

Tuan Do

CONTACT INFORMATION

Physics and Astronomy Department
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RESEARCH INTERESTS

Milky Way structure, Galactic center, nuclear star clusters, stellar dynamics, star formation, stellar evolution, AGN variability, high angular resolution imaging

EDUCATION

University of California, Los Angeles, Los Angeles, CA USA

Ph.D., Astronomy, 2010

- Thesis Title: Physical processes in the vicinity of a supermassive black hole
- Advisor: Professor Andrea Ghez

M.S., Astronomy, 2006

- Thesis Topic: Reconstructing the mass loss history of pre-planetary nebulae with Spitzer
- Advisor: Professor Mark Morris

University of California, Berkeley, Berkeley, CA USA

B.A., Physics and Astrophysics, 2004

RESEARCH APPOINTMENTS

University of California, Los Angeles, Los Angeles, CA, USA

Assistant Professor

2020 to present

Associate Research Scientist

2017 to 2020

Assistant Research Scientist

2014 to 2017

Dunlap Institute for Astronomy and Astrophysics, University of Toronto, ON, Canada

Dunlap Fellow

August 2012 to November 2014

University of California, Irvine, Irvine, CA, USA

TMT Postdoctoral Fellow

September 2010 to July 2012

University of California, Los Angeles, Los Angeles, CA, USA

Graduate Research Assistant

2004 to 2010

University of Arizona, Tuscon, AZ, USA

Research for Undergraduates Program

June to August 2003

University of California, Berkeley, Berkeley, CA, USA

Undergraduate researcher

June 2001 to May 2003

TEACHING AND
PUBLIC
OUTREACH

University of California, Los Angeles, Los Angeles, CA, USA

- Astro 115 - Statistical Mechanics and Astrophysics - upper division course on statistical mechanics and applications in astrophysics, 31 students, **Winter 2016**

University of Toronto, Toronto, ON, Canada

- Teacher outreach committee - outreach to science teachers in local schools (2013 - 2014)
- Laboratory instructor and local organizing committee, Dunlap Instrumentation Summer School (2013, 2014)
- Summer Undergraduate Research Program (SURP), organizing committee member (2013, 2014)
- Lead designer and instructor for SURP short course (2013, 2014)
- Education and Public Outreach Committee member (2012 - 2014)

University of California, Los Angeles, Los Angeles, CA, USA

Teaching Assistant

- Astro 5 - Life in the universe **Fall 2008**
- Astro 6 - Cosmology **Winter 2005**
- Astro 3 - Nature of the universe **Fall 2004**

UCLA planetarium and telescopes coordinator **2005-2007**

Center for Adaptive Optics, Santa Cruz, CA, USA

Laboratory Instructor

August 2006, 2007, 2008, & 2009

- Part of a team that developed and taught the laboratory portion of the Adaptive Optics Summer School, a week long course designed to familiarize graduate students and post-docs with the theory and applications of adaptive topics.

REFEREED
PUBLICATIONS

[ADS link to refereed publications](#)

1. Lu W., Fuller J., Raveh Y., Perets H. B., Li T. S., Hosek M. W., Do T., “*The former companion of the hyper-velocity star S5-HVS1*”, 2020, arXiv e-prints, arXiv:2005.12300
2. Zhu Z., Li Z., Ciurlo A., Morris M. R., Zhang M., Do T., Ghez A. M., “*Galactic Center IRS13E: Colliding Stellar Winds or an Intermediate Mass Black Hole?*”, 2020, arXiv e-prints, arXiv:2003.10311
3. Feldmeier-Krause A., Kerzendorf W., Do T., Nogueras-Lara F., Neumayer N., Walcher C. J., Seth A., Schdel R., de Zeeuw P. T., Hilker M., Ltzgendorf N., Kuntschner H., Kissler-Patig M., “*Asymmetric spatial distribution of subsolar metallicity stars in the Milky Way nuclear star cluster*”, 2020, MNRAS, 494, 396
4. Hees A., Do T., Roberts B. M., Ghez A. M., Nishiyama S., Bentley R. O., Gautam A. K., Jia S., Kara T., Lu J. R., Saida H., Sakai S., Takahashi M., Takamori Y., “*Search for a Variation of the Fine Structure Constant around the Supermassive Black Hole in Our Galactic Center*”, 2020, Phys. Rev. Letters, 124, 081101
5. Ciurlo A., Campbell R. D., Morris M. R., Do T., Ghez A. M., Hees A., Sitarski B. N., Kosmo O’Neil K., Chu D. S., Martinez G. D., Naoz S., Stephan A. P., “*A population of dust-enshrouded objects orbiting the Galactic black hole*”, 2020, Nature, 577, 337

