Christopher A. Theissen

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PROFESSIONAL APPOINTMENTS	Assistant Professor UC San Diego, Department of Astronomy & Astrophysics	Jul 2023-Present
	UCSD Chancellor's Postdoctoral Fellow NASA Sagan Postdoctoral Fellow Visting Scholar UC San Diego, Center for Astrophysics and Space Sciences	Sep 2021–Jun 2023 Sep 2019–Sep 2022 Jan 2019–Sep 2019
	Postdoctoral Scholar – Konopacky Group UC San Diego, Center for Astrophysics and Space Sciences PI: Quinn Konopacky	Jan 2018-Jan 2019
	Adjunct Professor – San Diego Mesa College Department of Physical Sciences	Jun 2017-Jan 2019
EDUCATION	Boston University, Boston, Massachusetts, USA Doctor of Philosophy (Ph.D.) in Astronomy Thesis: Low-mass Stars with Extreme Mid-Infrared Excesses: Potential Signatures of Planetary Collisions	Jan 2018
	Master of Arts (M.A.) in Astronomy	May 2013
	University of California San Diego, La Jolla, California, USA	
	Bachelor of Science (B.S.) in Physics Specialization in Astrophysics	Jun 2010
	Bachelor of Arts (B.A.) in Mathematics Applied Science	Jun 2010
	San Diego Mesa College, San Diego, California, USA	
	Associate of Arts (A.A.) in Transfer Studies	Jun 2007
ACADEMIC	UC San Diego Chancellor's Postdoctoral Fellowship	2021–2023
AWARDS &	UC San Diego Chancellor's Outstanding Postdoctoral Scholar Award	2020–2021
HONORS	NASA Hubble Fellowship Program Sagan Postdoctoral Fellowship	2019–2022
	Ford Foundation Dissertation Fellowship (Honorable Mention/Alternate)	2016
	National Science Foundation Graduate K-12 Fellowship	2014–2015 2012
	Excellent Teaching Fellow Award, Boston University Ford Foundation Predoctoral Fellowship	2012–2016
	California Alliance for Minority Participation Graduate School Application Award	
	Minority Undergraduate Research Fellowship, California Institute of Technology	2009
	Opportunity Grant, University of California San Diego	2009–2010

RESEARCH EXPERIENCE	Konopacky Group, UC SAN DIEGO Postdoctoral Scholar	2018–2019
	PI: Quinn Konopacky	
	Cool Star Lab, UC SAN DIEGO	2015–2017
	Visiting Graduate Student Researcher	
	Mentor: Adam Burgasser	
	West Group, Boston University	2011–2017
	Graduate Student Researcher	

TEACHING EXPERIENCE

Physics 253: Astrophysical Statistics, UC San Diego, San Diego, CA	Fall 2023
Astronomy 101: Descriptive Astronomy, Mesa College, San Diego, CA	Summer 2017
Adjunct Faculty	
8th Grade Science, Atlantic Middle School, Quincy, Massachusetts	2014–2015
Resident Scientist (NSF GK-12 Fellow)	
Astronomy 203: Principles of Astronomy II, Boston University	Spring 2012
Teaching Fellow	
Astronomy 101: The Solar System, Boston University	Fall 2011
Teaching Fellow	

FIRST-AUTHOR REFEREED PUBLICATIONS

*Directly mentored student co-authors are underlined.

Advisor: Andrew West

- A7 Theissen, C. A., Konopacky, Q. M., Lu, J. R., Kim, D., Zhang, S., Hsu, C., Chu, L., Wei, L., "The 3-D Kinematics of the Orion Nebula Cluster: NIRSPEC-AO Radial Velocities of the Core Population," *Astrophysical Journal*, 926, 141, Oct 2021.
- A6 Theissen, C. A., "Parallaxes of Cool Objects with WISE: Filling in for Gaia," Astrophysical Journal, 862, 173, Aug 2018.
- A5 Theissen, C. A., Burgasser, A. J., Bardalez Gagliuffi, D. C., Hardegree-Ullman, K. K., Gagné, J., Schmidt, S. J., West, A. A., "2MASS J11151597+1937266: A Young, Dusty, Isolated, Planetary-Mass Object with a Potential Wide Stellar Companion," *Astrophysical Journal*, 853, 75, Jan 2018.
- A4 Theissen, C. A., West, A. A., "Collisions of Terrestrial Worlds: The Occurrence of Extreme Mid-Infrared Excesses around Low-mass Field Stars," *Astronomical Journal*, 153, 165, Apr 2017.
- A3 Theissen, C. A., West, A. A., Shippee, G., Burgasser, A. J., Schmidt, S. J., "The Late-Type Extension to MoVeRS (LaTE-MoVeRS): Proper Motion Verified Low-mass Stars and Brown Dwarfs from SDSS, 2MASS, and WISE," Astronomical Journal, 153, 92, Feb 2017.
- A2 Theissen, C. A., West, A. A., Dhital, S., "Motion Verified Red Stars (MoVeRS): A Catalog of Proper Motion Selected Low-mass Stars from *WISE*, SDSS, and 2MASS," *Astronomical Journal*, 151, 41, Feb 2016.
- A1 Theissen, C. A., West, A. A., "Warm Dust around Cool Stars: WISE 12 and 22 μm Excesses around SDSS M Dwarfs," Astrophysical Journal, 794, 146, Oct 2014.

