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Department of Astronomy and Astrophysics

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Canada

Research Interests

Near-field Cosmology, Dark Matter, Dwarf Galaxies, Stellar Streams, Stellar Kinematics; Galactic Archaeology, Metal-poor Stars, Stellar Populations, First Stars and Galaxies; Ground-based Instrumentation, Optical Spectrograph, Stellar Spectroscopy; Modern Sky Surveys, Survey Commissioning and Science Verification; Survey Science.

Research Positions

Assistant Professor	2021 -
Assistant Professor	2021 -

Department of Astronomy and Astrophysics, University of Toronto

Toronto, Canada

Hubble Fellow, Carnegie-Princeton Fellow 2019 – 2021

Carnegie Observatories, Carnegie Institution for Science

Pasadena, California, USA

Department of Astrophysical Sciences, Princeton University

Princeton, New Jersey, USA

Leon M. Lederman Fellow in Experimental Physics 2016 – 2019

Fermi National Accelerator Laboratory

Batavia, Illinois, USA

Research Associate 2011 – 2016

Department of Physics & Astronomy, Texas A&M University

College Station, Texas, USA

Research Associate 2010

Department of Earth & Planetary Science, Tokyo University

Tokyo, Japan

Summer Research Intern Summer 2009

Swedish Institute of Space Physics

Kiruna, Sweden

Education	
Ph.D., Physics, Texas A&M University, Texas, USA Thesis: Exploring Milky Way Halo Substructures with Large-area Sky Surveys Advisors: Dr. Dawen L. DePey, Dr. Lawrifort L. Marchell (Co. sheir)	Aug 2016
Advisors: Dr. Darren L. DePoy, Dr. Jennifer L. Marshall (Co-chair) M.S., Space Science and Technology (SpaceMaster – Erasmus Mundus Course Luleå University of Technology, Kiruna, Sweden Université Paul Sabatier Toulouse III, Toulouse, France Thesis: Design of the High Energy Particle Instrument for Electrons for the Energization and Radiation in Geospace Mission Advisor: Masafumi Hirahana, University of Tokyo / JAXA B.S., Physics, Fudan University, Shanghai, China	Aug 2010 Jun 2008
Thesis: Study of Quasar Accretion Disk with Microlensing Advisor: Feng Yuan, Shanghai Astronomical Observatory Minor, Diplomacy, Fudan University, Shanghai, China	Jun 2008
Honors & Awards	
NASA Hubble Fellowship Joint Carnegie-Princeton Fellowship KICP Associate Fellow, University of Chicago Leon M. Lederman Fellow in Experiment Physics Mitchell Institute Graduate Fellowship Dr. Chia-Lai Wang Memorial Scholarship Erasmus Mundus Scholarship Graduated with First - Class Student, Fudan University People's Scholarship, Fudan University	2019 - 2022 2019 - 2024 2016 - 2019 2016 - 2019 2015 - 2016 2013 - 2014 2008 - 2010 2008 2004 - 2008
Scientific Collaborations	
PI, Southern Stellar Stream Spectroscopic Survey (S5) https://s5collab.github.io/	2018 –
Member, DECam Local Volume Exploration (DELVE) https://delve-survey.github.io/	2018 –
Member, LSST Dark Energy Science Collaboration (DESC)	2016 –
Member, Dark Energy Spectroscopic Instrument (DESI)	2016 –
Member, Magellanic Satellites Survey (MagLiteS)	2016 –
Builder, Dark Energy Survey (DES)	2015 -
Member, Dark Energy Survey (DES)	2012 -

Service and Leadership

Referee for ApJ, ApJL, MNRAS, Astronomy & Astrophysics	2015 -
S5 Project Leader/Founder (~ 40 members)	2018 -
DES Milky Way Working Group Coordinator (~ 50 members)	2018 – 2021
Group Leader, Dark Matter Group for Maunekea 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
Community Study Author, "Maximizing Science in the Era of LSST"	2016

Student Mentoring

Sydney Jenkins (Former undergrad at UChicago; graduate at MIT)	2018 – 2021
 Publication 49 in "Selected Refereed Publication" list 	
Nora Shipp (Former graduate at UChicago; postdoc at MIT)	2017 – 2021
 Publication 26 & 38 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	

Teaching and Outreach

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	May 2014
Instructor, "Expanding Your Horizons" Workshop	Nov 2012
Organizer, Texas A&M Physics and Astronomy Festival	April 2011 – 2014
Organizer, Texas A&M Star Parties	2011 - 2013
Lab instructor, Astronomy 111: Overview of Modern Astronomy	Fall 2011
Teaching Assistant, Astronomy 314: Survey of Astronomy	Fall 2010

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

• Science Verification Coordinator for Milky Way Survey • Earned **DESI external participant status** since 2019

Extensive observing experience:

- Optical imaging: CTIO, Blanco(4m)/DECam (DES/DECaLS, 80+ nights); KPNO, Mayall(4m)/Mosaic3 (MzLS, 4 nights)
- Optical spectroscopy: LCO, Magellan(6.5m)/IMACS (50+ 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, and 20+ nights on Magellan

Experience with spectroscopic analysis and reduction:

- High resolution spectroscopy: HET(9.4m)/HRS, VLT(8.2m)/UVES, Magellan(6.5m)/MIKE
- Multi-object spectroscopy: Magellan(6.5m)/IMACS, VLT(8.2m)/GIRAFFE, AAT(4m)/AAOmega

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

Designed a web-based Exposure Time Calculator for GMACS (an optical multi-object spectrograph) for the Giant Magellan Telescope:

