

# Chih-Chun “Dino” Hsu

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**CURRENT POSITION**      **Postdoctoral Associate**      September 2022–present  
Center for Interdisciplinary Exploration and Research in Astrophysics,  
Northwestern University, Evanston, IL  
Supervisor: Jason Jinfei Wang

**EDUCATION**      **University of California, San Diego**, La Jolla, CA, USA  
Doctor of Philosophy (Ph.D.) in Physics      August 2016 – September 2022  
Thesis: “Kinematics, Multiplicity, Rotational Dynamics, and Population Properties of Ultracool Dwarfs Inferred from High-Resolution Near-Infrared Spectroscopy”  
Advisor: Adam J. Burgasser

**National Tsing Hua University**, Hsinchu, Taiwan  
Bachelor of Science (B.S) in Physics      September 2010 – June 2014  
GPA: 4.22/4.3; ranked 1<sup>st</sup> out of the graduating class

**RESEARCH INTERESTS**      lowest-mass stars; brown dwarfs; exoplanets; medium-/high-resolution spectroscopy;  
very low-mass binaries; stellar populations; stellar kinematics; stellar rotation; stellar  
and exoplanet atmosphere and abundance

**ACADEMIC HONORS & AWARDS**      **Rodger Doxsey Travel Prize**      June 2022  
AAS 240<sup>th</sup> Meeting, Pasadena, CA  
Awarded for the top 10 (out of 116 entries) graduate students within one year of  
receiving or receipt of their PhD a monetary prize to enable the oral presentation  
of their dissertation research (transferred from the winter AAS 239<sup>th</sup> Meeting).

**Friends of the International Center fellowship**      2020  
UC San Diego, La Jolla, CA  
Awarded for promoting international friendship, understanding, and cooperation.

**Carol and George Lattimer Award for Graduate Excellence**      2019–  
UC San Diego, La Jolla, CA      2020  
Awarded to graduate students in the Divisions of Physical Sciences who seek inter-  
disciplinary approaches to problem-solving and have a strong commitment to  
education, mentorship, and service.

**Physics Chair’s Challenge Award \* 3**      2017, 2018, 2022  
UC San Diego, La Jolla, CA  
Awarded for supporting educational excellence and training for physics students.

**Physics Excellence Award**      2016  
UC San Diego, La Jolla, CA  
Awarded to highly qualified students admitted to the Physics PhD program.

**College of Science Elite Student Award \* 3**      2012–2014  
National Tsing Hua University, Hsinchu, Taiwan

Awarded to the top student of class based on academic achievements.

**Academic Achievement Award \* 5**

2011–2014

National Tsing Hua University, Hsinchu, Taiwan

Awarded to top 5 % of class.

**College of Science Scholarship**

2013

National Tsing Hua University, Hsinchu, Taiwan

Awarded to one student in College of Science based on academic achievements.

**RESEARCH  
COLLABORA-  
TION**

**Member of Keck Planet Imager and Characterizer (KPIC)**

**Member of Backyard Worlds: Planet 9**

**Member of Sloan Digital Sky Survey (SDSS) IV**

**PUBLICATION  
SUMMARY**

50 peer-reviewed publications, 6 first-author (including 1 under review), 2 second-author, and 14 non-refereed publications; h-index=17; !10-index=23 (930+ total citations)