CO-AUTHOR REFEREED PUBLICATIONS

- Pozuelos, F. J., Timmermans, M., Rackham, B. V., Garcia, L. J., Burgasser, A. J., Kane, S. R., Günther, M. N., Stassun, K. G., Van Grootel, V., Dévora-Pajares, M., Luque, R., Edwards, B., Niraula, P., Schanche, N., Wells, R. D., Ducrot, E., Howell, S., Sebastian, D., Barkaoui, K., Waalkes, W., Cadieux, C., Doyon, R., Boyle, R. P., Dietrich, J., Burdanov, A., Delrez, L., Demory, B. -O., de Wit, J., Dransfield, G., Gillon, M., Gómez Maqueo Chew, Y., Hooton, M. J., Jehin, E., Murray, C. A., Pedersen, P. P., Queloz, D., Thompson, S. J., Triaud, A. H. M. J., Zúñiga-Fernández, S., Collins, K. A., Fausnaugh, M. M., Hedges, C., Hesse, K. M., Jenkins, J. M., Kunimoto, M., Latham, D. W., Shporer, A., Ting, E. B., Torres, G., Amado, P., Rodón, J. R., Rodríguez-López, C., Suárez, J. C., Alonso, R., Benkhaldoun, Z., Berta-Thompson, Z. K., Chinchilla, P., Ghachoui, M., Gómez-Muñoz, M. A., Rebolo, R., Sabin, L., Schroffenegger, U., Furlan, E., Gnilka, C., Lester, K., Scott, N., Aganze, C., Gerasimov, R., Hsu, C., Theissen, C. A., Apai, D., Chen, W. P., Gabor, P., Henning, T., Mancini, L., "A super-Earth and a mini-Neptune near the 2:1 MMR straddling the radius valley around the nearby mid-M dwarf TOI-2096," Astrophysics, 672, A70, Apr 2023.
- B28 Hsu, C., Burgasser, A. J., **Theissen, C. A.**, "Discovery of the Exceptionally Short Period Ultracool Dwarf Binary LP 413-53AB," *Astrophysical Journal Letters*, 945, L6, Mar 2023.
- Franson, K., Bowler, B. P., Zhou, Y, Pearce, T. D., Bardalez Gagliuffi, D. C., Biddle, L., Brandt, T. D., Crepp, J. R., Dupuy, T. J., Faherty, J., Jensen-Clem, R., Morgan, M., Sanghi, A., Theissen, C. A., Tran, Q. H., Wolf, T. A., "Astrometric Accelerations as Dynamical Beacons: A Giant Planet Imaged Inside the Debris Disk of the Young Star AF Lep," Astrophysical Journal Letters, , Feb 2023.
- Schneider, A. C., Burgasser, A. J., Bruursema, J., Munn, J. A., Vrba, F. J., Caselden, D., Kabatnik, M., Rothermich, A., Sainio, A., Bickle, T. P., Dahm, S. E., Meisner, A. M., Kirkpatrick, J. D., Suárez, G., Gagné, J., Faherty, J. K., Vos, J. M., Kuchner, M. J., Williams, S. J., Bardalez Gagliuffi, D. C., Aganze, C., Hsu, C., Theissen, C. A., Cushing, M. C., Marocco, F., Casewell, S., Backyard Worlds: Planet 9 Collaboration, "Redder than Red: Discovery of an Exceptionally Red L/T Transition Dwarf," Astrophysical Journal Letters, 943, L16, Feb 2023.
- B25 Franson, K., Bowler, B. P., Bonavita, M., Brandt, T. D., Chen, M., Samland, M., Zhang, Z., Lueber, A., Heng, K., Kitzmann, D., Wolf, T., Jones, B. A., Tran, Q. H., Bardalez Gagliuffi, D. C., Biller, B., Chilcote, J.; Crepp, J. R., Dupuy, T. J., Faherty, J., Fontanive, C., Groff, T. D., Gratton, R., Guyon, O., Jensen-Clem, R., Jovanovic, N., Kasdin, N. J., Lozi, J., Magnier, E. A., Muzic, K., Sanghi, A., Theissen, C. A., "Astrometric Accelerations as Dynamical Beacons: Discovery and Characterization of HIP 21152 B, the First T-Dwarf Companion in the Hyades," Astronomical Journal, 165, 39, Feb 2023.
- B24 Tamburo, P., Muirhead, P. S., McCarthy, A. M., Hart, M., Vos, J. M., Agol, E., Theissen, C. A., Gracia, D., Bardalez Gagliuffi, D. C., Faherty, J. K., "The Perkins INfrared Exosatellite Survey (PINES) II. Transit Candidates and Implications for Planet Occurrence around L and T Dwarfs," *Astronomical Journal*, 164, 252, Dec 2022.
- Delrez, L., Murray, C. A., Pozuelos, F. J., Narita, N., Ducrot, E., Timmermans, M., Watanabe, N., Burgasser, A. J., Hirano, T., Rackham, B. V., Stassun, K. G., Van Grootel, V., Aganze, C., Cointepas, M., Howell, S., Kaltenegger, L., Niraula, P., Sebastian, D., Almenara, J. M., Barkaoui, K., Baycroft, T. A., Bonfils, X., Bouchy, F., Burdanov, A., Caldwell, D. A., Charbonneau, D., Ciardi, D. R., Collins, K. A., Daylan, T., Demory, B. -O., de Wit, J., Dransfield, G., Fajardo-Acosta, S. B., Fausnaugh, M., Fukui, A., Furlan, E., Garcia, L. J., Gnilka, C. L., Gómez Maqueo Chew, Y., Gómez-Muñoz, M. A., Günther, M. N., Harakawa, H., Heng, K., Hooton, M. J., Hori, Y., Ikoma, M., Jehin, E., Jenkins, J. M., Kagetani, T., Kawauchi, K., Kimura, T., Kodama, T., Kotani, T., Krishnamurthy, V., Kudo, T., Kunovac, V., Kusakabe, N., Latham, D. W., Littlefield, C., McCormac, J., Melis, C., Mori, M., Murgas, F., Palle, E., Pedersen, P. P., Queloz, D., Ricker, G., Sabin, L., Schanche, N., Schroffenegger, U., Seager, S., Shiao, B., Sohy, S., Standing, M. R., Tamura, M., Theissen, C. A., Thompson, S. J., Triaud, A. H. M. J., Vanderspek, R., Vievard, S., Wells, R. D., Winn, J. N., Zou, Y., Zúñiga-Fernández, S., Gillon, M., "Two Temperate Super-Earths Transiting a Nearby Late-type M Dwarf," Astronomy & Astrophysics, 667, 59, Nov 2022.

