

Ya-Lin Wu

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Education:

University of Arizona, Ph.D., Astronomy and Astrophysics	2018
▪ Advisor: Dr. Laird Close	
National Taiwan University, M.S., Astrophysics	2011
National Taiwan University, B.S., Physics	2009

Areas of Interest:

exoplanets, exomoons, circumstellar and circumplanetary disks, brown dwarfs, high-contrast imaging, adaptive optics, radio interferometry, young stellar objects, giant molecular clouds, amateur astronomy

Teaching and Outreach Experiences:

Tucson Initiative for Minority Engagement in Science and Technology Program	2017
Lecturer, Mount Lemmon Adult Astronomy Camp	April 2016
Lecturer, Mount Lemmon Adult Astronomy Camp	May 2015
Teaching Assistant, ASTR 202 Life in the Universe	Spring 2016
Teaching Assistant, ASTR 202 Life in the Universe	Fall 2014
Teaching Assistant, ASTR 201 Cosmology	Spring 2014
Teaching Assistant, ASTR 170 The Physical Universe	Fall 2013

Honors:

51 Pegasi b Postdoctoral Fellowship, Heising-Simons Foundation	2018 – 2021
TRIF Fellowship, University of Arizona	2016 – 2017
College of Science Award in Teaching, University of Arizona	2016
Government Scholarship to Study Abroad, Taiwan	2015 – 2017
College of Science Scholarship, University of Arizona	2012 – 2013

Refereed Publications (10 first-author, 16 total):

First author

Wu, Y.-L., Close, L. M., Kim, J. S., Males, J. R., Morzinski, K. M., “*The Intricate Structure of the Brightest Microjet HH 508 in the Orion Nebula*”, The Astrophysical Journal, 2018, accepted

Wu, Y.-L., Close, L. M., Eisner, J. A., Sheehan, P. D., “*An Explanation of the Very Low Radio Flux of Young Planet-mass Companions*”, The Astronomical Journal, 2017, 154, 234
<http://adsabs.harvard.edu/abs/2017AJ....154..234W>

Wu, Y.-L., Sheehan, P. D., “*An ALMA Dynamical Mass Estimate of the Proposed Planetary-mass Companion FW Tau C*”, The Astrophysical Journal Letters, 846, L26, 2017
<http://adsabs.harvard.edu/abs/2017ApJ...846L..26W>

Wu, Y.-L., Smith, N., Close, L. M., Males, J. R., Morzinski, K. M., “*Resolving the Ha-emitting Region in the Wind of η Carinae*”, The Astrophysical Journal Letters, 841, L7, 2017
<http://adsabs.harvard.edu/abs/2017ApJ...841L...7W>

- Wu, Y.-L.**, Sakamoto, K., Pan, H.-A., “*Submillimeter Array $^{12}\text{CO}(2-1)$ Imaging of the NGC 6946 Giant Molecular Clouds*”, The Astrophysical Journal, 839, 6, 2017
<http://adsabs.harvard.edu/abs/2017ApJ...839....6W>
- Wu, Y.-L.**, Sheehan, P. D., Males, J. R., et al., “*An ALMA and MagAO Study of the Substellar Companion GQ Lup B*”, The Astrophysical Journal, 836, 223, 2017
<http://adsabs.harvard.edu/abs/2017ApJ...836..223W>
- Wu, Y.-L.**, Close, L. M., Bailey, V. P., et al., “*Magellan AO System z' , Ys, and L' Observations of the Very Wide 650 AU HD 106906 Planetary System*”, The Astrophysical Journal, 823, 24, 2016
<http://adsabs.harvard.edu/abs/2016ApJ...823...24W>
- Wu, Y.-L.**, Close, L. M., Males, J. R., et al., “*New Extinction and Mass Estimates of the Low-Mass Companion IRXS 1609 B with the Magellan AO System: Evidence of an Inclined Dust Disk*”, The Astrophysical Journal Letters, 807, L13, 2015
<http://adsabs.harvard.edu/abs/2015ApJ...807L..13W>
- Wu, Y.-L.**, Close, L. M., Males, J. R., et al., “*New Extinction and Mass Estimates from Optical Photometry of the very Low Mass Brown Dwarf Companion CT Chamaeleontis B with the Magellan AO System*”, The Astrophysical Journal, 801, 4, 2015
<http://adsabs.harvard.edu/abs/2015ApJ...801....4W>
- Wu, Y.-L.**, Close, L. M., Males, J. R., et al., “*High Resolution H α Images of the Binary Low-mass Proplyd LV 1 with the Magellan AO System*”, The Astrophysical Journal, 774, 45, 2013
<http://adsabs.harvard.edu/abs/2013ApJ...774...45W>