My full publications are available at NASA ADS ORCID: 0000-0002-5370-7494

**FIRST AUTHOR  
PUBLICATIONS**

- [6] **Hsu, C.**; Wang, J. J.; Xuan, J. W.; Zhang, Yapeng; Ruffio, J.-B.; Mawet, D.; Finnerty, L.; Horstman, K.; Cronin, K.; Xin, Y.; Sappéy B.; Echeverri, D.; Jovanovic, N.; Baker, A.; Bartos, R.; Blake, G. A.; Calvin, B.; Cetre, S.; Delorme, J.-R.; Doppmann G.; Fitzgerald, M. P.; Konopacky, Q. M.; Liberman, J.; Lopez, R. A.; Morris, E.; Pezzato, J.; Schofield, T.; Skemer, A.; Wallace, J. K.; Wang, Ji, “*Distinct Rotational Evolution of Giant Planets and Brown Dwarf Companions*”, 2025, submitted to AAS Journals.
- [5] **Hsu, C.**; Wang, J. J.; Blake, G. A.; Xuan, J. W.; Zhang, Yapeng; Ruffio, J.-B.; Horstman, K.; Cronin, K.; Sappéy B.; Xin, Y.; Finnerty, L.; Echeverri, D.; Mawet, D.; Jovanovic, N.; Do Ó, C.; Baker, A.; Bartos, R.; Calvin, B.; Cetre, S.; Delorme, J.-R.; Doppmann G.; Fitzgerald, M. P.; Liberman, J.; Lopez, R. A.; Morris, E.; Pezzato, J.; Schofield, T.; Skemer, A.; Wallace, J. K.; Wang, Ji, “*PDS 70 b Shows Stellar-like Carbon-to-Oxygen Ratio*”, 2024c, ApJL, 977, L47.
- [4] **Hsu, C.**; Burgasser, A. J.; Theissen, C. A.; Birky, J. L.; Aganze, C.; Gerasimov, R.; Schmidt, S. J.; Blake, C. H.; Covey, K. R.; Moreno-Hilario, E.; Gelino, C. R.; Serna J.; Brownstein, J. R.; Cunha K., “*The Brown Dwarf Kinematics Project (BDKP). VI. Ultracool Dwarf Radial and Rotational Velocities from SDSS/APOGEE High-resolution Spectroscopy*”, 2024b, ApJS, 274, 40.
- [3] **Hsu, C.**; Wang, J. J.; Xuan, J. W.; Ruffio, J.-B.; Morris, E.; Echeverri, D.; Xin, Y.; Liberman, J.; Finnerty, L.; Horstman, K.; Sappéy B.; Doppmann G.; Mawet, D.; Jovanovic, N.; Fitzgerald, M. P.; Delorme, J.-R.; Wallace, J. K.; Baker, A.; Bartos, R.; Blake, G. A.; Calvin, B.; Cetre, S.; Lopez, R. A.; Pezzato, J.; Schofield, T.; Skemer, A.; Wang, Ji, “*Rotation and Abundances of the Benchmark Brown Dwarf HD 33632 Ab from Keck/KPIC High-resolution Spectroscopy*”, 2024a, ApJ, 971, 9.
- [2] **Hsu, C.**; Burgasser, A. J.; Theissen, C. A., “*Discovery of the Exceptionally Short Period Ultracool Dwarf Binary LP 413-53AB*”, 2023, ApJL, 945, L6.
- [1] **Hsu, C.**; Burgasser, A. J.; Theissen, C. A.; Gelino, C. R.; Birky, J. L.; Diamant, S. J. M.; Bardalez Gagliuffi, D. C.; Aganze, C.; Blake, C. H.; Faherty, J. K., “*The Brown Dwarf Kinematics Project (BDKP). V. Radial and Rotational Velocities*

of *T Dwarfs From Keck/NIRSPEC High-Resolution Spectroscopy*, 2021, ApJS 257, 45.