6. Naoz S., Will C. M., Ramirez-Ruiz E., Hees A., Ghez A. M., Do T., “*A Hidden Friend for the Galactic Center Black Hole, Sgr A**”, 2020, ApJL, 888, L8
7. Li C.-J., Kerzendorf W. E., Chu Y.-H., Chen T.-W., Do T., Gruendl R. A., Holmes A., Ishioka R., Leibundgut B., Pan K.-C., Ricker P. M., Weisz D., “*Search for Surviving Companions of Progenitors of Young LMC SN Ia Remnants*”, 2019, ApJ, 886, 99
8. Chen Z., Gallego-Cano E., Do T., Witzel G., Ghez A. M., Schdel R., Sitarski B. N., Becklin E. E., Lu J., Morris M. R., Dehghanfar A., Gautam A. K., Hees A., Hosek M. W., Jia S., Mangian A. C., Matthews K., “*Consistency of the Infrared Variability of SGR A* over 22 yr*”, 2019, ApJL, 882, L28
9. **Do T.**, Witzel G., Gautam A. K., Chen Z., Ghez A. M., Morris M. R., Becklin E. E., Ciurlo A., Hosek M., Martinez G. D., Matthews K., Sakai S., Schdel R., “*Unprecedented Near-infrared Brightness and Variability of Sgr A**”, 2019, ApJL, 882, L27
10. **Do T.**, Hees A., Ghez A., Martinez G. D., Chu D. S., Jia S., Sakai S., Lu J. R., Gautam A. K., O’Neil K. K., Becklin E. E., Morris M. R., Matthews K., Nishiyama S., Campbell R., Chappell S., Chen Z., Ciurlo A., Dehghanfar A., Gallego-Cano E., Kerzendorf W. E., Lyke J. E., Naoz S., Saida H., Schdel R., Takahashi M., Takamori Y., Witzel G., Wizinowich P., “*Relativistic redshift of the star S0-2 orbiting the Galactic Center supermassive black hole*”, 2019, Science, 365, 664
11. Hees A., Dehghanfar A., Do T., Ghez A. M., Martinez G. D., Campbell R., Lu J. R., “*An Adaptive Scheduling Tool to Optimize Measurements to Reach a Scientific Objective: Methodology and Application to Measurements of Stellar Orbits in the Galactic Center*”, 2019, ApJ, 880, 87
12. O’Neil K. K., Martinez G. D., Hees A., Ghez A. M., Do T., Witzel G., Konopacky Q., Becklin E. E., Chu D. S., Lu J. R., Matthews K., Sakai S., “*Improving Orbit Estimates for Incomplete Orbits with a New Approach to Priors: with Applications from Black Holes to Planets*”, 2019, AJ, 158, 4
13. Stephan A. P., Naoz S., Ghez A. M., Morris M. R., Ciurlo A., Do T., Breivik K., Coughlin S., Rodriguez C. L., “*The Fate of Binaries in the Galactic Center: The Mundane and the Exotic*”, 2019, ApJ, 878, 58
14. Sakai S., Lu J. R., Ghez A., Jia S., Do T., Witzel G., Gautam A. K., Hees A., Becklin E., Matthews K., Hosek M. W., “*The Galactic Center: An Improved Astrometric Reference Frame for Stellar Orbits around the Supermassive Black Hole*”, 2019, ApJ, 873, 65
15. Jia S., Lu J. R., Sakai S., Gautam A. K., Do T., Hosek M. W., Service M., Ghez A. M., Gallego-Cano E., Schdel R., Hees A., Morris M. R., Becklin E., Matthews K., “*The Galactic Center: Improved Relative Astrometry for Velocities, Accelerations, and Orbits near the Supermassive Black Hole*”, 2019, ApJ, 873, 9
16. Kerzendorf W. E., Do T., de Mink S. E., Gtberg Y., Milisavljevic D., Zapartas E., Renzo M., Justham S., Podsiadlowski P., Fesen R. A., “*No surviving non-compact stellar companion to Cassiopeia A*”, 2019, AAP, 623, A34