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- B22 Hoch, K. W., Konopacky, Q. M., Barman, T. S., Theissen, C. A., Brock, L., Perrin, M.D., Ruffio, J.-B., Macintosh, B., Marois, C., "Moderate-Resolution K-Band Spectroscopy of the Substellar Companion VHS 1256 b," Astronomical Journal, 164, 155, Oct 2022.
- B21 Gan, T., Soubkiou, A., Wang, S. X., Benkhaldoun, Z, Mao, S., Artigau, E., Fouqué, P., Arnold, L., Giacalone, S., Theissen, C. A., Aganze, C. A, Burgasser, A. J., Collins, K., Shporer, A., Barkaoui, K., Ghachoui, M., Howell, S. B., Lamman, C., Demangeon, O. D. S., Burdanov, A., Cadieux, C., Chouqar, J., Collins, K. I. Cook, N. J., Delrez, L., Demory, B. O., Doyon, R., Dransfield, G., Dressing, C. D., Ducrot, E., Fan, J., Garcia, L., Gill, H., Gillon, M., Gnilka, C. L. Gómez Maqueo Chew, Y., Günther, M. N., Henze, C. E., Huang, C. X., Jehin, E., Jensen, E. L. N., Lin, Z., Manset, N., McCormac, J., Murray, C. A., Niraula, P., Pedersen, P. P., Pozuelos, F. J., Queloz, D., Rackham, B. V., Savel, A. B., Schanche, N., Schwarz, R. P., Sebastian, D., Thompson, S., Timmermans, M., Triaud, A. H. M. J., Vezie, M., Wells, R. D., de Wit, J., Ricker, G. R., Vanderspek, R., Latham, D. W., Seager, S., Winn, J. N., Jenkins, J. M., "TESS discovery of a sub-Neptune orbiting a mid-M dwarf TOI-2136," Monthly Notices of the Royal Astronomical Society, 514, 4120, Aug 2022.
- B20 Aganze, C., Burgasser, A. J., Malkan, M., Theissen, C. A., Tejada Arevalo, R. A., Hsu, C., Bardalez Gagliuffi, D. C., Ryan, R. E., Holwerda, B., "Beyond the Local Volume II: Population Scaleheights and Ages of Ultracool Dwarfs in Deep HST/WFC3 Parallel Fields," *Astrophysical Journal*, 934, 73, Jul 2022.
- B19 Tamburo, P., Muirhead, P. S., McCarthy, A. M., Hart, M., Gracia, D., Vos, J. M., Bardalez Gagliuffi, D. C., Faherty, J. K., **Theissen, C. A.**, Agol, E., Skinner, J. N., Sagear, S., "The Perkins INfrared Exosatellite Survey (PINES) I. Survey Overview, Reduction Pipeline, and Early Results," *Astronomical Journal*, 163, 253, Jun 2022.

B18 Abdurro'uf, Accetta, K., Aerts, C., Silva Aguirre, V., Ahumada, R., Ajgaonkar, N., Filiz Ak, N., Alam, S., Allende Prieto, C., Almeida, A., Anders, F., Anderson, S. F. Andrews, B. H., Anguiano, B., Aquino-Ortiz, E., Aragon-Salamanca, A., Argudo-Fernandez, M., Ata, M., Aubert, M., Avila-Reese, V., Badenes, C., Barba, R. H., Barger, K., Barrera-Ballesteros, J. K. Beaton, R. L., Beers, T. C., Belfiore, F., Bender, C. F., Bernardi, M., Bershady, M. A., Beutler, F., Moni Bidin, C., Bird, J. C., Bizyaev, D., Blanc, G. A., Blanton, M. R., Boardman, N. F., Bolton, A. S., Boquien, M., Borissova, J., Bovy, J., Brandt, W. N., Brown, J., Brownstein, J. R., Brusa, M., Buchner, J., Bundy, K., Burchett, J. N., Bureau, M., Burgasser, A. J., Cabang, T. K., Campbell, D., Cappellari, M., Carlberg, J. K., Carneiro Wanderley, F., Carrera, R., Cash, J., Chen, Y., Chen, W., Cherinka, B., Chiappini, C., Ider Chitham, J., Choi, S., Chojnowski, D., Chung, H., Clerc, N., Cohen, R. E., Comerford, J. M., Comparat, J., da Costa, L., Covey, K., Crane, J. D., Cruz-Gonzalez, I., Culhane, C., Cunha, K., Sophia Dai, Y., Damke, G., Darling, J., Davidson Jr., J. W., Davies, R., Dawson, K., De Lee, N., Diamond-Stanic, A. M., Cano-Diaz, M., Dominguez Sanchez, H., Donor, J., Duckworth, C., Dwelly, T., Eisenstein, D. J., Elsworth, Y. P., Emsellem, E., Eracleous, M., Escoffier, S., Fan, X., Farr, E., Feng, S., Fernandez-Trincado, J. G., Feuillet, D., Filipp, A., Fillingham, S. P., Frinchaboy, P. M., Fromenteau, S., Galbany, L., Garcia, R. A., Garcia-Hernandez, D. A., Ge, J., Geisler, D., Gelfand, J., Geron, T., Gibson, B. J., Goddy, J., Godoy-Rivera, D., Grabowski, K., Green, P. J., Greener, M., Grier, C. J., Griffith, E., Guo, H., Guy, J., Hadjara, M., Harding, P., Hasselquist, S., Hayes, C. R., Hearty, F., Hernndez, J., Hill, L., Hogg, D. W., Holtzman, J. A., Horta, D., Hsieh, B., Hsu, C., Hsu, Y., Huber, D., Huertas-Company, M., Hutchinson, B., Seong Hwang, H., Ibarra-Medel, H. J., Ilha, G. S., Imig, J., Jaekle, M., Jayasinghe, T., Ji, X., Johnson, J. A., Jones, A., Jonsson, H., Katkov, I., Khalatyan, A., Kinemuchi, K., Kisku, S., Knapen, J. H., Kneib, J., Kollmeier, J. A., Kong, M., Kounkel, M., Kreckel, K., Krishnarao, D., Lacerna, I., Lane, R. R., Langgin, R., Lavender, R., Law, D. R., Lazarz, D., Leung, H. W., Leung, H., Lewis, H. M., Li, C., Li, R., Lian, J., Liang, F., Lin, L., Lin, Y., Lin, S., Lintott, C., Long, D., Longa-Pena, P., Lopez-Coba, C., Lu, S., Lundgren, B. F., Luo, Y., Mackereth, J. T., de la Macorra, A., Mahadevan, S., Majewski, S. R., Manchado, A., Mandeville, T., Maraston, C., Margalef-Bentabol, B., Masseron, T., Masters, K. L., Mathur, D., McDermid, R. M., Mckay, M., Merloni, A., Merrifield, M., Meszaros, S., Miglio, A., Di Mille, F., Minniti, D., Minsley, R., Moon, J., Mosser, B., Mulchaey, J., Muna, D., Munoz, R. R., Myers, A. D., Myers, N., Nadathur, S., Nair, P., Nandra, K., Neumann, J., Newman, J. A., Nidever, D. L., Nikakhtar, F., Nitschelm, C., O'Connell, J. E., Garma-Oehmichen, L., de Oliveira, G., Olney, R., Oravetz, D., Ortigoza-Urdaneta, M., Osorio, Y., Otter, J., Pace, Z. J., Padilla, N., Pan, K., Pan, H., Parikh, T., Parker, J., Peirani, S., Pena Ramirez, K., Penny, S., Percival, W. J., Perez-Fournon, I., Pinsonneault, M., Poidevin, F., Jacob Poovelil, V., Price-Whelan, A. M., de Andrade Queiroz, A., Jordan Raddick, M., Ray, A., Barboza Rembold, S., Riddle, N., Riffel, R. A., Riffel, R., Rix, H., Robin, A. C., Antonio Santana Rojas, F., Roman-Lopes, A., Roman-Zuniga, C., Rose, B., Ross, A. J., Rossi, G., Rubin, K. H. R., Salvato, M., Sanchez-Gallego, J. R., Sanderson, R., Sarceno, E., Sarmiento, R., Sayres, C., Sazonova, E., Schaefer, A. L., Schlegel, D. J., Schneider, D. P., Schultheis, M., Schwope, A., Serenelli, A., Serna, J., Shao, Z., Shapiro, G., Sharma, A., Shen, Y., Shetrone, M., Shu, Y., Simon, J. D., Skrutskie, M. F., Smethurst, R., Smith, V., Sobeck, J., Spoo, T., Sprague, D., Stark, D. V., Stassun, K. G., Steinmetz, M., Stello, D., Stone-Martinez, A., Storchi-Bergmann, T., Stringfellow, G. S., Stutz, A., Su, Y., Taghizadeh-Popp, M., Talbot, M. S., Tayar, J., Telles, E., Teske, J., Thakar, A., Theissen, C. A., Thomas, D., Tkachenko, A., Tojeiro, R., Hernandez Toledo, H., Troup, N. W., Trump, J. R., Trussler, J., Turner, J., Tuttle, S., Unda-Sanzana, E., Vazquez-Mata, J. A., Valentini, M., Valenzuela, O., Vargas-Gonzalez, J., Vargas-Magana, M., Alfaro, P. V., Villanova, S., Vincenzo, F., Wake, D., Warfield, J. T., Washington, J. D., Weaver, B. A., Weijmans, M., Weinberg, D. H., Weiss, A., Westfall, K. B., Wild, V., Wilde, M. C., Wilson, J. C., Wilson, R. F., Wilson, M., Wolf, J., Wood-Vasey, W. M., Yan, R., Zamora, O., Zasowski, G., Zhang, K., Zhao, C., Zheng, Z., Zhu, K., "The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar and APOGEE-2 Data," Astrophysical Journal Supplement Series, 259, 35, Apr 2022.