## SECOND AND THIRD AUTHOR PUBLICATIONS

- [3] Jerry W. Xuan, **Chih-Chun Hsu**, Luke Finnerty, Jason J. Wang, Jean-Baptiste Ruffio, Yapeng Zhang, Heather A. Knutson, Dimitri Mawet, Eric E. Mamajek, Julie Inglis, Nicole L. Wallack, Marta L. Bryan, Geoffrey A. Blake, Paul Molliere, Neda Hejazi, Ashley Baker, Randall Bartos, Benjamin Calvin, Sylvain Cetre, Jacques-Robert Delorme, Greg Doppmann, Daniel Echeverri, Michael P. Fitzgerald, Nemanja Jovanovic, Joshua Liberman, Ronald A. Lopez, Evan Morris, Jacklyn Pezzato, Ben Sappey, Tobias Schofield, Andrew Skemer, James K. Wallace, Ji Wang, Shubh Agrawal, Katelyn Horstman, “Are these planets or brown dwarfs? Broadly solar compositions from high-resolution atmospheric retrievals of  $\sim 10\text{--}30\text{ M}_{\text{Jup}}$  companions”, ApJ, 970, 71, July 2024
- [2] Evan C. Morris, Jason J. Wang, **Chih-Chun Hsu**, Jean-Baptiste Ruffio, Jerry W. Xuan, Jacques-Robert Delorme, Callie Hood, Marta L. Bryan, Emily C. Martin, Jacklyn Pezzato, Dimitri Mawet, Andrew Skemer, Ashley Baker, Randall Bartos, Benjamin Calvin, Sylvain Cetre, Greg Doppmann, Daniel Echeverri, Luke Finnerty, Michael P. Fitzgerald, Nemanja Jovanovic, Joshua Liberman, Ronald Lopez, Ben Sappey, Tobias Schofield, J. Kent Wallace, Ji Wang, “kappa And b is a fast rotator from KPIC High Resolution Spectroscopy”, AJ, 168, 144, October 2024
- [1] Holwerda, B. W.; **Hsu, Chih-Chun**; Hathi, Nimish; Bisigello, Laura; de la Vega, Alexander; Arrabal Haro, Pablo; Bagley, Micaela; Dickinson, Mark; Finkelstein, Steven L.; Kartaltepe, Jeyhan S.; Koekemoer, Anton M.; Papovich, Casey; Pirzkal, Nor; Cook, Kyle; Robertson, Clayton; Casey, Caitlin M; Aganze, Christian; Pérez-González, Pablo G.; Lucas, Ray A.; Jogee, Shardha; Wilkins, Stephen; Burgarella, Denis; Kirkpatrick, Allison, “Cosmic Evolution Early Release Science Survey (CEERS): Multi-classing Galactic Dwarf Stars in the deep JWST/NIRCam”, MNRAS, 529, 1067, March 2024

## CONTRIBUTING AUTHOR PUBLICATIONS

- [42] Adam J. Burgasser, Eileen C. Gonzales, Samuel A. Beiler, Channon Visscher, Ben Burningham, Gregory N. Mace, Jacqueline K. Faherty, Zenghua Zhang, Clara Sousa-Silva, Nicolas Lodieu, Stanimir A. Metchev, Aaron Meisner, Michael Cushing, Adam C. Schneider, Genaro Suarez, **Chih-Chun Hsu**, Roman Gerasimov, Christian Aganze, Christopher A. Theissen, “Observation of undepleted phosphine in the atmosphere of a low-temperature brown dwarf”, Science, October 2025
- [41] Jingwen Zhang, Daniel Huber, Michael Bottom, Lauren M. Weiss, Jerry W. Xuan, Adam L. Kraus, **Chih-Chun Hsu**, Jason J. Wang, Fei Dai, Katelyn Horstman, Ashley Baker, Randall Bartos, Benjamin Calvin, Sylvain Cetre, Catherine A. Clark, David R. Ciardi, Jacques-Robert Delorme, Gregory W. Doppmann, Daniel Echeverri, Luke Finnerty, Michael P. Fitzgerald, Steve B. Howell, Howard Isaacson, Nemanja Jovanovic, Kathryn V. Lester, Joshua Liberman, Ronald A. López, Dimitri Mawet, Evan Morris, Jacklyn Pezzato-Rovner, Jean-Baptiste Ruffio, Ben Sappey, Tobias Schofield, Andrew Skemer, J. Kent Wallace, Ji Wang, Yinzi Xin, Judah Van Zandt, “Dynamical Architectures of S-type Transiting Planets in Binaries II: A Dichotomy in Orbital Alignment of Small Planets in Close Binary Systems”, submitted to AAS journals, October 2025
- [40] S. Zúñiga-Fernández, F. J. Pozuelos, M. Dévora-Pajares, N. Cuello, M. Greklek-McKeon, K. G. Stassun, V. Van Grootel, B. Rojas-Ayala, J. Korth, M. N.

