

Shelley Adams Wright

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Biographical Information

Education

Ph.D. Astrophysics, University of California Los Angeles, 2008
Advisor: James Larkin
Dissertation: “A Spatially Resolved Kinematic Study of High-Redshift Star Forming Galaxies: Development and Use of Adaptive Optics Instrumentation”

B.S. Physics, University of California Santa Cruz, 2001
Advisors: Remington P.S. Stone & Frank Drake
Thesis: “An Optical SETI detector for Lick Observatory”

Employment

Assistant Professor (tenure track) January 2015 – present
Physics Department University of California, San Diego
Focusing on extragalactic research and astronomical near-infrared and optical instrumentation.

Assistant Professor (tenure track) January 2012 - June 2015
Department of Astronomy & Astrophysics University of Toronto
Dunlap Institute for Astronomy & Astrophysics
Focusing on extragalactic research and astronomical near-infrared and optical instrumentation.

UC Presidential Postdoctoral Fellow December 2011
Chung-Pei Ma University of California, Berkeley
Research focused on dynamics and metallicity evolution studies of high redshift star forming galaxies ($z \geq 1$) using integral field spectroscopy and imaging with adaptive optics.

Hubble Postdoctoral Fellow September 2009 - November 2011
Chung-Pei Ma University of California, Berkeley
Research includes dynamics and metallicity evolution studies of high redshift star forming galaxies ($z \geq 1$) using integral field spectroscopy and imaging with adaptive optics.

Postdoctoral Fellow August 2008 - September 2009
Elizabeth Barton University of California, Irvine
Worked on developing science cases, creation of the data simulator, and astrometric cases for the first light instrument, IRIS (Infrared Imaging Spectrograph), for the future Thirty Meter Telescope (TMT).

Research Assistant 2004–2008
James Larkin University of California, Los Angeles
Research included an adaptive optics treasury study of field galaxies at infrared wavelengths (at $z=0.3-2.5$), OSIRIS integral field spectroscopy of high redshift star forming galaxies using the Keck Observatory laser guide star adaptive optics system, and participation in development of OSIRIS and SHARC near-infrared instruments at the UCLA Infrared Lab.

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Employment (continued)

Research Assistant Andrea Ghez Used the adaptive optics system at Keck Observatory to study line-of-sight extinction towards the Galactic Center central cluster, and to detect infrared emission surrounding the supermassive black hole.	2002–2003 University of California, Los Angeles
Support Astronomer Romano Corradi Support astronomer for Jacobus Kapteyn Telescope. Research includes planetary nebulae emission line fluxes and a massive star survey in Local Group galaxies with the INT Wide Field Camera.	2001–2002 Isaac Newton Group, La Palma, Spain
Staff Research Assistant Remington Stone Construction and commissioning of an optical SETI instrument, as well as planning and executing observations.	1999–2001 Lick Observatory

Honors and Awards

Hellman Fellowship, University of California, San Diego, 2016
Presidential Postdoctoral Fellowship, University of California, 2011
Hubble Postdoctoral Fellowship, Space Telescope Science Institute, 2009 - 2011
Dissertation Year Fellowship, University of California, Los Angeles, 2007 - 2008
Outstanding Teaching Award, University of California, Los Angeles, 2005
Outstanding Teaching Award, University of California, Los Angeles, 2003
Dean's Award, Natural Science Division, University of California, Santa Cruz, 2001
Chancellor's Award, University of California, Santa Cruz, 2001
Performance Award, Lick Observatory, 2001

Scholarly and Professional Work

Refereed Publications

† = First author paper

★ = Supervised student paper

39. “The Rapid Transient Surveyor”, Baranec, Christoph; Lu, Jessica R.; Wright, Shelley A.; Tonry, John; Tully, R. Brent; Szapudi, Istvn; Takamiya, Marianne; Hunter, Lisa; Riddle, Reed; Chen, Shaojie; Chun, Mark, 2016, SPIE 9909, Adaptive Optics Systems V, 9909-15
38. ★“Providing Stringent Star Formation Rate Limits of $z \sim 2$ QSO Host Galaxies at High Angular Resolution”, Vayner, Andrey; Wright, Shelley A.; Do, Tuan; Larkin, James E.; Armus, Lee; Gallagher, S. C., 2016, ApJ, 821, 64
37. “Following Black Hole Scaling Relations through Gas-rich Mergers”, Medling, Anne M.; U, Vivian; Max, Claire E.; Sanders, David B.; Armus, Lee; Holden, Bradford; Mieda, Etsuko; **Wright, Shelley A.**; Larkin, James E., 2015, ApJ, 803, 61
36. ★“Providing stringent star formation rate limits of $z \sim 2$ QSO host galaxies at high angular resolution”, Vayner, Andrey; **Wright, Shelley A.**; Do, Tuan; Larkin, James E.; Armus, Lee; Gallagher, Sarah C., ApJ submitted, arXiv:1410.4229

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Refereed Publications (continued)