17. Lockhart K. E., Do T., Larkin J. E., Boehle A., Campbell R. D., Chappell S., Chu D., Ciurlo A., Cosens M., Fitzgerald M. P., Ghez A., Lu J. R., Lyke J. E., Mieda E., Rudy A. R., Vayner A., Walth G., Wright S. A., “*Characterizing and Improving the Data Reduction Pipeline for the Keck OSIRIS Integral Field Spectrograph*”, 2019, AJ, 157, 75
18. Gautam A. K., Do T., Ghez A. M., Morris M. R., Martinez G. D., Hosek M. W., Lu J. R., Sakai S., Witzel G., Jia S., Becklin E. E., Matthews K., “*An Adaptive Optics Survey of Stellar Variability at the Galactic Center*”, 2019, ApJ, 871, 103
19. Cosens M., Wright S. A., Mieda E., Murray N., Armus L., Do T., Larkin J. E., Larson K., Martinez G., Walth G., Vayner A., “*Size-Luminosity Scaling Relations of Local and Distant Star-forming Regions*”, 2018, ApJ, 869, 11
20. Kerzendorf W. E., Long K. S., Winkler P. F., Do T., “*Tycho-B: an unlikely companion for SN 1572**”, 2018, MNRAS, 479, 5696
21. Kerzendorf W. E., Strampelli G., Shen K. J., Schwab J., Pakmor R., Do T., Buchner J., Rest A., “*A search for a surviving companion in SN 1006*”, 2018, MNRAS, 479, 192
22. Witzel G., Martinez G., Hora J., Willner S. P., Morris M. R., Gammie C., Becklin E. E., Ashby M. L. N., Baganoff F., Carey S., Do T., Fazio G. G., Ghez A., Glaccum W. J., Haggard D., Herrero-Illana R., Ingalls J., Narayan R., Smith H. A., “*Variability Timescale and Spectral Index of Sgr A* in the Near Infrared: Approximate Bayesian Computation Analysis of the Variability of the Closest Supermassive Black Hole*”, 2018, ApJ, 863, 15
23. Do T., Kerzendorf W., Konopacky Q., Marciniak J. M., Ghez A., Lu J. R., Morris M. R., “*Super-solar Metallicity Stars in the Galactic Center Nuclear Star Cluster: Unusual Sc, V, and Y Abundances*”, 2018, ApJL, 855, L5
24. Hosek M. W., Lu J. R., Anderson J., Do T., Schlafly E. F., Ghez A. M., Clarkson W. I., Morris M. R., Albers S. M., “*The Optical/Near-infrared Extinction Law in Highly Reddened Regions*”, 2018, ApJ, 855, 13
25. Chu D. S., Do T., Hees A., Ghez A., Naoz S., Witzel G., Sakai S., Chappell S., Gautam A. K., Lu J. R., Matthews K., “*Investigating the Binarity of S0-2: Implications for Its Origins and Robustness as a Probe of the Laws of Gravity around a Supermassive Black Hole*”, 2018, ApJ, 854, 12
26. Naoz S., Ghez A. M., Hees A., Do T., Witzel G., Lu J. R., “*Confusing Binaries: The Role of Stellar Binaries in Biasing Disk Properties in the Galactic Center*”, 2018, ApJL, 853, L24
27. Hosek M. W., Lu J. R., Anderson J., Do T., Schlafly E. F., Ghez A. M., Clarkson W. I., Morris M. R., Albers S. M., “*The Optical/Near-infrared Extinction Law in Highly Reddened Regions*”, 2018, ApJ, 855, 13
28. Dong H., Schoedel R., Williams B. F., Noguera-Lara F., Gallego-Cano E., Gallego-Calvente T., Wang Q. D., Rich R. M., Morris M. R., **Do T.**, Ghez A., “*Near-infrared variability study of the central 2.3×2.3 arcmin² of the Galactic Centre* -