- Günther, A. J. Burgasser, **C. Hsu**, B. V. Rackham, K. Barkaoui, M. Timmermans, C. Cadieux, R. Alonso, I. A. Strakhov, S. B. Howell, C. Littlefield, E. Furlan, P. J. Amado, J. M. Jenkins, J. D. Twicken, M. Sucerquia, Y. T. Davis, N. Schanche, K. A. Collins, A. Burdanov, F. Davoudi, B.-O. Demory, L. Delrez, G. Dransfield, E. Ducrot, L. J. Garcia, M. Gillon, Y. Gómez Maqueo Chew, C. Janó Muñoz, E. Jehin, C. A. Murray, P. Niraula, P. P. Pedersen, D. Queloz, R. Rebolo-López, M. G. Scott, D. Sebastian, M. J. Hooton, S. J. Thompson, A. H. M. J. Triaud, J. de Wit, M. Ghachoui, Z. Benkhaldoun, R. Doyon, D. Lafrenière, V. Casanova, A. Sota, I. Plauchu-Frayn, A. Khandelwal, F. Zong Lang, U. Schroffenegger, S. Wampfler, M. Lendl, R. P. Schwarz, F. Murgas, E. Palte, H. Parviainen, “Two warm Earth-sized exoplanets and an Earth-sized candidate in the M5V-M6V binary system TOI-2267”, Accepted to A&A, August 2025
- [39] Luke Finnerty, Julie Inglis, Michael P. Fitzgerald, Daniel Echeverri, Nemanja Jovanovic, Dimitri Mawet, Geoffrey A. Blake, Ashley Baker, Randall Bartos, Benjamin Calvin, Sylvain Cetre, Jacques-Robert Delorme, Greg Doppmann, Katelyn Horstman, **Chih-Chun Hsu**, Joshua Liberman, Ronald A. López, Evan Morris, Jacklyn Pezzato-Rovner, Jean-Baptiste Ruffio, Ben Sappety, Tobias Schofield, Andrew Skemer, J. Kent Wallace, Nicole L. Wallack, Jason J. Wang, Ji Wang, Yinzi Xin, Jerry W. Xuan, “The watery atmosphere of HD 209458 b revealed by joint K- and L-band high-resolution spectroscopy”, Accepted to AJ, August 2025
- [38] Katelyn A. Horstman, Jean-Baptiste Ruffio, Jason J. Wang, **Chih-Chun Hsu**, Ashley Baker, Luke Finnerty, Jerry W. Xuan, Daniel Echeverri, Yinzi Xin, Dimitri Mawet, Geoffrey A. Blake, Randall Bartos, Charlotte Z. Bond, Benjamin Calvin, Sylvain Cetre, Jacques-Robert Delorme, Greg Doppmann, Michael P. Fitzgerald, Nemanja Jovanovic, Ronald Lopez, Emily C. Martin, Evan Morris, Jacklyn Pezzato, Garreth Ruane, Ben Sappety, Tobias Schofield, Andrew Skemer, Taylor Venenciano, James Kent Wallace, Ji Wang, Peter Wizinowich, “Fringing analysis and forward modeling of Keck Planet Imager and Characterizer (KPIC) spectra”, JATIS, 11, 3, 035004, August 2025