35. “Overview of the SDSS-IV MaNGA Survey: Mapping nearby Galaxies at Apache Point Observatory”, Bundy, Kevin; Bershady, Matthew A.; Law, David R.; + MaNGA team, **Wright, Shelley**; Xiao, Ting; Zhang, Kai, 2015, ApJ, 798, 7
34. “The infrared imaging spectrograph (IRIS) for TMT: instrument overview”, Moore, Anna; Larkin, James, **Wright, Shelley**; + IRIS team, 2014, SPIE, 9147, 914724
33. † “The Infrared Imaging Spectrograph (IRIS) for TMT: Overview of Innovative Science Programs”, **Wright, Shelley**, + IRIS science team, 2014, SPIE, 9147, 91479S
32. † “A Near Infrared SETI Experiment: Instrument Overview”, **Wright, Shelley A.**; Werthimer, Dan; Treffers, Richard R.; Maire, Jrme; Marcy, Geoffrey W.; Stone, Remington P. S.; Drake, Frank; Meyer, Elliot; Dorval, Patrick; Siemion, Andrew, 2014, SPIE, 9147, 91470J
31. ★ “The infrared imaging spectrograph (IRIS) for TMT: reflective ruled diffraction grating performance testing and discussion, Meyer, Elliot; Chen, Shaojie; **Wright, Shelley A.**; Moore, Anna M.; Larkin, James E.; Simard, Luc; Marie, Jerome; Mieda, Etsuko; Gordon, Jacob, 2014, SPIE, 9147, 91479C
30. “The infrared imaging spectrograph (IRIS) for TMT: volume phase holographic grating performance testing and discussion”, Chen, Shaojie; Meyer, Elliot; **Wright, Shelley A.**; Moore, Anna M.; Larkin, James E.; Maire, Jerome; Mieda, Etsuko; Simard, Luc, 2014, SPIE, 9147, 91478X
29. “A near-infrared SETI experiment: probability distribution of false coincidences”, Maire, Jrme; **Wright, Shelley A.**; Werthimer, Dan; Treffers, Richard R.; Marcy, Geoffrey W.; Stone, Remington P. S.; Drake, Frank; Siemion, Andrew, 2014, SPIE, 9147, 91474K
28. “Optical turbulence profiling with SLODAR in the Canadian High Arctic”, Mieda, Etsuko; Maire, Jrme; Graham, James R.; **Wright, Shelley A.**; Moon, Dae-Sik, 2014, SPIE, 9145, 91453J
27. ★ “A SLODAR instrument for characterizing an Arctic site: overview of the experimental method, design, and performance, Mieda, Etsuko; Maire, Jerome; +; **Wright, Shelley**, 2014, SPIE, 9145, 91453K
26. “Detection of a substructure with adaptive optics integral field spectroscopy of the gravitational lens B1422+231”, Nierenberg, A., Treu, T., **Wright, S.A.**, Fassnacht, C., Auger, 2014 MNRAS, 442, 2434
25. ★ “Efficiency Measurements and Installation of a New Grating for the OSIRIS Spectrograph at Keck Observatory”, Mieda, Etsuko; **Wright, Shelley A.**; Larkin, James E.; Graham, James R.; Adkins, Sean M.; Lyke, James E.; Campbell, Randy D.; Maire, Jerome; Do, Tuan; Gordon, Jacob, 2014, PASP, 126, 250
24. “Prospects for Measuring Supermassive Black Hole Masses with Future Extremely Large Telescopes”, Do, Tuan; **Wright, Shelley A.**; Barth, Aaron J.; Barton, Elizabeth J.; Simard, Luc; Larkin, James E.; Moore, Anna; Wang, Lianqi; Ellerbroek, Brent, 2014, AJ, 147, 93
23. “The Circumnuclear Star Formation Environment of NGC 6946: Br Gamma and H2 Results from Keck Integral Field Spectroscopy”, Tsai, Chao-Wei; Turner, Jean L.; Beck, Sara C.; Meier, David S.; **Wright, Shelley A.**, 2013, ApJ, 776, 2, 70
22. “Near-infrared imaging spectroscopy of the inner few arcseconds of NGC 4151 with OSIRIS at Keck”, Iserlohe, C.; Krabbe, A.; Larkin, J. E.; Barczys, M.; McElwain, M. W.; Quirrenbach, A.; Weiss, J.; **Wright, S. A.**, 2013, A&A, 556, 136, 27
21. “Stellar Populations in the Central 0.5 pc of the Galaxy. I. A New Method for Constructing Luminosity Functions and Surface-density Profiles, Do T., Lu J., Ghez A.M., Morris M.R., Yelda S., Martinez G.D., **Wright S. A.**, Matthews, K., 2013, ApJ, 764, 29

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Refereed Publications (continued)