B17 Aganze, C., Burgasser, A. J., Malkan, M., Theissen, C. A., Tejada Arevalo, R. A., Hsu, C., Bardalez Gagliuffi, D. C., Ryan, R. E., Holwerda, B., "Beyond the Local Volume: Surface Densities of Ultracool Dwarfs in Deep HST/WFC3 Parallel Fields," *Astrophysical Journal*, 924, 114 Jan 2022.

- B16 Hsu, C., Burgasser, A. J., Theissen, C. A., Gelino, C. R., Birky, J., Diamant, S. J. M., Bardalez Gagliuffi, D. C., Aganze, C., Blake, C. H., "The Brown Dwarf Kinematics Project (BDKP). V. Radial and Rotational Velocities of T Dwarfs from Keck/NIRSPEC High-Resolution Spectroscopy," Astrophysical Journal, 257, 45, Dec 2021.
- B15 Faherty, J. K., Gagné, J., Popinchalk, M., Vos, J. M., Burgasser, A. J., Schumann, J., Schneider, A. C., Kirkpatrick, J. D., Meisner, A. M., Kuchner, M. J., Bardalez Gagliuffi, D. C., Marocco, F., Caselden, D., Gonzales, E. C., Rothermich, A., Casewell, S. L., Debes, J. H., Aganze, C., Ayala, A., Hsu, C., Cooper, W. J., Smart, R. L., Gerasimov, R., Theissen, C. A., The Backyard Worlds: Planet 9 Collaboration, "A Wide Planetary Mass Companion Discovered Through the Citizen Science Project Backyard Worlds: Planet 9," Astrophysical Journal, 923, 48, Dec 2021.
- B14 Schneider, A. C., Meisner, A. M., Gagné, J., Faherty, J. K., Marocco, F., Burgasser, A. J., Kirkpatrick, J. D., Kuchner, M. J., Goodman, S. J., Gramaize, L., Rothermich, A., Brooks, H., Vrba, F. J., Bardalez Gagliuffi, D. C., Caselden, D., Cushing, M. C., Gelino, C. R., Line, M. R., Casewell, S. L., Debes, J. H., Aganze, C., Ayala, A., Gerasimov, R., Gonzales, E. C., Hsu, C., Kiman, R., Popinchalk, M., Theissen, C. A., The Backyard Worlds: Planet 9 Collaboration, "Ross 19B: An Extremely Cold Companion Discovered via the Backyard Worlds: Planet 9 Citizen Science Project," Astrophysical Journal, 920, 140, Nov 2021.
- Wells, R. D., Rackham, B. V., Schanche, N., Petrucci, R., Gómez Maqueo Chew, Y., Demory, B.-O., Burgasser, A. J., Burn, R., Pozuelos, F. J., Günther, M. N., Sabin, L., Schroffenegger, U., Gómez-Munoz, M. A., Stassun, K. G., Van Grootel, V., Howell, S. B., Sebastian, D., Triaud, A. H. M. J., Apai, D., Plauchu-Frayn, I. Guerrero, C. A., Guillen, P. F., Landa, A., Melgoza, G., Montalvo, F., Serrano, H., Riesgo, H., Barkaoui, K., Bixel, A., Burdanov, A., Chen, W. P., Chinchilla, P., Collins, K. A., Daylan, T., de Wit, J., Delrez, L., Dévora-Pajares, M., Dietrich, J., Dransfield, G., Ducrot, E., Fausnaugh, M., Furlan, E., Gabor, P., Gan, T., Garcia, L., Ghachoui, M., Giacalone, S., Gibbs, A. B., Gillon, M., Gnilka, C., Gore, R., Guerrero, N., Henning, T., Hesse, K., Jehin, E., Jenkins, J. M., Latham, D. W., Lester, K., McCormac, J., Murray, C. A., Niraula, P., Pedersen, P. P., Queloz, D., Ricker, G., Rodriguez, D. R., Schroeder, A., Schwarz, R. P., Scott, N., Seager, S., Theissen, C. A., Thompson, S., Timmermans, M., Twicken, J. D., Winn, J. N., "A large sub-Neptune transiting the thick-disk M4V TOI-2406," Astronomy & Astrophysics, 653, A97 Sep 2021.
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- B10 Wilcomb, K. K., Konopacky, Q. M., Barman, T. S., Theissen, C. A., Ruffio, J.-B., Brock, L., Macintosh, B., Marois, C., "Moderate-Resolution K-Band Spectroscopy of Substellar Companion κ Andromedae b," Astronomical Journal, 160, 270, Nov 2020.