- [37] Luke Finnerty, Yinzi Xin, Jerry W. Xuan, Julie Inglis, Michael P. Fitzgerald, Shubh Agrawal, Ashley Baker, Randall Bartos, Geoffrey A. Blake, Benjamin Calvin, Sylvain Cetre, Jacques-Robert Delorme, Greg Doppmann, Daniel Echeverri, Katelyn Horstman, **Chih-Chun Hsu**, Nemanja Jovanovic, Joshua Liberman, Ronald A. López, Emily C. Martin, Dimitri Mawet, Evan Morris, Jacklyn Pezzato, Jean-Baptiste Ruffio, Ben Sappety, Tobias Schofield, Andrew Skemer, Taylor venenciano, J. Kent Wallace, Nicole L. Wallack, Jason J. Wang, Ji Wang, “Water dissociation and rotational broadening in the atmosphere of KELT-20 b from high-resolution spectroscopy”, AJ, 169, 6, 333, March 2025
- [36] K. Barkaoui, J. Korth, E. Gaidos, E. Agol, H. Parviainen, F.J. Pozuelos, E. Palte, N. Narita, S. Grimm, M. Brady, J.L. Bean, G. Morello, B.V. Rackham, A.J. Burgasser, V. Van Grootel, B. Rojas-Ayala, A. Seifahrt, E. Marfil, V.M. Passegger, M. Stalport, M. Gillon, K.A. Collins, A. Shporer, S. Gialalone, S. Yalçinkaya, E. Ducrot, M. Timmermans, A.H.M.J. Triaud, J. de Wit, A. Soubkiou, C.N. Watkins, C. Aganze, R. Alonso, P.J. Amado, R. Basant, Ö. Bastürk, Z. Benkhaldoun, A. Burdanov, Y. Calatayud-Borras, J. Chouqar, D.M. Conti, K.I. Collins, F. Davoudi, L. Delrez, C.D. Dressing, J. de Leon, M. D’evora-Pajares, B.O. Demory, G. Dransfield, E. Esparza-Borges, G. Fern’andez-Rodriguez, I. Fukuda, A. Fukui, P.P.M. Gallardo, L. Garcia, N.A. Garcia, M. Ghachoui, S. Gerald’ia-González, Y. Gómez Maqueo Chew, J. González-Rodríguez, M.N. Günther, Y. Hayashi, K. Horne, M.J. Hooton, **C.-C. Hsu**, K. Ikuta, K. Isogai, E. Jehin, J.M. Jenkins, K. Kawauchi, T.