20. “Dynamical Measurements of Black Hole Masses in Four Brightest Cluster Galaxies at 100 Mpc”, McConnell, N., Ma C.P., Murphy J., Gebhardt K., Lauer L., Graham J., **Wright S. A.**, Richstone, D., 2012, ApJ, 756, 179
19. “Two ten-billion-solar-mass black holes at the centres of giant elliptical galaxies”, McConnell, Nicholas J.; Ma, Chung-Pei; Gebhardt, Karl; **Wright, Shelley A.**; Murphy, Jeremy D.; Lauer, Tod R.; Graham, James R.; Richstone, Douglas O., 2011, Nature, 480, 215
18. “Spatially-Resolved Spectroscopy of SDSS J0952+2552: a confirmed Dual AGN”, McGurk, R. C.; Max, C. E.; Rosario, D. J.; Shields, G. A.; Smith, K. L.; **Wright, S. A.**, ApJ, 2011, 738, 2
17. “The Black Hole Mass in Brightest Cluster Galaxy NGC 6086”, McConnell, Nicholas J.; Ma, Chung-Pei; Graham, James R.; Gebhardt, Karl; Lauer, Tod R.; **Wright, Shelley A.**; Richstone, Douglas O., 2010, ApJ, 728, 100
16. “Disks in the Arches cluster – survival in a starburst environment”, Stolte, Andrea; Morris, Mark; Ghez, Andrea; Do, Tuan; Lu, Jessica; **Wright, Shelley A.**; Ballard, Christopher; Mills, Elizabeth; Matthews, Keith, 2010, ApJ, 718, 810
15. “The Lick AGN Monitoring Project: The M BH- σ^* Relation for Reverberation-mapped Active Galaxies”, Woo, Jong-Hak; Treu, Tommaso; Barth, Aaron J.; **Wright, Shelley A.**; Walsh, Jonelle L.; Bentz, Misty C.; Martini, Paul; Bennert, Vardha N.; Canalizo, Gabriela; Filippenko, Alexei V.; Gates, Elinor; Greene, Jenny; Li, Weidong; Malkan, Matthew A.; Stern, Daniel; Minezaki, Takeo, 2010, ApJ, 716, 269
14. “Ultracool Field Brown Dwarf Candidates Selected at 4.5 μm ”, Eisenhardt, Peter R. M.; Griffith, Roger L.; Stern, Daniel; Wright, Edward L.; Ashby, Matthew L. N.; Brodwin, Mark; Brown, Michael J. I.; Bussmann, R. S.; Dey, Arjun; Ghez, A. M.; Glikman, Eilat; Gonzalez, Anthony H.; Kirkpatrick, J. Davy; Konopacky, Quinn; Mainzer, Amy; Vollbach, David; **Wright, Shelley A.**, 2010, AJ, 139, 6, 2455
13. † “The Presence of Weak Active Galactic Nuclei in High Redshift Star-forming Galaxies”, **Wright, Shelley A.**; Larkin, James E.; Graham, James R.; Ma, Chung-Pei, 2010, ApJ, 711, 1291
12. † “Dynamics of Galactic Disks and Mergers at $z \sim 1.6$: Spatially Resolved Spectroscopy with Keck Laser Guide Star Adaptive Optics”, **Wright, Shelley A.**; Larkin, James E.; Law, David R.; Steidel, Charles C.; Shapley, Alice E.; Erb, Dawn K., 2009, ApJ, 699, 421
11. “The Kiloparsec-scale Kinematics of High-redshift Star-forming Galaxies”, Law, David R.; Steidel, Charles C.; Erb, Dawn K.; Larkin, James E.; Pettini, Max; Shapley, Alice E., **Wright, Shelley A.**, 2009, ApJ, 697, 2057
10. “Triggered or Self-Regulated Star Formation within Intermediate Redshift Luminous Infrared Galaxies (I). Morphologies and Spatially Resolved Spectral Energy Distributions”, Melbourne, J., Ammons, M., **Wright, S. A.**, Metevier, A., Steinbring, E., Max, C., Koo, D. C., Larkin, J. E., Barczys, M., 2008, ApJ, 135, 1207
9. “Super-resolving distant galaxies with gravitational telescopes: Keck-LGSAO and Hubble imaging of the lens system SDSSJ0737+3216”, Marshall, P. J., Treu, T., Melbourne, J., Gavazzi, R., Bundy, K., Ammons, S. M., Bolton, A. S., Burles, S., Larkin, J. E., Le Mignant, D., Koo, D. C., Koopmans, L. V. E., Max, C. E., Moustakas, L. A., Steinbring, E., **Wright, S. A.**, 2008, ApJ, 671, 1196
8. † “Integral Field Spectroscopy of a Candidate Disk Galaxy at $z \sim 1.5$ using Laser Guide Star Adaptive Optics”, **Wright, S. A.**, Larkin, J. E., Barczys, M., Erb, D. K., Iserlohe, C., Krabbe, A., Law, D. R., McElwain, M. W., Quirrenbach, A., Steidel, C. C., Weiss, J., 2007, ApJ, 658, 78
7. “First High-Contrast Science with an Integral Field Spectrograph: The Substellar Companion to GQ Lupi”, McElwain, M. W., Metchev, S. A., Larkin, J. E., Barczys, M., Iserlohe, C., Krabbe, A., Quirrenbach, A., Weiss, J., **Wright, S. A.**, 2007, ApJ, 656, 505

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Refereed Publications (continued)

6. “OSIRIS: A diffraction limited integral field spectrograph for Keck”
Larkin, J.; Barczys, M.; Krabbe, A.; Adkins, S.; Aliado, T.; Amico, P.; Brims, G.; Campbell, R.; Canfield, J.; Gasaway, T.; Honey, A.; Iserlohe, C.; Johnson, C.; Kress, E.; Lafreniere, D.; Magnone, K.; Magnone, N.; McElwain, M.; Moon, J.; Quirrenbach, A.; Skulason, G.; Song, I.; Spencer, M.; Weiss, J.; **Wright, S.**, *New Astronomy Review*, 50, 362
5. “Diffraction-limited Imaging Spectroscopy of the Sagittarius A* Region Using OSIRIS, a New Keck Instrument”, A. Krabbe, C. Iserlohe, J.E. Larkin, M. Barczys, M. McElwain, J. Weiss, **S.A. Wright**, and A. Quirrenbach, 2006, *ApJ*, 642, L145-148
4. “Lick Observatory Optical SETI: Targeted Search and New Directions”, R.P.S. Stone, **S.A. Wright**, F. Drake, M. Munoz, R. Treffers, D. Werthimer, 2005, *Astrobiology*, 5, 5, 604-611
3. † “Absolute Spectrophotometry of Northern Compact Planetary Nebulae”, **Wright S.A.**, Corradi R.L.M., Perinotto M., 2005, *A&A*, 436, 967
2. “Merging Galaxies in GOODS-S: First Extragalactic Results from Keck Laser Adaptive Optics”, Melbourne, J., **Wright, S. A.**, Barczys, M., Bouchez, A. H., Chin, J., van Dam, M. A., Hartman, S., Johansson, E., Koo, D. C., Lafon, R.; and 8 coauthors, 2005, *ApJ*, 625, L27
1. “Variable Infrared Emission from the Supermassive Black Hole at the Center of the Milky Way”, Ghez A.M, **Wright S.A.**, Matthews K., Thompson D., Le Mignant D., Tanner A., Hornstein S.D., Morris M., Becklin E.E., Soifer B.T., 2004, *ApJL*, 601, L159