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 Feb 2019.
- B5 Gagné, J., Allers, K. N., **Theissen, C. A.**, Faherty, J. K., Bardalez Gagliuffi, D. C., Artigau, É., "2MASS J13243553+6358281 is an Early T-Type Planetary-mass Object in the AB Doradus Moving Group," *Astrophysical Journal Letters*, 854, L27, Feb 2018.
- B4 Favia, A., West, A. A., **Theissen, C. A.**, "Runaway M Dwarf Candidates from the Sloan Digital Sky Survey," *Astrophysical Journal*, 813, 26, Nov 2015.
- B3 Arcavi, I., Gal-Yam, A., Sullivan, M., Pan, Y. C., Cenko, S. B., Ofek, E. O., De Cia, A., Yan, L., Yang, C. W., Howell, D. A., Tal, D., Kulkarni, S. R., Tendulkar, S. P., Tang, S., Xu, D., Sternberg, A., Cohen, J. G., Bloom, J. S., Nugent, P. E., Kasliwal, M. M., Perley, D. A., Quimby, R. M., Miller, A. A., Theissen, C. A., Laher, R. R., "A Continuum of H- to He-rich Tidal Disruption Candidates With a Preference for E+A Galaxies," Astrophysical Journal, 793, 38, Sep 2014.
- Sfiligoi, I., Würthwein, F., **Theissen, C. A.**, Dost, J. M., "Scalability of network facing services used in the Open Science Grid," *Journal of Physics: Conference Series*, 331, 062023, Dec 2011.
- Quimby, R. M., Kulkarni, S. R., Kasliwal, M. M., Gal-Yam, A., Arcavi, I., Sullivan, M., Nugent, P., Thomas, R., Howell, D. A., Nakar, E., Bildsten, L., Theissen, C. A., Law, N., Dekany, R., Rahmer, G., Hale, D., Smith, R., Ofek, E. O., Zolkower, J., Velur, V., Walters, R., Henning, J., Bui, K., McKenna, D., Poznanski, D., Cenko, S. B., Levitan, D., "Hydrogen-poor superluminous stellar explosions," *Nature*, 474, 487, Jun 2011.

PREPRINTS & OTHERS

- C8 <u>Desai, M., Draxl Giannoni, J. D., Dunning, C., McDermott, L., Aganze, C., Theissen, C. A.,</u> Burgasser, A. J., "Identifying Ultracool Binary Systems using Machine Learning Methods," *Research Notes of the American Astronomical Society*, 6, 151, Jan 2023.
- C7 Theissen, C. A., Burgasser, A. J., Martin, E. C., Cushing, M. C., Konopacky, Q. M., McLean, I. S., Hsu, C., Bardalez Gagliuffi, D. C., Schneider, A. C., Kuchner, M. J., Faherty, J. K., Beichman, C. A., Miles, B., Skemer, A., Logsdon, S. E., Meisner, A. M., Kirkpatrick, J. D., "Keck NIRES Spectral Standards for L, T, & Y Dwarfs," *Research Notes of the American Astronomical Society*, 6, 151, Jul 2022.
- C6 Low, R., Burgasser, A. J., Reylé, C., <u>Gerasimov, R., Hsu, C.</u>, <u>Theissen, C. A.</u>, "Spectroscopic Confirmation of an M6 Dwarf Companion to the Nearby Star BD-08 2582," *Research Notes of the American Astronomical Society*, 5, 26, Feb 2021.

- C5 Theissen, C. A., Bardalez Gagliuffi, D. C., Faherty, J. K., Gagné, J., Burgasser, A. J., "WISE J135501.90-825838.9 is a Nearby, Young, Extremely Low-mass Substellar Binary," *Research Notes of the American Astronomical Society*, 4, 67, May 2020.
- C4 Muirhead, P. S., Skinner, J. N., Radigan, J., Triaud, A., Theissen, C. A., Bardalez Gagliuffi, D. C., Tamburo, P., Burgasser, A. J., Faherty, J. K., Stephens, D., "Searching for Exosatellites Orbiting L and T Dwarfs: Connecting Planet Formation to Moon Formation and Finding New Temperate Worlds," *Bulletin of the American Astronomical Society*, Astro2020 White Paper, 2019.
- C3 Dupuy, T. J., Kraus, A. L., **Theissen, C. A.**, Bardalez Gagliuffi, D. C., Burgasser, A. J., Girard, J., Gizis, J., "Establishing an Empirical Substellar Sequence to Planetary Masses," *Bulletin of the American Astronomical Society*, Astro2020 White Paper, 2019.
- C2 Kirkpatrick, J. D., Abdurrahman, F., Best, W. J., Dupuy, T. J., Faherty, J. K., Henderson, C. B., Marocco, F., Mróz, P., Sahlmann, J., Smart, R. L., Theissen, C. A., Wright, E. L., "The Need for Infrared Astrometry of Brown Dwarfs in the Post-Gaia Era," *Bulletin of the American Astronomical Society*, Astro2020 White Paper, 2019.
- C1 Burgasser, A. J., **Theissen, C. A.**, Bardalez Gagliuffi, D. C., Schlawin, E., "Identification of WISE J000100.45+065259.6 as an M8.5+T5 Spectral Binary Candidate," *Research Notes of the American Astronomical Society*, 1, 47, Dec 2017.

CONFERENCE PROCEEDINGS

- D4 Wilcomb, K. K., Konopacky, Q. M., Barman, T., Theissen, C. A., Brock, L. S., Macintosh, B., Ruffio, J. B., Marois, C., "Moderate Resolution Spectroscopy of Directly Imaged Planets," *Extreme Solar Systems IV, Bulletin of the American Astronomical Society*, 2019.
- D3 Burgasser, A. J., **SPLAT Development Team**, "The SpeX Prism Library Analysis Toolkit (SPLAT): A Data Curation Model," *3rd International Workshop on Spectral Stellar Libraries*, 14, 7-22, Oct 2017.
- D2 Chakrabarti, S., Baumgardner, J., Dahlgren, H., **Theissen, C. A.**, Cook, T., "Laboratory and Field tests of a High Throughput and Multi-slit Imaging Spectrograph (HiT&MIS)," *39th COSPAR Scientific Assembly*, 293, Feb 2016.
- D1 Sfiligoi, I., Würthwein, F. and **Theissen, C. A.**, "Using Condor Glideins for Distributed Testing of Network Facing Services," *Third International Joint Conference on Computational Science and Optimization*, 327-331, May 2010.

PRESENTATIONS & POSTERS

"Using the Smallest Stars to Explore Large-scale Habitability within the Milky Way Galaxy," *Notre Dame Astrophysics Seminar* [Invited Talk], Nov 2022.

Carnegie EPL Seminar [Invited Talk], Feb 2022.

UCSD Scripps IGPP Seminar [Invited Talk], Feb 2022.

UCSD Physics Colloquium [Invited Talk], Jan 2021.

"The Three Dimensional Kinematics of the Low-mass Population within the ONC Core," *NASA Hubble Symposium* [Talk], Nov 2021.