II. Identification of RR Lyrae stars in the Milky Way nuclear star cluster”, 2017, MNRAS, 471, 3617

29. Dong H., Schoedel R., Williams B. F., Nogueras-Lara F., Gallego-Cano E., Gallego-Calvente T., Wang Q. D., Morris M. R., **Do T.**, Ghez A., “*Near-infrared variability study of the central $2.3 \text{ arcmin} \times 2.3 \text{ arcmin}$ of the Galactic Centre - I. Catalogue of variable sources*”, 2017, MNRAS, 470, 3427
30. Witzel G., Sitarski B. N., Ghez A. M., Morris M. R., Hees A., **Do T.**, Lu J. R., Naoz S., Boehle A., Martinez G., Chappell S., Schoedel R., Meyer L., Yelda S., Becklin E. E., Matthews K., “*The Post-periapsis Evolution of Galactic Center Source G1: The Second Case of a Resolved Tidal Interaction with a Supermassive Black Hole*”, 2017, ApJ, 847, 80
31. Hees A., **Do T.**, Ghez A. M., Martinez G. D., Naoz S., Becklin E. E., Boehle A., Chappell S., Chu D., Dehghanfar A., Kosmo K., Lu J. R., Matthews K., Morris M. R., Sakai S., Schoedel R., Witzel G., “*Testing General Relativity with Stellar Orbits around the Supermassive Black Hole in Our Galactic Center*”, 2017, Physical Review Letters, 118, 211101
32. Feldmeier-Krause A., Kerzendorf W., Neumayer N., Schoedel R., Nogueras-Lara F., **Do T.**, de Zeeuw P. T., Kuntschner H., “*KMOS view of the Galactic Centre II. Metallicity distribution of late-type stars*”, 2017, MNRAS, 464, 194
33. B. N. Sitarski, G. Witzel, A. M. Ghez, M. R. Morris, **T. Do**, J. R. Lu, S. Naoz, A. Boehle, G. Martinez, S. Chappell, R. Schoedel, L. Meyer, S. Yelda, E. E. Becklin, K. Matthews, “*The post-periapse evolution of galactic center source G1: the second case of a resolved tidal interaction with a supermassive black hole*”, 2017, ApJ, 847, 80W
34. A. Boehle, A. M. Ghez, R. Schoedel, L. Meyer, S. Yelda, S. Albers, G. D. Martinez, E. E. Becklin, **T. Do**, J. R. Lu, K. Matthews, M. R. Morris, B. Sitarski, G. Witzel, “*An Improved Distance and Mass Estimate for Sgr A* from a Multi-Star Orbit Analysis*”, 2016, ApJ, 830, 17B
35. Vayner A., Wright S. A., **Do T.**, Larkin J. E., Armus L., Gallagher S. C., “*Providing Stringent Star Formation Rate Limits of $z \sim 2$ QSO Host Galaxies at High Angular Resolution*”, 2016, ApJ, 821, 64
36. Stephan A. P., Naoz S., Ghez A. M., Witzel G., Sitarski B. N., **Do T.**, Kocsis B., “*Merging Binaries in the Galactic Center: The eccentric Kozai-Lidov mechanism with stellar evolution*”, 2016, MNRAS, 460, 3494
37. Skidmore W., TMT International Science Development Teams, Science Advisory Committee, “*Thirty Meter Telescope Detailed Science Case: 2015*”, 2015, Research in Astronomy and Astrophysics, 15, 1945
38. **Do T.**, Kerzendorf W., Winsor N., Stostad M., Morris M. R., Lu J. R., Ghez A. M., “*Discovery of Low-metallicity Stars in the Central Parsec of the Milky Way*”, 2015, ApJ, 809, 143
39. Stostad M., **Do T.**, Murray N., Lu J. R., Yelda S., Ghez A., “*Mapping the Outer*