Non-Referred Publications

34. ★“QUART: Quasar hosts Unveiled by high Angular Resolution Techniques”, Vayner, Andrey; **Wright, Shelley**; Murray, Norman W.; Armus, Lee; Larkin, James E., 2016, American Astronomical Society, AAS Meeting 228, 400.02
33. ★“A near-Infrared SETI Experiment: Alignment and Astrometric precision”, Duenas, Andres; Maire, Jerome; **Wright, Shelley**; Drake, Frank D.; Marcy, Geoffrey W.; Siemion, Andrew; Stone, Remington P. S.; Tallis, Melisa; Treffers, Richard R.; Werthimer, Dan, 2016, American Astronomical Society, AAS Meeting 228, 120.04
32. ★“A near-infrared SETI experiment: A multi-time resolution data analysis”, Tallis, Melisa; Maire, Jerome; **Wright, Shelley**; Drake, Frank D.; Duenas, Andres; Marcy, Geoffrey W.; Stone, Remington P. S.; Treffers, Richard R.; Werthimer, Dan, 2016, American Astronomical Society, AAS Meeting 228, 120.03
31. “Thirty Meter Telescope Detailed Science Case: 2015”, Skidmore, Warren; TMT International Science Development Teams; Science Advisory Committee, TMT, 2015, *Research in Astronomy and Astrophysics*, Volume 15, Issue 12, article id. 1945
30. “World-wide deployment of Robo-AO visible-light robotic laser adaptive optics systems”, Baranec, Christoph; Riddle, Reed; Law, Nicholas Michael; Lu, Jessica R.; Tonry, John; Tully, R. Brent; **Wright, Shelley**; Kulkarni, Shrinivas; Sevenson, Scott; Choi, Philip; Ramaprakash, A.; Chun, Mark; Connelley, Mike; Tokunaga, Alan; Hall, Donald, 2015, IAU General Assembly, Meeting 29, id.2255576
29. ★ “Chemo-Kinematic Survey of $z \sim 1$ Star Forming Galaxies using Keck OSIRIS LGS-AO”, Mieda, Etsuko; **Wright, Shelley A.**; Larkin, James E.; Armus, Lee; Juneau, Stephanie, 2015, IAU Symposium, 309, 362
28. “Prospects for Measuring Supermassive Black Hole Masses with TMT”, Do, Tuan; **Wright, Shelley A.**; Barth, Aaron J.; Barton, Elizabeth J.; Simard, Luc; Larkin, James E.; Moore, Anna M.; Wang, Lianqi; Ellerbroek, Brent, 2014, Thirty Meter Telescope Science Forum, 40

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Non-Refereed Publications (continued)

27. “Resolved spectroscopy of adolescent and infant galaxies ($1 < z < 10$)”, **Wright, Shelley**; IRIS Science Team, 2014, Thirty Meter Telescope Science Forum, 45
26. “SETI Programs at the University of California, Berkeley”, Korpela, E. J.; Siemion, A. V. P.; Werthimer, D.; Korff, J. V.; Gautham, A.; Cobb, J.; Lebofsky, M.; Dexter, M.; MacMahon, D.; **Wright, S.**, Search for Life Beyond the Solar System. Exoplanets, Biosignatures & Instruments, 5
25. “Prospects for Measuring Supermassive Black Hole Masses with Future Extremely Large Telescopes”, Do T., **Wright S. A.**, Barton E.J., Barth A.J., Simard L., Larkin J.E., Moore, A., 2013, American Astronomical Society, 221, 143
24. “Resolving Host Galaxies of $z=2$ Quasars Using Adaptive Optics and Integral Field Spectroscopy”, Vayner A., **Wright S. A.**, Do T., Larkin J.E., 2013, American Astronomical Society, 221, 339
23. “Measuring the stellar luminosity function and spatial density profile of the inner 0.5 pc of the Milky Way nuclear star cluster”, Do T., Ghez A.M., Lu J., Morris M.R., Yelda S., Martinez G.D., Peter, A., **Wright S.A.**, Bullock, J., Kaplinghat, M. Matthews, K., 2012, Journal of Physics: Conference Series, 372, 1
22. † “A new more efficient grating for the Keck integral field spectrograph OSIRIS”, **Wright, S.A.**, Mieda E., Larkin J., Adkins, S., Graham J, Lyke J., Campbell R., Bach B., Bach K., Bach E., 2012, SPIE, Astronomical Telescopes & Instrumentation, 8447
21. “Testing Stellar Cusp Formation Theories with Observations of the Milky Way Nuclear Star Cluster”, Do, T.; Ghez, A. M.; Morris, M. R.; Lu, J. R.; Matthews, K.; Yelda, S.; **Wright, S. A.**; Larkin, J., Astronomical Society of the Pacific Conference Series, 439, 200
20. † “The infrared imaging spectrograph (IRIS) for TMT: sensitivities and simulations” **Wright, Shelley A.**; Barton, Elizabeth J.; Larkin, James E.; Moore, Anna M.; Crampton, David; Simard, Luc, SPIE, 7735, 2010
19. “The Infrared Imaging Spectrograph (IRIS) for TMT: the science case” Barton, Elizabeth J.; Larkin, James E.; Moore, Anna M.; **Wright, Shelley A.**; Crampton, David; Simard, Luc; Macintosh, Bruce; Ct, Patrick; Barth, Aaron J.; Ghez, Andrea M.; Lu, Jessica R.; Davidge, T. J.; Law, David R., SPIE, 7735, 2010
18. “The infrared imaging spectrograph (IRIS) for TMT: spectrograph design” Moore, Anna M.; Bauman, Brian J.; Barton, Elizabeth J.; Crampton, David; Delacroix, Alex; Larkin, James E.; Simard, Luc; Suzuki, Ryuji; **Wright, Shelley A.**, SPIE, 7735, 2010
17. “Tracking Evolutionary Processes with Large Samples of Galaxy Pairs” Barton, E. J.; Trinh, C. Q.; Bullock, J. S.; **Wright, S. A.**, Galaxy Wars: Stellar Populations and Star Formation in Interacting Galaxies ASP Conference Series Vol. 423, 2010
16. † “Disentangling Weak AGN and Metallicity Gradients in High Redshift Star Forming Galaxies” **Wright, Shelley A.**; Graham, J.; Larkin, J.; Ma, C., American Astronomical Society, AAS Meeting 215, 435.11, 2010
15. “IRIS Design and Capabilities: A Diffraction-Limited Infrared Imaging Spectrograph for the Thirty Meter Telescope” Larkin, James E.; Moore, A. F.; Barton, E. J.; **Wright, S. A.**; IRIS Team, American Astronomical Society, AAS Meeting 215, 441.24, 2010
14. “Science with IRIS, the InfraRed Imaging Spectrograph on the Thirty Meter Telescope” Barton, Elizabeth Jean; Larkin, J. E.; Moore, A. M.; **Wright, S. A.**; IRIS Science Team, American Astronomical Society, AAS Meeting 215, 441.25, 2010

