MagLiteS)	2016 –
Builder, Dark Energy Survey (DES)	2015 –
Member, Dark Energy Survey (DES)	2012 –
https://www.darkenergysurvey.org/	

Service and Leadership

Canadian Time Allocation Committee for Gemini and CFHT	2022 –
DESI Publication Board	2021 –
Canadian Rep on the MSE Science Advisory Group	2021 –
Astronomy Colloquium Committee, University of Toronto	2021 –
TMT/WFOS Science Team Member	2021 –
S5 Project Leader/Founder (~ 40 members)	2018 –
DES Milky Way Working Group Coordinator (~ 50 members)	2018 – 2021
Group Leader, Dark Matter Group for Maunakea Spectroscopic Explorer	2018 –
SOC member, Kavli/AURA Workshop Series "Petabytes to Science"	2018 – 2019
SOC chair, KICP Workshop "Near-Field Cosmology with DES's DR1"	2018
Co-organizer, Astro Seminar, Fermilab	2018 – 2019
Group Leader, DES Chromatic Correction and Interstellar Reddening Task Force	2017 – 2019
DES Early Career Scientist Committee	2016 – 2018
Referee for Nature, ApJ, ApJL, MNRAS, Astronomy & Astrophysics	2015 –

Public Outreach

Presenter, Astronomy on Tap	2018 – 2019
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

Observation, Data Reduction & Instrumentation Experience

Contribution to DES:

- Commissioning and Operation, Photometric Calibration, Data Release
- Designed and built the Atmospheric Transmission Monitoring Camera (aTmCam), including 100+ nights of prototype testing and instrument commissioning
- Earned **DES builder status (authorship)** and **personal data rights** since 2015

Contribution to DESI:

- Active Optics System on Focus and Alignment for DESI
- Target selection and survey planning for Milky Way Survey
- Earned **DESI external participant status** since 2019

Assembled over 80 Instrument Collimators of the Visible Integral-Field Replicable Unit Spectrographs for the Hobby-Eberly Telescope Dark Energy Experiment (HETDEX)

Extensive observing experience:

- Optical imaging: Blanco(4m)/DECam (80+ nights)
- Optical spectroscopy: Magellan(6.5m)/IMACS (60+ nights), Magellan(6.5m)/MIKE (20+ nights), Magellan(6.5m)/M2FS (8 nights); McDonald Observatory, 2.1m/ES2 (30+ nights), 2.7m/VIRUS-P (9 nights).
- **Served as PI or co-PI for over 100 nights on 4m–8m class telescopes, including 50+ nights on Anglo-Australian Telescope, 20+ nights on Magellan, and 100+ hours on VLT**

Selected Recent Conferences, Seminars, Colloquia

30. Invited Plenary Talk, TeV Particle Astrophysics 2021 Conference, Chengdu, China, Oct 27, 2021
29. Colloquium, Indiana University, Bloomington, IN, USA, Oct 19, 2021
28. Colloquium, National Research Council of Canada's Herzberg Astronomy and Astrophysics Research Centre, Victoria, BC, Sept 28, 2021
27. Invited Seminar Talk at N₃AS ([Link to Talk](#)), May 11, 2021
26. Colloquium, the University of British Columbia, Vancouver, Canada, Apr 19, 2021
25. Invited Seminar Talk, the University of Kentucky, Lexington, KY, Feb 3, 2021
24. Invited Seminar Talk, UC Davis, Davis, CA, Jan 28, 2021
23. Invited Seminar Talk, University College London, London, England, Nov 2 2020
22. Invited Seminar Talk, McGill Space Institute, Montreal, Canada, Oct 13 2020
21. [iPoster](#), 235th AAS Meeting, Honolulu, Hawaii, Jan 2020
20. Colloquium, UC Santa Cruz, Santa Cruz, CA, Nov 2019
19. Colloquium, University of Toronto, Toronto, Canada, Oct 2019
18. Invited Talk, LSST Dark Matter Workshop, University of Chicago, Chicago, IL, Aug 2019
17. Invited Talk, IAU Symposium 353 "Galactic Dynamics in the Era of Large Surveys", Shanghai, China, Jul 2019
16. Invited Talk, Conference "Science in our own Backyard: Exploring the Galaxy and the Local Group with WFIRST", Caltech, Pasadena, CA, Jun 2019
15. Invited Talk, KITP Workshop "In the Balance: Stasis and Disequilibrium in the Milky Way", Santa Barbara, CA, Apr 2019
14. Invited Seminar Talk, Carnegie Mellon University, PA, Mar 2019
13. Contributed Talk, Conference "Massively multiplexed spectroscopy with MSE: Science, Project and Vision", Tucson, AZ, Feb 2019
12. Invited Seminar Talk, University of Notre Dame, Notre Dame, IN, Oct 2018
11. Invited Participant, Kavli/AURA Salon Workshop "Petabytes to Science", Chicago, IL, Jul 2018
10. Participant, Aspen Workshop "Dynamics of the Milky Way System in the Era of Gaia", Aspen, CO, Sep 2018
9. Organizer, KICP Workshop, Near-Field Cosmology with DES's DR1 and Beyond, Chicago, IL, Jun 2018
8. Invited Long-term Participant, KITP Workshop, The Small-Scale Structure of Cold(?) Dark Matter, Santa Babara, CA, May 2018
7. Invited Plenary Talk, SnowPAC, Big Questions, Big Surveys, Big Data: Astronomy & Cosmology in the 2020s, Snowbird, UT, May 2018
6. Colloquium, CSIRO Astronomy and Space Science, Sydney, Australia, Nov 2017
5. Colloquium, Australia Astronomical Observatory, Sydney, Australia, Nov 2017
4. Invited Seminar Talk, University of Pittsburgh, Pittsburgh, PA, Oct 2017
3. Invited Webinar Talk, LineA, Brazil, Sep 2017
2. Contributed Talk, Conference "Shedding Light on the Dark Universe with Extremely Large Telescopes", Lanzhou, China, Aug 2017
1. Invited Seminar Talk, Texas A&M University, College Station, TX, May 2017