Edge of the Young Stellar Cluster in the Galactic Center”, 2015, ApJ, 808, 106

40. Witzel G., Ghez A. M., Morris M. R., Sitarski B. N., Boehle A., Naoz S., Campbell R., Becklin E. E., Canalizo G., Chappell S., **Do T.**, Lu J. R., Matthews K., Meyer L., Stockton A., Wizinowich P., Yelda S., “*Detection of Galactic Center Source G2 at 3.8 μ m during Periapse Passage*”, 2014, ApJL, 796, L8
41. **Do T.**, Wright S. A., Barth A. J., Barton E. J., Simard L., Larkin J. E., Moore A. M., Wang L., Ellerbroek B., “*Prospects for Measuring Supermassive Black Hole Masses with Future Extremely Large Telescopes*”, 2014, AJ, 147, 93
42. Mieda E., Wright S. A., Larkin J. E., Graham J. R., Adkins S. M., Lyke J. E., Campbell R. D., Maire J., **Do T.**, Gordon J., “*Efficiency Measurements and Installation of a New Grating for the OSIRIS Spectrograph at Keck Observatory*”, 2014, PASP, 126, 250
43. Yelda S., Ghez A. M., Lu J. R., **Do T.**, Meyer L., Morris M. R., Matthews K., “*Properties of the Remnant Clockwise Disk of Young Stars in the Galactic Center*”, 2014, ApJ, 783, 131
44. Kerzendorf W. E., Childress M., Scharwächter J., **Do T.**, Schmidt B. P., “*A Reconnaissance of the Possible Donor Stars to the Kepler Supernova*”, 2014, ApJ, 782, 27
45. **Do, T.**, Martinez, G. D., Yelda, S., Ghez, A. M., Bullock, J., Kaplinghat, M., Lu, J. R., Peter, A. G. H., Phifer, K., “*Three-dimensional stellar kinematics at the Galactic center: measuring the nuclear star cluster spatial density profile, black hole mass, and distance*”, 2013, ApJL, 779, L6
46. Phifer, K., **Do, T.**, Meyer, L., Ghez, A. M., Witzel, G., Yelda, S., Boehle, A., Lu, J. R., Morris, M. R., Becklin, E. E., and Matthews, K., “*Keck Observations of the Galactic Center Source G2: Gas Cloud or Star?*”, 2013, ApJL, 773, L13
47. Lu, J. R., **Do, T.**, Ghez, A. M., Morris, M. R., Yelda, S., and Matthews, K., “*Stellar Populations in the Central 0.5 pc of the Galaxy. II. The Initial Mass Function*”, 2013, ApJ, 764, 155
48. **Do, T.**, Lu, J. R., Ghez, A. M., Morris, M. R., Yelda, S., Martinez, G. D., Wright, S. A., and Matthews, K., “*Stellar Populations in the Central 0.5 pc of the Galaxy. I. A New Method for Constructing Luminosity Functions and Surface-density Profiles*”, 2013, ApJ, 764, 154
49. Meyer, L., Ghez, A. M., Schödel, R., Yelda, S., Boehle, A., Lu, J. R., **Do, T.**, Morris, M. R., Becklin, E. E., and Matthews, K., “*The Shortest-Known-Period Star Orbiting Our Galaxy’s Supermassive Black Hole*”, 2012, Science, 338, 84
50. Clarkson, W. I., Ghez, A. M., Morris, M. R., Lu, J. R., Stolte, A., McCrady, N., **Do, T.**, Yelda, S., “*Proper Motions of the Arches Cluster with Keck Laser Guide Star Adaptive Optics: The First Kinematic Mass Measurement of the Arches*”, 2012, ApJ, 751, 132
51. Yelda, S.; Lu, J. R.; Ghez, A. M.; Clarkson, W.; Anderson, J.; **Do, T.**; Matthews,