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Non-Refereed Publications (continued)

13. “Testing stellar cusp formation theories with observations of the Milky Way nuclear star cluster”
Do, Tuan; Ghez, Andrea M.; Morris, Mark R.; Lu, Jessica R.; Matthews, Keith; Yelda, Sylvania;
Wright, Shelley A.; Larkin, James, Proceedings of the Galactic Center Workshop, Shanghai, 2009
12. † “Resolved Imaging Spectroscopy of Galactic Disks, Mergers, and Weak Active Galactic Nuclei at $z \sim 1.6$ ”
Wright, S.A., Larkin J.E., American Astronomical Society, AAS Meeting 213, 424.10; Bulletin of the American Astronomical Society, Vol. 41, p.247, 2009
11. † “Diffraction-Limited Integral Field Spectroscopy of High Redshift Star Forming Galaxies”
S.A. Wright & Larkin, J. E., ASP, At the Edge of the Universe, Sintra, Portugal, 2007
10. “Diffraction Limited Imaging Spectroscopy of a Sgr A* Flare with OSIRIS”
Krabbe, A.; Iserlohe, C.; Larkin, J. E.; Barczys, M.; McElwain, M.; Weiss, J.; **Wright, S. A.**;
Quirrenbach, A., 2006, Journal of Physics Conference Series, 54, 406
9. “Spectroscopic Observations of the Galactic Center with OSIRIS”
Do, Tuan; Ghez, A.; Lu, J.; Matthews, K.; Morris, M.; Stolte, A.; Becklin, E.; Larkin, J.; **Wright, S.**, 2006, American Astronomical Society, 209
8. “CATS: Center for Adaptive Optics Treasury Survey of Distant Galaxies Supernovae, and Active Galactic Nuclei”
Koo, D. C.; Ammons, S. M.; Barczys, M.; Larkin, J. E.; Max, C. E.; Melbourne, J.; Metevier, A. J.;
Steinbring, E.; **Wright, S. A.**, 2006, IAU Symposium, 235
7. “Keck II, LGSAO, OSIRIS observations of V723 Cas, Nova Cas 1995”
Lyke, J. E.; Campbell, R. D.; Mader, J. A.; Chaffee, F. H.; Larkin, J. E.; Barczys, M.; Weiss, J. L.;
Wright, S. A.; McElwain, M. W., American Astronomical Society, 2005, 207
6. † “Probing Galaxy Evolution with OSIRIS”
S.A. Wright & Larkin, J. E., Nearly Normal Galaxies Conference, 2005, Santa Cruz
5. † “Measured Extinction Towards the Inner Light-Year of the Galactic Center”
S.A. Wright, A. M. Ghez, S.D. Hornstein, J.R. Lu, M. Morris, E.E. Becklin, K. Matthews, D.
Thompson, B. T. Soifer, KITP Conference: The Paradoxes of Massive Black Holes: A Case Study
in the Milky, 2005, Santa Barbara
4. “Lick Observatory Optical SETI Program: Phase I Final Report”
R.P.S. Stone, **S.A. Wright**, F. Drake, M. Muoz, R. Treffers and D. Werthimer, Bioastronomy:
Habitable Worlds, July 2004, Reykjavik, Iceland
3. † “Optical SETI at Lick Observatory: A Status Report”
S.A. Wright, F. Drake, M. Munoz, R.P.S. Stone, R. Treffers, D. Werthimer, R. Evans, T. Isotalo,
S. Vance, IAU Symp. 213, 2004, p. 415
2. † “The Local Group Census: IC-10”
S.A. Wright, R. Greimel, D.J. Lennon, R.L.M. Corradi, N.A. Walton, IAU Symp. 212, PASP,
2003, p. 581
1. † “An Improved Optical SETI Detector”
S.A. Wright, F. Drake, R.P.S. Stone, R. Treffers, D. Werthimer, SPIE 4273-30, 2000