Co-author

- Morzinski, K. M., Males, J. R., Skemer, A. J.,..., and **Wu, Y.-L.**, “*Magellan Adaptive Optics First-light Observations of the Exoplanet β Pic b. II. 3-5 μm Direct Imaging with MagAO+Clio, and the Empirical Bolometric Luminosity of a Self-luminous Giant Planet*”, The Astrophysical Journal, 815, 108, 2015
<http://adsabs.harvard.edu/abs/2015ApJ...815..108M>
- Rodigas, T. J., Stark, C. C., Weinberger A.,..., **Wu, Y.-L.**, et al., “*On the Morphology and Chemical Composition of the HR 4796A Debris Disk*”, The Astrophysical Journal, 798, 96, 2015
<http://adsabs.harvard.edu/abs/2015ApJ...798...96R>
- Males, J. R., Close, L. M., Morzinski, K. M.,..., and **Wu, Y.-L.**, “*Magellan Adaptive Optics First-light Observations of the Exoplanet β Pic b. I. Direct Imaging in the Far-red Optical with MagAO+VisAO and in the Near-IR with NICI*”, The Astrophysical Journal, 786, 32, 2014
<http://adsabs.harvard.edu/abs/2014ApJ...786...32M>
- Follette, K. B., Close, L. M., Males, J. R., Kopon, D., **Wu, Y.-L.**, et al., “*The First Circumstellar Disk Imaged in Silhouette at Visible Wavelengths with Adaptive Optics: MagAO Imaging of Orion 218-354*”, The Astrophysical Journal Letters, 775, 13, 2013
<http://adsabs.harvard.edu/abs/2013ApJ...775L..13F>
- Close, L. M., Males, J. R., Morzinski, K. M.,..., **Wu, Y.-L.**, et al., “*Diffraction-limited Visible Light Images of Orion Trapezium Cluster with the Magellan Adaptive Secondary Adaptive Optics System (MagAO)*”, The Astrophysical Journal, 774, 94, 2013
<http://adsabs.harvard.edu/abs/2013ApJ...774...94C>

Hsieh, P.-Y., Matsushita, S., Liu, G.,..., and **Wu, Y.-L.**, “*Physical Properties of the Circumnuclear Starburst Ring in the Barred Galaxy NGC 1097*”, The Astrophysical Journal, 736, 129, 2011
<http://adsabs.harvard.edu/abs/2011ApJ...736..129H>

Conference Proceedings and Non-refereed Publications (4 total):

Morzinski, K. M., Close, L. M., Males, J. R.,..., and **Wu, Y.-L.**, “*MagAO: Status and Science*”, Proc. SPIE 9909, Adaptive Optics Systems V, 990901, 2016
<http://dx.doi.org/10.1117/12.2233911>

Haug-Baltzell, A., Males, J. R., Morzinski, K. M., **Wu, Y.-L.**, et al., “*High-Contrast Imaging in the Cloud with klipReduce and Findr*”, Proc. SPIE 9913, Software and Cyberinfrastructure for Astronomy III, 99130F, 2016
<http://dx.doi.org/10.1117/12.2234095>

Van Dyk, S. D., Ascenso, J., **Wu, Y.-L.**, et al., “*Possible Identification of the Progenitor of SN 2016adj in NGC 5128 (Centaurus A)*”, The Astronomer’s Telegram, No. 8693, 2016
<http://www.astronomerstelegam.org/?read=8693>

Close, L. M., Males, J. R., Follette, K. B.,..., **Wu, Y.-L.**, et al., “*Into the Blue: AO Science with MagAO in the Visible*”, Proc. SPIE 9148, Adaptive Optics Systems IV, 91481M, 2014
<http://dx.doi.org/10.1117/12.2057297>