K., “*Improving Galactic Center Astrometry by Reducing the Effects of Geometric Distortion*”, 2010, ApJ, 725, 331

52. Stolte, A.; Morris, M. R.; Ghez, A. M.; **Do, T.**; Lu, J. R.; Ballard, C.; Mills, E.; Matthews, K., “*Disks in the Arches cluster – survival in a starburst environment*”, 2010, ApJ, 718, 810
53. **Do, T.**; Ghez, A. M.; Morris, M. R.; Lu, J. R.; Matthews, K.; Yelda, S.; Larkin, J., 2009, “*High angular resolution integral-field spectroscopy of the Galaxy’s nuclear cluster: a missing stellar cusp?*”, ApJ, 703, 1323
54. Meyer, L.; **Do, T.**; Ghez, A.; Morris, M. R.; Yelda, S.; Schoedel, R.; Eckart, A.; “*A power-law break in the near-infrared power spectrum of the Galactic center black hole*”, 2009, ApJL, 694, 1
55. **Do, T.**; Ghez, A. M.; Morris, M. R.; Yelda, S.; Meyer, L.; Lu, J. R.; Hornstein, S. D.; Matthews, K.; “*A Near-Infrared Variability Study of the Galactic Black Hole: A Red Noise Source with No Detected Periodicity*”, 2009, ApJ, 691, 1021
56. Ghez, A. M.; Salim, S.; Weinberg, N. N.; Lu, J. R.; **Do, T.**; Dunn, J. K.; Matthews, K.; Morris, M. R.; Yelda, S.; Becklin, E. E.; Kremenek, T.; Milosavljevic, M.; Naiman, J.; “*Measuring Distance and Properties of the Milky Way’s Central Supermassive Black Hole with Stellar Orbits*”, 2008, ApJ, 689, 1044
57. Meyer, L.; **Do, T.**; Ghez, A.; Morris, M. R.; Witzel, G.; Eckart, A.; Blanger, G.; Schodel, R.; “*A 600 Minute Near-Infrared Light Curve of Sagittarius A**”, 2008, ApJL, 688, 17
58. **Do, T.**; Morris, M. R.; Sahai, R.; Stapelfeldt, K.; “*A Spitzer Study of the Mass-Loss Histories of Three Bipolar Preplanetary Nebulae*”, 2007, AJ, 134, 1417
59. Morris, M. R.; Uchida, K.; **Do, T.**; “*A magnetic torsional wave near the Galactic Centre traced by a double helix nebula*”, 2006, Nature, 7082, 308

CONFERENCE
PROCEEDINGS

Do T., Ghez A., Becklin E., Genzel R., Psaltis D., Perets H., Armitage P., Gammie C., Quataert E., Hosek M., Gautam A. K., Bentley R. O., Morris M. R., Lu J., O’Neil K. K., Chen Z., Hees A., Ciurlo A., Rich R. M., Kerzendorf W., Dehghanfar A., Naoz S., Beaton R. L., Bellini A., Greene J., Chakrabarti S., Chu D. S., Libralato M., Witzel G., Nishiyama S., Rasio F., Weinberg N. N., Ramirez-Ruiz E., Ozel F., Hora J., Smith H., “*Envisioning the next decade of Galactic Center science: a laboratory for the study of the physics and astrophysics of supermassive black holes*”, 2019, BAAS, 51, 530