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Invited Talks

- SPIE Astronomical Instrumentation, Edinburgh, Scotland, June 26, 2016
"The infrared imaging spectrograph (IRIS) for TMT: latest science cases"
- Breakthrough Initiatives Conference, Stanford University, April 15, 2016
"Advancing SETI Search Methods at Near-Infrared Wavelengths"
- E-ELT HARMONI Science Conference, Oxford University, June 30, 2015
"IRIS for the Thirty Meter Telescope"
- TMT Forum, Washington DC, June 23, 2015
"Resolving Spectroscopy and Imaging of Young Galaxies in the Early Universe"
- UCLA, Infrared Laboratory 25th Anniversary, June 19, 2015
"IRIS (InfraRed Imaging Spectrograph)"
- UCLA, Astronomy Colloquium, February 18, 2015
"Two for one: distant young galaxies and near infrared SETI"
- SETI Institute, February 10, 2015
"Extending the search for ETI communication to near-infrared wavelengths"
- Michigan State University, Physics Colloquium, October 8, 2014
"Spatially Resolved Spectroscopy of Galaxies in the Early Universe Using Adaptive Optics"
- Keck Ground Layer Adaptive Optics Workshop, September 14, 2014
"Multi-object integral field spectrographs: high-redshift science cases"
- Dunlap Astronomical Instrumentation Summer School, August 15, 2015
"Design Considerations for topical and infrared instrumentation"
- UC San Diego, Astrophysics Seminar, January 29, 2014
"Spatially Resolving Galaxies in the Early Universe: The Exciting Promise of Adaptive Optics Instrumentation"
- Dunlap Symposium, May 3, 2013
"Optical and Infrared Instrumentation in Canada"
- University of Toronto, Education Discussion Group, June 10, 2013
"Gender Diversity in Astronomy"
- McMaster University, Physics Colloquium, February 27, 2013
"Studying Galaxies in the Early Universe with Innovative Astronomical Instrumentation"
- Herzberg Institute of Astronomy, Colloquium, November 7, 2012
"Studying Galaxies in the Early Universe with Innovative Astronomical Instrumentation"
- University of Hawaii, Institute for Astronomy, Colloquium, September 27, 2012
"Studying Galaxies in the Early Universe with Innovative Astronomical Instrumentation"
- Gemini-N Adaptive Optics Workshop, June 19, 2012
"Adaptive Optics Observations of High-Redshift Galaxies"
- Dunlap Institute, University of Toronto, Astronomical Instrumentation Discussion, May 14, 2012
"Exploring the Capabilities of IRIS: A Diffraction-Limit instrument for TMT"
- University of Western Ontario, Physics & Astronomy Colloquium, April 26, 2012
"Discovering Galactic Disks, Mergers, Weak AGN in High-Redshift Star Forming Galaxies"
- Thirty Meter Telescope Science Advisory Meeting, Pasadena, April 5, 2012
"IRIS Science & Requirements for High Contrast and NGS-AO"
- University of Toronto, G2000 Seminar, March 21, 2012
"Extending Optical SETI into the Near-Infrared"

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Invited Talks (continued)

- UC San Diego, Astrophysics Seminar, June 1, 2011
“Discovering Galactic Disks, Mergers, and Weak AGN in High-Redshift Star Forming Galaxies”
- UC Santa Barbara , Astrophysics Seminar, April 13, 2011
“Discovering Galactic Disks, Mergers, and Weak AGN in High-Redshift Star Forming Galaxies”
- Thirty Meter Telescope Science & Instrumentation Meeting, Victoria, Canada, March 21, 2011
“Resolved Studies of Galaxies in the Early Universe with IRIS”
- UC Berkeley , Colloquium, February 22, 2011
“Observing Galaxy Evolution : The Exciting Promise of Adaptive Optics Instrumentation”
- University of Toronto , Colloquium, February 3, 2011
“Observing Galaxy Evolution: The Promise of Adaptive Optics Instrumentation”
- UC Berkeley, Adaptive Optics Seminar, September 21, 2010
“Exploring the capabilities of IRIS: An AO-fed IFU and imager for the Thirty Meter Telescope”
- Princeton, Astrophysics Wunch Seminar, May 26, 2010
“High-Spatial Resolution Observations of $z\sim 1.5$ Star Forming Galaxies: Discovering Galactic Disks, Mergers, and Weak AGN ”
- Ringberg, Germany, Galaxies in the Distant Universe, May 17, 2010
“Prospects for Resolved Studies at High-redshift with Extremely Large Telescopes ”
- University of Washington, Astronomy Colloquium, May 6, 2010
“High-Spatial Resolution Observations of $z\sim 1.5$ Star Forming Galaxies: Discovering Galactic Disks, Mergers, and Weak AGN”
- UC Davis, Astronomy Seminar, April 29, 2010
“Spatially Resolved Spectroscopy and Adaptive Optics: A New Window into Galaxy Dynamics and AGN in the Young Universe”
- UC Berkeley, Astronomy Colloquium, January 28, 2010
“High-Spatial Resolution Observations of $z\sim 1-2$ Star Forming Galaxies: Discovering Galactic Disks, Mergers, and Weak AGN”
- UC Santa Cruz, FLASH Seminar, January 22, 2010
“Dynamics of High Redshift $z\sim 1-2$ Galaxies: Unraveling Galactic Disks, Mergers, and Weak AGN”
- UC Irvine, Astrophysics Seminar, December 2009
“Dynamics of High Redshift Galaxies: Unraveling Galactic Disks, Mergers, and Weak AGN”
- Caltech, Astronomy Tea Talk, February 2009
“Spatially Resolved Spectroscopy of Galactic Disks, Mergers, and Weak AGN in the Early Universe”
- UC Irvine, Astrophysics Seminar, December 2008
“Dynamics of High Redshift Star Forming Galaxies: Unraveling Galactic Disk Formation”
- Center for Adaptive Optics Fall Retreat, Lake Arrowhead, November 2008
“How Integral Field Spectrographs Work?”
- Ringberg, Germany, Astronomy with Laser Guide Star Adaptive Optics, November 2007
“OSIRIS-LGSAO: Kinematics of $z\sim 1.5$ Star Forming Galaxies”