- Kagetani, Y. Kawai, D. Kasper, J.F. Kielkopf, P. Klagyivik, G. Lacedelli, D.W. Latham, F. Libotte, R. Luque, J.H. Livingston, L. Mancini, B. Massey, M. Mori, S. Muñoz Torres, F. Murgas, P. Niraula, J. Orell-Miquel, David Rapetti, R. Rebolo-Lopez, G. Ricker, R. Papini, P.P. Pedersen, A. Peláez-Torres, J.A. Pérez-Prieto, E. Poulourtzidis, P.M. Rodriguez, D. Queloz, A.B. Savel, N. Schanche, M. Sanchez-Benavente, L. Sibbald, R. Sefako, S. Sohy, A. Sota, R.P. Schwarz, S. Seager, D. Sebastian, J. Southworth, M. Stangret, G. Stefánsson, J. Stürmer, G. Srdoc, S.J. Thompson, Y. Terada, R. Vanderspek, G. Wang, N. Watanabe, F.P. Wilkin, J. Winn, R.D. Wells, C. Ziegler, S. Zúñiga-Fernández, “Technical description and performance of the phase II version of the Keck Planet Imager and Characterizer”, *A&A*, 695, 281, February 2025
- [35] Nemanja Jovanovic, Daniel Echeverri, Jacques-Robert Delorme, Luke Finnerty, Tobias Schofield, Jason J. Wang, Yinzi Xin, Jerry Xuan, J. Kent Wallace, Dimitri Mawet, Aniket Sanghi, Ashley Baker, Randall Bartos, Charlotte Z. Bond, Benjamin Calvin, Sylvain Cetre, Greg Doppmann, Michael P. Fitzgerald, Jason Fucik, Maodong Gao, Jinhao Ge, Charlotte Guthery, Katelyn Horstman, **Chih-Chun Hsu**, Joshua Liberman, Stephanie Leifer, Scott Lilley, Ronald Lopez, Eduardo Marin, Emily C. Martin, Bertrand Mennesson, Evan Morris, Reston Nash, Jacklyn Pezzato, Michael Porter, Mitsuko Roberts, Garreth Ruane, Jean-Baptiste Ruffio, Ben Sappey, Eugene Serabyn, Boqiang Shen, Andrew Skemer, Ji Wang, Edward Wetherell, Peter Wizinowich, Maissa Salama, Vincent Chambouleyron, Rebecca Jensen-Clem, Chas Beichman, “Technical description and performance of the phase II version of the Keck Planet Imager and Characterizer”, *JATIS*, 11, 015005, January 2025
- [34] Sappey, Ben; Konopacky, Quinn; Do O, Clarissa R.; Barman, Travis; Ruffio, Jean-Baptiste; Wang, Jason; Theissen, Christopher A.; Finnerty, Luke; Xuan, Jerry; Hortsman, Katelyn; Mawet, Dimitri; Zhang, Yapeng; Inglis, Julie; Wallack, Nicole L.; Sanghi, Aniket; Baker, Ashley; Bartos, Randall; Blake, Geoffrey A.; Bond, Charlotte Z.; Calvin, Benjamin; Cetre, Sylvain; Delorme, Jacques-Robert; Doppmann, Greg; Echeverri, Daniel; Fitzgerald, Michael P.; **Hsu, Chih-Chun**; Jovanovic, Nemanja; Liberman, Joshua; Lopez, Ronald A.; Martin, Emily C.; Morris, Evan; Pezzato-Rovner, Jacklyn; Phillips, Caprice L.; Ruane, Garreth; Schofield, Tobias; Skemer, Andrew; Venenciano, Taylor; Wallace, J. Kent; Wang, Ji; Wizinowich, Peter; Xin, Yinzi, “HD 206893 B at High Spectral Resolution with the Keck Planet Imager and Characterizer (KPIC)”, *AJ*, 169, 3, 175, March 2025
- [33] Luke Finnerty, Yinzi Xin, Jerry W. Xuan, Julie Inglis, Michael P Fitzgerald, Shubh Agrawal, Ashley Baker, Geoffrey A. Blake, Benjamin Calvin, Sylvain Cetre, Jacques-Robert Delorme, Greg Doppman, Daniel Echeverri, Katelyn Horstman, **Chih-Chun Hsu**, Nemanja Jovanovic, Joshua Liberman, Ronald A. López, Emily C. Martin, Dimitri Mawet, Evan Morris, Jacklyn Pezzato-Rovner, Jean-Baptiste Ruffio, Ben Sappey, Tobias Schofield, Andrew Skemer, Taylor Venenciano, J. Kent Wallace, Nicole L. Wallack, Jason J. Wang, Ji Wang, “True mass and atmospheric composition of the non-transiting hot Jupiter HD 143105 b”, *AJ*, 169, 2, 94, February 2025
- [32] Adam J. Burgasser, Adam C. Schneider, Aaron M. Meisner, Dan Caselden, **Chih-Chun Hsu**, Roman Gerasimov, Christian Aganze, Emma Softich, Preethi Karpoor, Christopher A. Theissen, Hunter Brooks, Thomas P. Bickle, Jonathan Gagné, Étienne Artigau, Michaël Marsset, Austin Rothermich, Jacqueline K. Faherty, J. Davy Kirkpatrick, Marc J. Kuchner, Nikolaj Stevnbak Andersen, Paul Beaulieu, Guillaume Colin, Jean Marc Gantier, Leopold Gramaize, Les Hamlet, Ken Hinckley, Martin Kabatnik Frank Kiwy, David W. Martin, Diego H. Massat, William Pendrill, Arttu Sainio, Jorg Schumann, Melina Thevenot,