Do T., Hees A., Dehghanfar A., Ghez A., Wright S., “*Measuring the effects of General Relativity at the Galactic Center with Future Extremely Large Telescopes*”, 2017, AO4ELT5 Proceedings, arXiv:1711.06389

Do T., Ghez A., Morris M., Lu J., Chappell S., Feldmeier-Krause A., Kerzendorf W., Martinez G. D., Murray N., Winsor N., “*Observational constraints on the formation and evolution of the Milky Way nuclear star cluster with Keck and Gemini*”, 2017, The Multi-Messenger Astrophysics of the Galactic Centre, 322, 222

Moore A. M., Larkin J. E., Wright S. A., Bauman B., Dunn J., Ellerbroek B., Phillips A. C., Simard L., Suzuki R., Zhang K., Aliado T., Brims G., Canfield J., Chen S., Dekany R., Delacroix A., **Do T.**, Herriot G., Ikenoue B., Johnson C., Meyer E., Obuchi Y., Pazder J., Reshetov V., Riddle R., Saito S., Smith R., Sohn J. M., Uraguchi F., Usuda T., Wang E., Wang L., Weiss J., Wooff R., “*The Infrared Imaging Spectrograph (IRIS) for TMT: instrument overview*”, 2014, Proc. SPIE, 9147, 914724

Do T., Wright S. A., Barth A. J., Barton E. J., Simard L., Larkin J. E., Moore A. M., Wang L., Ellerbroek B., “*Prospects for Measuring Supermassive Black Hole Masses with TMT*”, 2014, Thirty Meter Telescope Science Forum, 40

Wright S. A., Larkin J. E., Moore A. M., **Do T.**, Simard L., Adamkovics M., Armus L., Barth A. J., Barton E., Boyce H., Cooke J., Cote P., Davidge T., Ellerbroek B., Ghez A. M., Liu M. C., Lu J. R., Macintosh B. A., Mao S., Marois C., Schoeck M., Suzuki R., Tan J. C., Treu T., Wang L., Weiss J., “*The infrared imaging spectrograph (IRIS) for TMT: overview of innovative science programs*”, 2014, Proc. SPIE, 9147, 91479S

Witzel G., Morris M., Ghez A., Meyer L., Becklin E., Matthews K., Lu J. R., **Do T.**, Campbell R., “*Near infrared variability of Sgr A* - spectral index measurements*”, 2014, IAU Symposium, 303, 274

Meyer L., Ghez A. M., Witzel G., **Do T.**, Phifer K., Sitarski B. N., Morris M. R., Boehle A., Yelda S., Lu J. R., Becklin E., “*The Keplerian orbit of G2*”, 2014, IAU Symposium, 303, 264

Lu J. R., Ghez A. M., Morris M. R., Clarkson W., Stolte A., **Do T.**, Yelda S., Anderson J., “*Young stars in the Galactic center*”, 2014, IAU Symposium, 303, 211

Paumard T., Morris M. R., **Do T.**, Ghez A., “*Regularized OSIRIS 3D spectroscopy at the circumnuclear disk ionization front*”, 2014, IAU Symposium, 303, 109

Ghez A. M., Witzel G., Sitarski B., Meyer L., Yelda S., Boehle A., Becklin E. E., Campbell R., Canalizo G., **Do T.**, Lu J. R., Matthews K., Morris M. R., Stockton A., “*Detection of Galactic Center Source G2 at 3.8 micron during Periapse Passage Around the Central Black Hole*”, 2014, The Astronomer’s Telegram, 6110, 1

van der Marel R. P., Anderson J., Bellini A., Besla G., Bianchini P., Boylan-Kolchin M., Chaname J., Deason A., **Do T.**, Guhathakurta P., Kallivayalil N., Lennon D., Massari D., Meyer E., Platais I., Sabbi E., Sohn S. T., Soto M., Trenti M., Watkins L., “*Local Group and Star Cluster Dynamics from HSTPROMO: The Hubble Space Telescope Proper Motion Collaboration*”, 2014, Structure and Dynamics of Disk Galaxies, 480, 43