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Teaching

Instructor, UC San Diego, Physics 164/238, Observational Astrophysics, Winter 2016
Instructor, UC San Diego, Physics 13, Life in the Universe, Fall 2015
Instructor, UC San Diego, Physics 164/238, Observational Astrophysics, Spring 2015
Instructor, University of Toronto, Astronomy 325, Practical Astronomy, Fall 2014
Instructor, University of Toronto, Astronomy 326, Practical Astronomy, Spring 2014
Instructor, University of Toronto, Astronomy 325/6, Practical Astronomy, Fall 2012 - Spring 2013
Teaching Assistant, UCLA, Astronomy 180, Astrophysical Laboratory, Fall 2005
Teaching Assistant, UCLA, Physics 495, Teaching Assistant Coordinator, Fall 2004
Teaching Assistant, UCLA, Astronomy 5, Life in the Universe, Spring 2003
Teaching Assistant, UCLA, Astronomy 3, Introduction to Astronomy, Winter 2003
Teaching Assistant, UCLA, Astronomy 3, Introduction to Astronomy, Fall 2002

Outreach Activities

American Astronomical Society Conference, Student program, San Diego, June 14, 2016
Reuben H. Fleet Center, Science Tech Program, San Diego, Invited Speaker, March 19, 2016
Conference for Undergraduate Women in Physics, San Diego, Invited Lab tour, January 16, 2016
Lick Observatory, Summer Visitor's Night, Guest Speaker, September 12, 2015
Pint of Science, Invited Speaker, San Diego, May 20, 2015
Birch Aquarium, Invited Speaker, SDSU Middle School Girls, May 14, 2015
UofT undergraduate (public) Lecture, Astronomy & Space Exploration Lecture Series, Invited, October 23, 2014
Dunlap Astronomical Instrumentation Summer School, Invited Instructor, August 11-15, 2015
UofT Stress Free (public) Lecture, Invited Lecturer, May 31, 2014
Women in astronomy lunch, organizer, March 10, 2014
Toronto Science Festival, Panelist for the public SETI panel, September 2013
Public talk, Monthly Astronomy Tour, Department of Astronomy & Astrophysics, University of Toronto, March 2013
Consultant, Dunlap Museum Studies Project, Dunlap Institute, University of Toronto, November 2012 - March 2013
Instructor, Astronomical Instrumentation Summer School, University of Toronto, August 2012
School Visit, San Lorenzo Ruiz Catholic Secondary School, May 2, 2012
Lead Instructor, Keck Adaptive Optics Workshop, UC Santa Cruz, September 2008
Consultant, Center for Adaptive Optics, Professional Development Workshop, Maui, March 2007
UC Los Angeles Planetarium, Quarterly public planetarium shows, 2002-2007
Lead Instructor, UCSC, Center for Adaptive Optics Mainland Short Course, June 2005
Facilitator, Center for Adaptive Optics, Professional Development Workshop, Maui, April 2005
Instructor, UCSC, Center for Adaptive Optics Mainland Short Course, June 2004
Author of Astronomy Lab Activities, UCLA, Astronomy 3, Introduction to Astronomy, 2002

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Outreach Activities (continued)

Lick Observatory, Mt. Hamilton, participation in summer visitors' program, 1999–2000

Advisor & Thesis Supervision

Graduate Students

- Andrey Vayner, Sep 2013 – present, Ph.D Candidate, UC San Diego
- Dan Marshall, May 2015 – May 2016, Supervisor, UC San Diego
- Etsuko Mieda, Feb 2012 – August 2015, Ph.D Thesis Supervisor, University of Toronto
Postdoc at NRC Herzberg (2015 – present)
- Heidi White, Feb 2013 – December 2014, Supervisor, University of Toronto
- Elliot Meyer, October 2012 – June 2015, Supervisor, University of Toronto
- Steven Janssens, May 2013 – September 2013, Project 1500 Supervisor, University of Toronto
- Stephen Ro, May 2012 – September 2012, Project 1500 Supervisor, University of Toronto

Undergraduate Students

- Tran Tsan, June 2016 – August 2016, STARS summer research program
- Meilsa Tallis, March 2016 – present, Undergraduate researcher
- Andres Duenas, July 2015 – present, Undergraduate researcher
- Patrick Dorval, May 2014 – August 2014, Summer Undergraduate Research Program, University of Toronto
- Patrick Dorval, September 2014 – May 2015, AY425 Research Advisor, University of Toronto
- Hope Boyce, May 2014 – August 2014, Summer Undergraduate Research Program, University of Toronto
- Flavia Santos Do Amaral, May 2014 – August 2014, Summer Undergraduate Research Program, University of Toronto
- Jacob Gordon, May 2013 – August 2013, Summer Undergraduate Research Program, University of Toronto
- Andrey Vayner, May 2012 – April 2012, AY425 and SURP, University of Toronto
- Miranda Jarvis, May 2012 – August 2012, Summer Undergraduate Research Program (SURP), University of Toronto

Postdoctoral Scholars

- Duy Cong Nyugen, Dunlap Postdoc, July 2013 - December 2014, Postdoctoral Supervisor
- Jerome Maire, Dunlap Fellow, Jan 2013 - December 2014, Postdoctoral Sponsor
- Tuan Do, Dunlap Fellow, August 2012 - December 2014, Postdoctoral Sponsor
- Brian Cherinka, Dunlap Postdoc, September 2012 - December 2014, Postdoctoral Supervisor

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Media and News (selected)

KPBS San Diego “Serving A Pint Of Science In San Diego”, May 20, 2015 (multiple news outlets)
<http://www.kpbs.org/news/2015/may/20/serving-pint-science-san-diego-tonight/>

UCSD News, “Search for extraterrestrial intelligence extends to new realms”, March 2015 (multiple news outlets)
<http://physics.ucsd.edu/news/newsstory.php?storyid=359>