"Investigating Spectral Peculiarities in the Lowest-mass Planet Hosts," AAS 237 (Winter Meeting) [Talk], Jan 2021.

"Spectral Peculiarities in Ultracool Dwarf Planet Hosts," *NASA SOFIA Colloquium* [Invited Talk], Nov 2020.

"The Dos and Don'ts of Writing a Successful (Fellowship) Application," *UCSD IDEA Center Postdoc Talk* [Invited Talk], Oct 2020.

"The Connection Between Ultracool Dwarf Planet Hosts and Surface Gravity," NASA Hubble Fellowship Program Symposium [Talk], Sep 2020.

"3-D Kinematics in the ONC Core," *Keck Science Meeting* [Poster], Sep 2020.

"Supporting BIPOC Scientists through NHFP-organized Mentorship and Outreach," *NASA Hubble Fellowship Program Symposium* [Talk], Sep 2020.

"Multiplicity at the Bottom of the Main Sequence,"

San Diego State University Astronomy & Physics Colloquium [Invited Talk], Nov 2019.

"Planetary Collisions around Low-mass Stars: Constraining the Timescale for Collisions and Testing the Origin of the Kepler Dichotomy,"

NASA Hubble Fellowship Program Symposium [Talk], Oct 2019.

"Cooler than Gaia: Parallaxes of Ultracool Objects with WISE," UC San Diego Astrophysics Seminar [Invited Talk], May 2018.

"Low-mass Stars with Extreme Mid-Infrared Excesses: Potential Signatures of Planetary Collisions," AAS 231 (Winter Meeting) [Talk], 2018.

"Exoplanets and the Search for Life around Low-mass Stars," *Mesa College STEM Lecture Series* [Invited Talk], 2017.

"Cool Stars with Extreme Mid-Infrared Excesses: Potential Tracers of Planetary Collisions," *AAS 228 (Summer Meeting) + Cool Stars 19* [Poster], 2016.

"The Motion Verified Red Stars (MoVeRS) Catalog and Low-Mass Field Stars with Warm Dust," *AAS 227 (Winter Meeting)* [Poster], 2016.

"The Occurrence of Warm Dust around Cool Stars," *UC San Diego CASS Journal Club* [Talk], 2015.

"WISE Infrared Excess Detections for SDSS M Dwarfs: Cool Field Stars with Evidence of Warm Circumstellar Material,"

AAS 224 (Summer Meeting) + Cool Stars 18 [Poster], 2014.

"SDSS M dwarfs with WISE Signatures of Infrared Excess: Evidence of Warm Circumstellar Material in Low-Mass Field Populations,"

AAS 223 (Winter Meeting) [Poster], 2014.

"GlideTester - A framework for distributed testing of network-facing services using Condor glideins on Grid resources,"

TeraGrid Conference [Poster], 2010.

"PyTracker: Automated Spectroscopic Target Acquisition using Cross-Correlation with Existing Astrometric Positions,"

University of California San Diego Undergraduate Research Conference [Talk], 2010.

"Automated Cross-Correlative Spectroscopic Analysis of the Optical Transient Sky via Images Acquired using the Palomar Transient Factory,"

California Institute of Technology Summer Seminar [Poster], 2009.

PRESS COVERAGE

Ultrashort Period Ultracool Binary

- "Ultracool Dwarf Binary Stars Break Records" Keck Observatory, Feb 2023.
- "Record breakers! Super-close dwarf stars orbit each other in less than a day" *Space.com*, Feb 2023.
- "Astronomers spot a tiny binary" *Sky & Telescope*, Jan 2023.
- "Astronomers Discover Two Invisible Stars Spinning Around Each Other at Breakneck Speed" *Gizmodo*, Jan 2023.
- "Binary Dwarf Stars Found Orbiting Each Other Every 20 Hrs. They Were Once Almost Touching" *Universe Today*, Jan 2023.

Extremely Low-mass Binary

• "WISE J135501.90-825838.9 is a young, extremely low-mass substellar binary, study finds" *Phys.org*, Mar 2020.

Planetary Collisions

• "Some planets ripe for life may be doomed by billions of years of violent collisions" *Astronomy Magazine*, Jul 2016.

RESEARCH COLLABS

Institutional Representative for UCSD on the LSST-DA Board

Member of the LSST Stars, Milky Way & Local Volume Science Collaboration

Member of the Wide-Field Spectroscopic Telescope Science Team

Member of the Perkins INfrared Exosatellite Survey (PINES)

SERVICE & OUTREACH

Research Affairs Advisory Committee - Member,

Oct 2022-Present

UC San Diego

NHFP DEI Session - Presenter,

Nov 2021

NASA Hubble Fellowship Program Symposium

2021 Chancellor's Award Review Committee - Reviewer,

Aug 2021

UC San Diego

Coalition NSF Advocacy Day - Advocate,

Jun 2021

Remote Meetings

UCSD Spring STEM Transfer Seminar 2021 - Panelist,

May 2021

"Traversing Postdocs and Industry Positions",

UC San Diego

UCSD Career Center - Panelist,

Mar 2021

"PhD Career Summit: Applying to Postdoc Positions",

UC SAN DIEGO

UCSD IDEA Center - Postdoctoral Scholarly Talks,

Oct 2020

"Developing a Successful Ford Fellowship Application",

UC San Diego

Summer Training Academy for Research Success (STARS)/ California-Arizona Minority Partnership for Astronomy

2018, 2019, 2020

Research and Education (CAMPARE), UC SAN DIEGO

High Tech High Internship, UC SAN DIEGO

Jan 2020

Career Paths Session - Chair/Panelist,

Oct 2019

NASA Hubble Fellowship Program Symposium

Institute for Scientist & Engineer Educators (ISEE) Professional Development Program (PDP), UC SANTA CRUZ/UC SAN DIEGO	2018
InterTribal Youth/Young Native Scholars Summer Program, UC San Diego	Jul 2016
Cal-Bridge Workshop on Graduate School, UC SAN DIEGO	May 2016
STEM Fest, Vista High School	Mar 2016
High School Science Olympiad Coach, University High School	Oct 2015-Feb 2016
Chambliss Award Judge, American Astronomical Society Meeting 227	Jan 2016
Program on Student Success in Engineering (POSSE), University of California San Diego/Gompers Preparatory Academy	Sep 2015–Jun 2016
Upward Bound, Boston University	2013-2015
Research in Science and Engineering (RISE), Boston University	2013-2015
U-Design, Boston University, Department of Engineering	Jul 2014
Academy of the Pacific Rim Astronomy Day, Boston University	Nov 2012
Graduate Women in Science and Engineering (GWISE) - "How to Find a Fellowship" Panelist, Boston University	Sep 2012
 Other: Co-organizer of the NASA Hubble Fellowship Program Anti-Racism Initiative Lead for the Mentoring and Outreach Subgroup OPTICON-Radionet Pilot TAC Subject-matter expert reviewer in a NASA peer review Panelist for a NASA review Panelist for a NASA review Panelist for a NASA review Referee: The Astrophysical Journal (ApJ) The Astrophysical Journal Supplement Series (ApJS) Monthly Notices of the Royal Astronomical Society (MNRAS) 	2020–2022 2023 2020, 2021, 2022 2023 2021 2018–Present
PHD STUDENTS	
Preethi Karpoor, UCSD Aneesh Baburaj, UCSD Lingfeng Wei, UCSD	2022–Present 2021–Present 2020–Present