- Jim Walla, Zbigniew Wedrcki, the Backyard Worlds: Planet 9 Collaboration, “New Cold Subdwarf Discoveries from Backyard Worlds and a Metallicity Classification System for T Subdwarfs”, *ApJS*, 982, 2, 79, April 2025
- [31] Katelyn Horstman, Jean-Baptiste Ruffio, Konstantin Batygin, Dimitri Mawet, Ashley Baker, **Chih-Chun Hsu**, Jason J. Wang, Ji Wang, Sarah Blunt, Jerry W. Xuan, Yinzi Xin, Joshua Liberman, Shubh Agrawal, Quinn M. Konopacky, Geoffrey A. Blake, Clarissa R. Do O, Randall Bartos, Charlotte Z. Bond, Benjamin Calvin, Sylvain Cetre, Jacques-Robert Delorme, Greg Doppmann, Daniel Echeverri, Luke Finnerty, Michael P. Fitzgerald, Nemanja Jovanovic, Ronald Lopez, Emily C. Martin, Evan Morris, Jacklyn Pezzato, Garreth Ruane, Ben Sapprey, Tobias Schofield, Andrew Skemer, Taylor Venenciano, J. Kent Wallace, Nicole L. Wallack, Peter Wizinowich, “RV measurements of directly imaged brown dwarf GQ Lup B to search for exo-satellites”, *AJ*, 168, 175, October 2024
- [30] Yapeng Zhang, Jerry W. Xuan, Dimitri Mawet, Jason J. Wang, **Chih-Chun Hsu**, Jean-Bapiste Ruffio, Heather A. Knutson, Julie Inglis, Geoffrey A. Blake, Yayaati Chachan, Katelyn Horstman, Ashley Baker, Randall Bartos, Benjamin Calvin, Sylvain Cetre, Jacques-Robert Delorme, Greg Doppmann, Daniel Echeverri, Luke Finnerty, Michael P. Fitzgerald, Nemanja Jovanovic, Joshua Liberman, Ronald A. López, Evan Morris, Jacklyn Pezzato, Ben Sapprey, Tobias Schofield, Andrew Skemer, J. Kent Wallace, Ji Wang, Clarissa R. Do Ó, “Atmospheric characterization of the super-Jupiter HIP 99770 b with KPIC”, *AJ*, 168, 131, September 2024
- [29] Federico Marocco, J. Davy Kirkpatrick, Adam C. Schneider, Aaron M. Meisner, Mark Popinchalk, Christopher R. Gelino, Jacqueline K. Faherty, Adam J. Burgasser, Dan Caselden, Jonathan Gagne, Christian Aganze, Daniella C. Bardalez-Gagliuffi, Sarah L. Casewell, **Chih-Chun Hsu**, Rocio Kiman, Peter R. M. Eisenhardt, Marc J. Kuchner, Daniel Stern, Leopold Gramaize, Arttu Sainio, Thomas P. Bickle, Austin Rothermich, William Pendrill, Melina Thevenot, Martin Kabatnik, Giovanni Colombo, Hiro Higashimura, Frank Kiwy, Elijah J. Marchese, Nikolaj Stevnbak Andersen, Christopher Tanner, Jim Walla, Zbigniew Wedrcki, The Backyard Worlds Collaboration, “Thirteen New M Dwarf + T Dwarf Pairs Identified with WISE/NEOWISE”, *ApJ*, 967, 147, June 2024
- [28] J. C. Costes, J. W. Xuan, A. Vigan, J. Wang, V. D’Orazi, P. Mollière, A. Baker, R. Bartos, G. A. Blake, B. Calvin, S. Cetre, J. Delorme, G. Doppmann, D. Echeverri, L. Finnerty, M. P. Fitzgerald, **C. Hsu**, N. Jovanovic, R. Lopez, D. Mawet, E. Morris, J. Pezzato, C. L. Phillips, J. Ruffio, B. Sapprey, A. Schneeberger, T. Schofield, A. J. Skemer, J. K. Wallace, J. Wang, “Fresh view of the hot brown dwarf HD 984 B through high-resolution spectroscopy”, *A&A*, 686, 294, June 2024
- [27] Clarissa R. Do Ó, Ben Sapprey, Quinn M. Konopacky, Jean-Baptiste Ruffio, Kelly K. O’Neil, Tuan Do, Gregory Martinez, Travis S. Barman, Jayke S. Nguyen, Jerry W. Xuan, Christopher A. Theissen, Sarah Blunt, William Thompson, **Chih-Chun Hsu**, Ashley Baker, Randall Bartos, Geoffrey A. Blake, Benjamin Calvin, Sylvain Cetre, Jacques-Robert Delorme, Greg Doppmann, Daniel Echeverri, Luke Finnerty, Michael P. Fitzgerald, Julie Inglis, Nemanja Jovanovic, Ronald A. López, Dimitri Mawet, Evan Morris, Jacklyn Pezzato, Tobias Schofield, Andrew Skemer, J. Kent Wallace, Jason J. Wang, Ji Wang, Joshua Liberman, “Orbital and Atmospheric Characterization of the 1RXS J034231.8+121622 System Using High-Resolution Spectroscopy Confirms That The Companion is a Low-Mass Star”, *AJ*, 167, 278, June 2024