TVO Kids *Now you know*, Episode “Are aliens real?”, Filmed April 9, 2014, Aired September 9, 2015

Space.com “New Tech Could Transform Search for Intelligent Alien Life, SETI Says”, Oct 2013
<http://www.space.com/23130-seti-technology-alien-life-search.html>

UofT News, “Building better telescopes, understanding diabetes and stroke”, quoted and picture use, June 6, 2013
http://news.utoronto.ca/building-better-telescopes-understanding-diabetes-and-stroke?utm_source=Bulletinutm_medium=emailutm_content=Research

University of Toronto Magazine, ”First Contact”, Interviewed about near-infrared SETI, quote and photo use, Autumn 2013
<http://www.magazine.utoronto.ca/leading-edge/first-contact-seti-dunlap-institute-shelley-wright-scott-anderson/>

UofT News, UofT launches Toronto Science Festival, quoted and picture use, July 9, 2013
<http://www.news.utoronto.ca/u-t-launches-toronto-science-festival>

TIME Magazine, Special Edition: New Space Discoveries, ”E.T., Are you calling us?”, interviewed for article about optical and near-infrared SETI, quoted and photo use, September 2012

Press release on Nature (McConnell et al. 2011) paper on most massive black holes, 2011, picked up by multiples news agencies, Berkeley news centre, 2011
<http://newscenter.berkeley.edu/2011/12/05/record-black-holes-bigger-than-our-solar-system/>

Press release about discovery Sgr A* in the near-infrared (ApJL, Ghez et al.), picked up by multiple news agencies worldwide, article by Science Daily, 2003
<http://www.sciencedaily.com/releases/2003/09/030905072028.htm>

Press release about Lick optical SETI instrument, picked up by multiple news agencies worldwide, article from Sky and Telescope Magazine, 2001
<http://www.skyandtelescope.com/resources/seti/3304566.html?page=3c=y>

Administrative Positions

University of California, San Diego

Astrophysics Seminar Committee Chair,
Center for Astrophysics and Space Sciences, September 2015 - present

Graduate Admissions Committee Member,
Physics Department, September 2015 - June 2016

Faculty Search Committee (Astrophysics),
Physics Department, December 2015 - June 2016

Physics Colloquium Committee Member,
Physics Department, September 2015 - June 2016

Faculty Search Committee (Condensed Matter),
Physics Department, September 2015 - March 2016

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University of California, San Diego (continued)

Educational and Outreach Committee Member,
Physics Department, January 2015 - June 2015

University of Toronto

Computing Committee (Chair),
Department of Astronomy & Astrophysics, July 2012 - December 2014

Healthy & Safety Committee,
Department of Astronomy & Astrophysics, January 2012 - December 2014

Astronomical Instrumentation Summer School,
Dunlap Institute, Admissions Committee (Chair), April 2014 - August 2014

Astronomical Instrumentation Summer School,
Dunlap Institute, Science Advisory Committee, January 2014 - August 2014

Dunlap Director Faculty Search Committee,
Department of Astronomy & Astrophysics and Dunlap Institute for Astronomy & Astrophysics,
August 2013 - March 2014

Astronomical Instrumentation Summer School,
Dunlap Institute, Science and Organizing Advisory Committee (Chair), January 2012 - July 2013

Astronomy Colloquium Committee,
Department of Astronomy & Astrophysics, August 2012 - May 2013

Dunlap Symposium SOC,
Dunlap Institute for Astronomy & Astrophysics, February 2013 - May 2013

Faculty Search Committee,
Department of Astronomy & Astrophysics and Dunlap Institute for Astronomy & Astrophysics,
October 2012 - March 2013

Dunlap Postdoctoral Fellowship Search Committee,
Dunlap Institute for Astronomy & Astrophysics, January 2012 - March 2013

Faculty Search Committee,
Department of Astronomy & Astrophysics and Dunlap Institute for Astronomy & Astrophysics,
October 2011 - March 2012

Dunlap Postdoctoral Fellowship Search Committee,
Dunlap Institute for Astronomy & Astrophysics, January 2011 - March 2012

Graduates Admission Committee,
Department of Astronomy & Astrophysics, January 2011 - March 2012

Astronomical Instrumentation Summer School,
Dunlap Institute, Science and Organizing Advisory Committee, January 2011 - August 2012

Other Service

10+10 Exchange Education Program, UC San Diego Representative, April 2016 - present

Breakthrough Listen, Advisory Committee Member, Jan 2016 - present

University of California Observatories, Advisory Committee Member, Jan 2015 - present

University of California, Keck Observatory TAC member, Jan 2015 - present

Maunakea Astronomy Advocates Member, April 2015 - present

Instrument Science Development Team (ISDT) Member, TMT, September 2013 - present

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Other Service (continued)

OSIRIS Pipeline Workshop, Co-organizer, May 2016

Canadian Telescope Time Allocation Committee, August 2013 – December 2014

AURA, NOAO Observatory Visiting Committee, November 2012 - February 2013

IRIS Science Workshop, Thirty Meter Telescope, Pasadena, Lead Organizer, August 8, 2012

Hubble Space Telescope Time Allocation Committee, 2011

OSIRIS Kinematics Workshop, UCLA, Organizing Committee, 2008

UC Los Angeles Graduate Student Representative, Astronomy, 2005–2006

UC Santa Cruz Principles of Community, undergraduate representative formulating UCSC's Principle of Community statement March–June 2001

Students for Evaluation Reform, Project organizer in support of the narrative evaluation system at UCSC, 1999–2000

California State University, San Jose, Research on southwestern pond turtle's nesting habits with use of radio telemetry, Summer 1998

Costa Rica National Park Service, Tortuguero National Park, Duties included park clean-up and cook for park station, and night watch for turtle egg poachers, Summer 1997