MENTORSHIP

PHD STUDENTS	
Preethi Karpoor, UCSD	2022-Present
Aneesh Baburaj, UCSD	2021-Present
Lingfeng Wei, UCSD	2020-Present
Christian Aganze, UCSD (→ Science Fellow @ Stanford)	2018–2023
Kielan Wilcomb, UCSD (→ Giacconi Fellow @ STScI)	2018–2022
Chih-Chun Hsu, UCSD (→ Postdoc @ Northwestern)	2018–2022

	UNDERGRAD	
	Jackie Scullin, UCSD So Hirota, UCSD	2023–Present 2023–Present
	Lexu Zhao, UCSD	2022–Present
	Tianxing Zhou, UCSD	2022–Present
	Malina Desai, UCSD (→ Carnegie post-bac)	2022-2023
	Chelsea Adelman, Cal Poly Pomona (Cal-Bridge Scholar → UCI grad)	2020
	Roberto Tejada Arevalo, CSULA (→ Princeton grad)	2018–2020
	Dennis H. Calderon, CSUEB (\rightarrow OSU grad) Russell Van Linge, UCSD (\rightarrow Scripps Health)	2018–2019 2018
	Jessica Birky, UCSD (\rightarrow NSF & Univ. of Washington grad)	2016–2019
	Guillaume Shippee, UCB (→ Qualcomm)	2016
	HIGH SCHOOL	
	Sven Andersen, Intern	2022
	Angeli Solis, Intern (→ UCSD undergrad)	2020
	Victor Zhang, BU RISE (Princeton → U. Chicago grad)	2015
	Katie Melbourne, BU RISE (Yale \rightarrow Ball Aerospace) Isabella Trierweiler, BU RISE (Yale \rightarrow UCLA grad)	2014 2013
	Isabella Therweller, DO ROSE (Tale -> OCLA grad)	
GRANTS &	Characterizing the Lowest-mass Planet Hosts and Investigating the Potential Link	2024–2026
FUNDING	between Stellar Surface Gravity and Planet Occurrence PI, NASA XRP, \$618k	
	A Magnitude Limited Sample of M dwarfs to Study the Super-Earth Rate	2022-2023
	across the Fully Convective Boundary	
	PI, TESS Cycle 5 Guest Investigator, \$70k	
	Recalibrating Fundamental Parameters for Low-Mass Stars for Current	2022-2023
	and Future Planet Hunting Surveys	
	PI, XSEDE Research allocation PHY220048, 8,314,035 SUs (~\$100k)	
	Recalibrating the Ultracool Dwarfs in the Transiting	2022–2023
	Exoplanet Survey Satellite Input Catalog	
	PI, XSEDE Startup allocation PHY200052, 100,000 SUs (~\$1k)	
	Infrared Gold: A Student-Centered Program to Extract, Analyze, and	2022–2025
	Disseminate 20 Years of IRTF/SpeX Point-Source Spectroscopy	
	Co-I, NASA ADAP (PI: Adam Burgasser), \$666,511	
	Simulating Ultracool Dwarf Populations in LSST DP0 and in the	2022
	Main LSST Survey Co-I, LSST Kickstarter Grant (PI: Adam Burgasser), \$19k	
	A Search for Distant Ultracool Dwarfs in Hubble Space	2020-2021
	Telescope Spectral Surveys	
	PI, XSEDE Startup allocation PHY200052, 50,000 SUs (~\$1k)	
	Planetary Collisions around Low-Mass Stars: Constraining the Timescale	2019-2022
	for Collisions and Testing the Origin of the Kepler Dichotomy PI, NASA Sagan Postdoctoral Fellowship, \$347k	
	-	
	Spectroscopic Analysis of Ultracool Dwarfs Coll SDSS FAST (Bl. Adam Burgasser) \$60K	2016–2017
	Co-I, SDSS FAST (PI: Adam Burgasser), \$60K	
	Low-mass Field Stars with Infrared Excesses: Possible	2016–2017
	Signatures of Planetary Collisions Co. L. NASA, ADAD, (DI. Androyy Woots, Admin DI. Dhil Muighood), \$125K	
	Co-I, NASA ADAP (PI: Andrew West; Admin PI: Phil Muirhead), \$125K	

TELESCOPE TIME AWARDED	 Keck I & II 10-meters PI: "Abundances and Kinematics of Ultracool Dwarf Planet Host Twin Stars" 4.5 nights (NIRSPEC) 	2022–2024
	Co-I: "Keck/NIRSPEC Cadence Program: NIRSPEC Observations of Ultrashort Period Ultracool Binaries" • 0.8 nights (NIRSPEC)	2024
	Co-I: "Resolving Elemental Abundances of a Remarkable Hierarchical Exoplanet-host System Observed by a JWST ERS Program" • 1 night (NIRSPAO)	2024
	Co-I: "Unresolved Binaries in the Core of the Orion Nebula Cluster" • 1 night (NIRSPAO)	2023
	Co-I: "The Old and the Quick: A Search for Halo Brown Dwarfs with Backyard Worlds" • 1 night (NIRES)	2022
	Co-I "Galactic Archaeology with Ultracool Dwarfs: Kinematic Structure Among L Dwarfs" • 3.5 nights (NIRSPEC)	2021–2022
	PI: "Resolving Tertiary Components of Wide, Very Low-mass Binaries with AO"3 nights (NIRC2)	2020–2021
	Co-I: "Searching for Our Coldest Young Neighbors with Backyard Worlds" • 10 nights (NIRES)	2018–2021
	Co-I "Testing Pre-Main Sequence Evolutionary Models in the First 10 Myr" • 2.5 nights (OSIRIS)	2020–2021
	Co-I "Completing the Kinematic Census of Local L and T Dwarfs" • 5.5 nights (NIRSPEC)	2019–2020
	Co-I: "Secondary Radial Velocities in Short-Period Star/Brown Dwarf Spectral Binaries" • 0.5 nights (NIRSPEC)	2019–2020
	Co-I: "Dynamics of the Orion Nebula Cluster: Mass-Dependent Kinematics" • 6 nights (NIRSPAO)	2019–2020
	 PI: "Characterizing Low-mass Binaries and Searching for Hierarchical Triples: NIR Spectra of Low-mass, Wide, Common Proper Motion Pairs" 1 night (NIRES) 	2019
	CHARA Array PI: "Investigating Radius Inflation in the Lowest Mass Planet Hosts: CHARA Observations of Teegarden's Star" • 4 nights (CLASSIC)	2020
	Gemini North & South 8-meters PI: "High-resolution Near-infrared Observations of a Planetary-mass Binary" • 8 hours (IGRINS)	2023–2024
	PI: "Abundances and Kinematics of Ultracool Dwarf Planet Host Twin Stars"10.7 hours (IGRINS)	2022–2023
	Co-I: "The BASS-Ultracool Search for Isolated Giant Exoplanet Analogs" • 27 hours (GNIRS Spectrograph)	2018
	Co-I: "Confirming a new L/T transition planetary-mass object in AB Doradus" • Fast turnaround single object observation (GNIRS Spectrograph)	2018
	James Webb Space Telescope 6.5-meter Co-I: "Direct Imaging Spectroscopy of Two Jovian Exoplanets: Characterization of the TYC 8998-760-1 Multi-Planetary System" ◆ 5.2 hours (NIRSpec and MIRI)	2021