Selected Refereed Publications

Summary: 200+ refereed publications, including 10 1st author, 15 2nd/3rd author, 40+ with significant contributions.

h-index: 65

citations since 2017: 23000

For complete publication list, please refer to:

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

or

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

66. **Li, T. S.**, Ji, A. P., Pace, A. B. et al. " S^5 : The Orbital and Chemical Properties of One Dozen Stellar Streams", in press, arXiv:2110.06950
65. Yuan, Z., Malhan, K., Sestito, F., (including **Li, T. S.**) "The Complexity of the Cetus Stream Unveiled from the Fusion of STREAMFINDER and StarGO", in press, arXiv:2112.05775
64. 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
63. Tavangar, K., Ferguson, P., Shipp, N., (including **Li, T. S.**) "From the Fire: A Deeper Look at the Phoenix Stream", 2022, ApJ, 925, 118
62. 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 (S^5)", 2021, ApJ, 921, 32
61. 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 S^5 ", 2021, ApJ, 923, 149
60. 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
59. 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
58. 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
57. Hansen, T. T., Ji, A. P., Da Costa, G. S., **Li, T. S.**, et al. " S^5 : 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, 27J
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

Selected Conference Proceedings

6. Meisner, A. M., et al. (including **Li, T. S.**), "Performance of Kitt Peak's Mayall 4-meter telescope during DESI commissioning", 2020, Proc. of SPIE Vol. 11447, 1144794
5. Drlica-Wagner, A., Marrufo Villalpando, E., O'Neil, J., Estrada, J., Holland, S., Kurinsky, N., **Li, T. S.**, "Characterization of skipper CCDs for cosmological applications", 2020, Proc. of SPIE Vol. 11454, 114541A
4. **Li, T. S.**, DePoy, D. L., Marshall, J. L., Nagasawa, D. Q., Carona, D. W., Boada, S., "Monitoring the atmospheric throughput at Cerro Tololo Inter-American Observatory with aTmCam", 2014, Proc. of SPIE Vol. 9147, 91476Z, arXiv:14077047

3. DePoy, D. L., Allen, R., **Li, T. S.**, Marshall, J. L., Papovich, C., Prochaska, T., Shectman, S., "An update on the wide field, multi-object, moderate-resolution, spectrograph for the Giant Magellan Telescope", 2014, Proc. of SPIE Vol. 9147, 914720
2. Marshall, J. L., DePoy, D. L., Prochaska, T., Allen, R.D., Williams, P., Rheault, J.-P., **Li, T. S.**, and 22 colleagues, "VIRUS instrument collimator assembly", 2014, Proc. of SPIE Vol. 9147, 91473S
1. **Li, T. S.**, DePoy, D. L., Kessler, R., Burke, D. L., Marshall, J. L., Wise, J., Rheault, J.-P., Carona, D. W., Boada, S., Prochaska, T., Allen, R., "aTmcam: a simple atmospheric transmission monitoring camera for sub 1% photometric precision", 2012, Proc. of SPIE Vol. 8446, 84462L, arXiv:14077047

Selected White Papers, Reports, Books

7. Facilitator for Snowmass CF03 white papers
6. Author for 7 Astro2020 Science White Papers (including one leading author).
5. Chapter Leader, The Detailed Science Case for the Maunakea Spectroscopic Explorer, 2019 edition, 2019, arXiv:1904.04907 (entire document), arXiv: 1903.03155 (one chapter)
4. Chapter Author, Probing the Fundamental Nature of Dark Matter with the Large Synoptic Survey Telescope, 2019, arXiv:1902.01055
3. Organizer and Chapter Author, Petabytes to Science, 2019, arXiv:1905.05116
2. Chapter Author, GMT Science Book 2018: https://www.gmto.org/gallery/gmt-resources/#GMT_Science_Book_2018
1. Chapter Author, Maximizing Science in the Era of LSST: A Community-Based Study of Needed US Capabilities, 2016, arXiv:1610.01661