Yelda S., Meyer L., Ghez A., **Do T.**, “*Astrometry in the Galactic Center with the Thirty Meter Telescope*”, 2013, arXiv:1310.5744

Fitzgerald M. P., Witzel G., Britton M. C., Ghez A. M., Meyer L., Sitarski B. N., Cheng C., Becklin E. E., Campbell R. D., **Do T.**, Lu J. R., Matthews K., Morris M. R., Neyman C. R., Tyler G. A., Wizinowich P. L., Yelda S., “*Modeling anisoplanatism in the Keck II laser guide star AO system*”, 2012, Proc. SPIE, 8447,

Yelda S., Ghez A. M., Lu J. R., **Do T.**, Meyer L., Morris M. R., “*Adaptive optics observations of the galactic center young stars*”, 2012, Proc. SPIE, 8447,

Do T., Ghez A., Lu J. R., Morris M. R., Yelda S., Martinez G. D., Peter A. H. G., Wright S., Bullock J., Kaplinghat M., Matthews K., “*Measuring the stellar luminosity function and spatial density profile of the inner 0.5 pc of the Milky Way nuclear star cluster*”, 2012, Journal of Physics Conference Series, 372, 012016

Ghez A. M., Morris M. R., **Do T.**, Yelda S., Lu J. R., Matthews K., “*Bringing our Galaxy’s Central Supermassive Black Hole and its Environs into Focus with Laser Guide Star Adaptive Optics*”, 2012, Twelfth Marcel Grossmann Meeting on General Relativity, 420

Lu J. R., Clarkson W., McCrady N., Ghez A. M., Morris M. R., Stolte A., Yelda S., **Do T.**, “*Clarifying our View of Star Formation in Massive Young Clusters with Adaptive Optics*”, 2011, UP2010: Have Observations Revealed a Variable Upper End of the Initial Mass Function?, 440, 63

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MENTORSHIP

2019 - present - Shizhe (Alex) Chen - UCLA undergraduate, research on orbit modeling and deep learning applications in astronomy.

2019 - present - Ethan Cochran - UCLA undergraduate, research on photometric variability at the Galactic center.

2019 - present - Rebecca Lewis - UCLA undergraduate, research on hypervelocity stars at the Galactic center

2018 - present - Matthew Hosek - UCLA Postdoc, research on the Milky Way Nuclear Star Cluster and stellar populations.

2018 - present - Rory Bentley - UCLA graduate student, research on abundances and chemical evolution at the Galactic center.

2017 - Joseph Marciniak - REU student from St. Vincent University, research on high metallicity stellar abundances at the Galactic center.

2014-Present - Abhimat Krishna Gautam - graduate student at UCLA, research on stellar variability at the Galactic center

2014-Present - Devin Chu - graduate student at UCLA, research on stellar orbits around the Milky Way supermassive black hole

2016 Summer - Ryan Boyden - REU student from University of Massachusetts, Amherst, research on characterizing the initial mass function and kinematic properties of the young massive cluster Mercer 23

2014-2016 - Nathan Winsor - undergraduate from Memorial University, Newfoundland, research on abundance measurements of stars in the Milky Way nuclear star cluster

2013-2015 - Morten Stostad - undergraduate from University of Toronto - research project on the young stellar disk at the Galactic center.

AWARDS AND
HONORS

2014 - Kavli Fellow

2012 - 2014 Dunlap Fellowship, Dunlap Institute, University of Toronto

2010 - Dissertation Year Fellowship, UCLA