 LDT 4.3-meter PI: "Pre-main Sequence or Field Stars?: Searching for Traces of Youth in Low-mass Stars with Extreme Mid-infrared Excesses" 2 nights (DeVeny Optical Spectrograph) 	2016
CFHT 3.6-meter Co-I: "Precision NIR RVs for WISE J1624-3212: A Nearby, Potentially Unresolved Low-mass Binary" • 2.4 hours (SPIRou NIR Spectrograph)	2021
 IRTF 3.2-meter PI: "Characterizing the Ultracool TESS Targets: Investigating the Role of Gravity in Planet Hosts" 30 nights (SpeX NIR Spectrograph) 	2020–2024
Co-I: "Characterizing Cool Hosts of Candidate Transiting Exoplanets with IRTF/SpeX" • 4 nights (SpeX NIR Spectrograph)	2024
Co-I: "Homogeneous stellar characterization for M dwarfs with confirmed giant planets" • 1 night (SpeX NIR Spectrograph)	2023
Co-I: "Radial Velocity Monitoring of an Exceptionally Short-Period Very Low Mass Binary" • 6 nights (iSHELL Spectrograph)	2022–2023
Co-I: "Searching for Hierarchical Triples in Wide, Common Proper Motion, Very Low-Mass Binaries" • 4.5 nights (SpeX NIR Spectrograph)	2018–2020
Co-I: "Training the Cannon: Calibrating APOGEE Observations of Ultracool Dwarfs" • 6 nights (iSHELL Spectrograph)	2018–2020
Co-I: "LaTE-MoVeRS: New Nearby Very Low-Mass Stars and Brown Dwarfs Verified by Proper Motion from SDSS+2MASS+ WISE" • 4.5 nights (SpeX NIR Spectrograph + MORIS)	2017–2019
Shane 3-meter	
 PI: "Optimizing Target Selection of Direct Imaging Planet Campaigns using Accelerating Stars" 7 nights (ShARCS AO NIR Imager) 	2022–2023
 PI: "AO Observations of Overluminous members of Wide, Low-mass Binaries: Searching for Hierarchical Triples" 17 nights (ShARCS AO NIR Imager) 	2019–2021
Co-I: "Optical Spectroscopy of LaTE-MoVeRS M and L Dwarfs" • 75 nights (Kast Optical Spectrograph)	2017–2021
SDSS 2.5-meter Co-I: "APOGEE-2 Survey of the Lowest-mass Stars and Brown Dwarfs: Composition, Chemistry and Companions" ● ~500 APOGEE fibers awarded for ancillary science call	2017–2018
Hubble Space Telescope 2.4-meterCo-I: Cycle 30 - "Completing the stellar census of Westerlund 1"7 orbits (WFC3)	2022
APF 2.4-meter Co-I: "Abundances of Directly Imaged Planet Host Stars" • 1.5 nights (Levy Optical Spectrograph)	2021–2022

	Co-I: "Calibrations of Chemical Abundances of Ultracool Dwarfs in Wide Binary Systems with Optical High-Resolution Spectroscopy of G-Type Primaries" • 1 nights (Levy Optical Spectrograph)	2022
	Co-I: "Benchmarking Chemical Abundances of Ultracool Dwarfs in Binary Systems with Optical Spectroscopy of Bright AFGK Primaries" • 2.5 nights (Levy Optical Spectrograph)	2022
	Co-I: "Radial Velocity Monitoring of WISE J1624-3212: A Potential Low-mass Binary Hiding at 18 pc" • 1 nights (Levy Optical Spectrograph)	2021
	 Transiting Exoplanet Survey Satellite 4×0.1-meter PI: "A Magnitude Limited Sample of M dwarfs to Study the Super-Earth Rate across the Fully Convective Boundary" GO Cycle 5: 658 short cadence targets 	2022–2023
ADDITIONAL OBSERVING	Keck I 10-meter 3 nights on the optical spectrometer (LRIS).	2009–2010
EXPERIENCE	Keck II 10-meter 4 half-nights on the high-res NIR spectrometer (NIRSPEC) with AO (NIRSPAO).	2018
	Palomar Hale 200-inch 1 night on the optical spectrograph (DBSP).	2009
	CTIO SMARTS 0.9-meter 27 nights on the optical imager.	2014–2016
PROFESSIONAL AFFILIATIONS	American Astronomical Society American Physical Society National Society of Hispanic Physicists National Society of Black Physicists Society for the Advancement of Chicanos and Native Americans in Science	2009–Present 2008–Present 2008–Present 2011–Present 2016–Present
OTHER WORK EXPERIENCE	Booz Allen Hamilton (BAH), San Diego, California, USA Strategic Innovation Group - Lead Data Scientist Co-organizer of the 2019 Kaggle Data Science Bowl Aeronautical Radio, Incorporated (ARINC), San Diego, California, USA	2019
	Analyst/Network Engineer	2337 2011
REFERENCES	Dr. Quinn Konopacky Associate Professor of Astronomy & Astrophysics University of California San Diego 9500 Gilman Drive #0424, La Jolla, California 92093-0424, USA qkonopacky at ucsd.edu +1 (858) 246-0241	

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[CV compiled on 2024-01-26]