• http://instrumentation.tamu.edu/cgi-bin/gmacs.cgi

Selected Recent Conferences, Seminars, Colloquia

- 36. Invited Seminar Talk at N3AS (Link to Talk), May 11
- 35. Colloquium, the University of British Columbia, Vancouver, Canada, Apr 19, 2021
- 34. Invited Seminar Talk, the University of Kentucky, Lexington, KY, Feb 3, 2021
- 33. Invited Seminar Talk, UC Davis, Davis, CA, Jan 28, 2021
- 32. Invited Seminar Talk, University College London, London, England, Nov 2 2020
- 31. Invited Seminar Talk, McGill Space Institute, Montreal, Canada, Oct 13 2020
- 30. iPoster, 235th AAS Meeting, Honolulu, Hawaii, Jan 2020
- 29. Colloquium, UC Santa Cruz, Santa Cruz, CA, Nov 2019
- 28. Colloquium, University of Toronto, Toronto, Canada, Oct 2019
- 27. Invited Talk, LSST Dark Matter Workshop, University of Chicago, Chicago, IL, Aug 2019
- 26. Invited Talk, IAU Symposium 353 "Galactic Dynamics in the Era of Large Surveys", Shanghai, China, Jul 2019
- 25. Invited Talk, Conference "Science in our own Backyard: Exploring the Galaxy and the Local Group with WFIRST", Caltech, Pasadena, CA, Jun 2019
- 24. Invited Talk, KITP Workshop "In the Balance: Stasis and Disequilibrium in the Milky Way", Santa Barbara, CA, Apr 2019
- 23. Invited Seminar Talk, Carnegie Mellon University, PA, Mar 2019
- 22. Contributed Talk, Conference "Massively multiplexed spectroscopy with MSE: Science, Project and Vision", Tucson, AZ, Feb 2019
- 21. Invited Seminar Talk, University of Notre Dame, Notre Dame, IN, Oct 2018
- 20. Invited Participant, Kavli/AURA Salon Workshop "Petabytes to Science", Chicago, IL, Jul 2018
- 19. Participant, Aspen Workshop "Dynamics of the Milky Way System in the Era of Gaia", Aspen, CO, Sep 2018
- 18. Organizer, KICP Workshop, Near-Field Cosmology with DES's DR1 and Beyond, Chicago, IL, Jun 2018

17. Invited Long-term Participant, KITP Workshop, The Small-Scale Structure of Cold(?) Dark Matter, Santa Babara, CA, May 2018

- 16. Invited Plenary Talk, SnowPAC, Big Questions, Big Surveys, Big Data: Astronomy & Cosmology in the 2020s, Snowbird, UT, May 2018
- 15. Colloquium, CSIRO Astronomy and Space Science, Sydney, Australia, Nov 2017
- 14. Colloquium, Australia Astronomical Observatory, Sydney, Australia, Nov 2017
- 13. Invited Seminar Talk, University of Pittsburgh, Pittsburgh, PA, Oct 2017
- 12. Invited Webinar Talk, LIneA, Brazil, Sep 2017
- 11. Contributed Talk, Conference "Shedding Light on the Dark Universe with Extremely Large Telescopes", Lanzhou, China, Aug 2017
- 10. Invited Seminar Talk, Texas A&M University, College Station, TX, May 2017
- 9. Invited Talk, Future Cosmic Surveys Workshop, Chicago, IL, Sep 2016
- 8. Invited Participant, Maximizing Science in the Era of LSST: A Community-based Study of Needed US OIR Capabilities, Tuscon, May 2016
- 7. Invited Talk, 227th Meeting of the American Astronomical Society, Kissimmee, FL, Jan 2016
- 6. Invited Talk, 2015 Meeting of the APS Division of Particles and Fields (DPF 2015), Ann Arbor, MI, Aug 2015
- 5. Contributed Talk, GMT Community Science Meeting: reSovling Galaxies in the Era of Extremely Large Telescopes, Pacific Grove, CA, Oct 2015
- 4. Contributed Talk, Thirty Meter Telescope Science Forum, Washington D.C., May 2015
- 3. Contributed Talk, DECam Community Science Workshop, Tuscon, AZ, March 2015
- 2. Poster, SPIE Astronomical Telescopes + Instrumentation, Montréal, Quebec, Canada, Jun 2014
- 1. Poster, SPIE Astronomical Telescopes + Instrumentation, Amsterdam, Netherlands, Jul 2012

References

Joshua D. Simon

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Jennifer L. Marshall

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College Station, TX 77843 USA

Selected Refereed Publications

Summary: 200+ refereed publications, including 9 1st author, 14 2nd/3rd author, 50 with significant contributions. h-index: 56

For complete publication list, please refer to:

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

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

- 51. 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
- 50. 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
- 49. Jenkins, S., Li, T. S., Pace, A. B., et al. "VLT Spectroscopy of Ultra-Faint Dwarf Galaxies. 1. BoÃűtes I, Leo IV, Leo V", submitted, arXiv:2101.00013
- 48. 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.
- 47. 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
- 46. 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
- 45. **Li, T. S.**, Koposov, S. E., Erkal, D., et al. "Broken into Pieces: ATLAS and Aliqa Uma as One Single Stream", submitted, arXiv:2006.10763
- 44. 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, 10L
- 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 (*S*⁵): 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 × 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

- 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

- 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. Organizer and Chapter Author, Petabytes to Science, 2019, arXiv:1905.05116
- 3. Author for 7 Astro2020 Science White Papers (including one leading author).
- 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