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**NON-  
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## TALKS

- “*Giant Planets and Low-mass Companions Show Different Spins but Similar C/O Ratios from Keck/KPIC High-resolution Spectroscopy*” October 12, 2025  
51 Peg b 30th Birthday: Cool Giant Exoplanets & Their Systems, Observatoire de Haute-Provence, France (delivered as a virtual talk)
- “*Bifurcated Rotation of Giant Planets and Brown Dwarf Companions*” September 19, 2025  
Keck Science Meeting, UCLA, Los Angeles, CA (delivered as a virtual talk)
- “*Rotational Signatures Between Imaged Gas Giant Exoplanets and Close Brown Dwarf Companions and Between Stellar/Substellar Boundary*” June 12, 2025  
AAS 246 Meeting, Anchorage, Alaska, AK
- “*Rotation and Abundances of Low-mass Stars, Brown Dwarfs, and Giant Exoplanets from Keck/KPIC High-resolution Spectroscopy*” September 12, 2024  
Keck Science Meeting, Caltech, Pasadena, CA
- “*Rotation and Abundances of Low-mass Stars, Brown Dwarfs, and Exoplanets from Keck/KPIC High-resolution Spectroscopy*” July 10, 2024  
Emerging Researchers in Exoplanet Science Symposium IX, Cornell University, Ithaca, NY
- “*Rotation and Abundances of Low-mass Stars, Brown Dwarfs, and Exoplanets from Keck/KPIC High-resolution Spectroscopy*” June 25, 2024  
Cool Stars 22, University of California San Diego, San Diego, CA
- “*Probing Formation and Evolution of Low-mass Stars, Brown Dwarfs, and Giant Exoplanets using High-resolution Spectroscopy*” (invited) May 20, 2024  
Monday Science Seminar, Department of Astronomy, University of Wisconsin-Madison, WI
- “*The Brown Dwarf Kinematics Project (BDKP). VI. Ultracool Dwarf Radial and Rotational Velocities from SDSS/APOGEE High-Resolution Spectroscopy*” January 10, 2024  
AAS 243 Meeting, Ernest N. Morial Convention Center, New Orleans, LA
- “*Rotation of Directly-Imaged Brown Dwarfs and Gas Giant Exoplanets with KPIC*” October 27, 2023  
Great Lakes Exoplanets Area Meeting, Indiana University, Bloomington, IN
- “*Discovery of the Shortest-Period Ultracool Dwarf Binary*” January 11, 2023  
AAS 241 Meeting, Seattle Convention Center, Seattle, WA

- “Discovery of the Shortest-Period Ultracool Dwarf Binary” (**press conference**)  
January 10, 2023  
AAS 241 Meeting Press Conference, Seattle Convention Center, Seattle, WA
- “Kinematics, Rotation, and Multiplicity of Ultracool Dwarfs with High-Resolution Near-Infrared Spectroscopy” (**Rodger Doxsey Prize dissertation talk**)  
June 14, 2022  
AAS 240 Meeting, Pasadena Convention Center, Pasadena, CA
- “Forward-Modeling High-Resolution Spectroscopic Data of Ultracool Dwarfs with Large Public Archives”  
June 3, 2022  
HDSI Internal Talk, Halicioglus Data Science Institute, UC San Diego, Virtual
- “Kinematics, Rotation, and Multiplicity of Ultracool Dwarfs with High-Resolution Near-Infrared Spectroscopy” (**invited**)  
May 25, 2022  
IPAC Seminar Series, Infrared Processing and Analysis Center, Virtual
- “Radial and Rotational Velocities of T Dwarfs from Keck/NIRSPEC High-Resolution Spectroscopy”  
September 9, 2021  
Keck Science Meeting, UC San Diego
- “Precise Radial and Rotational Velocities of Ultracool Dwarfs with the APOGEE High-Resolution Spectrometer”  
August 11, 2021  
2021 SDSS Collaboration Meeting, Virtual
- “Radial Velocities and Kinematic Ages of Nearby T Dwarfs from Keck/NIRSPEC High-Resolution Spectroscopy”  
January 15, 2021  
AAS 237 Meeting, Virtual
- “Precise Radial and Rotational Velocities of Ultracool Dwarfs Using a Forward-Modeling Method with High-Resolution Spectroscopy”  
February 4, 2020  
High-Resolution Infrared Spectroscopy for Exoplanet Characterization Hackathon, Caltech, Pasadena, CA
- “Radial and Rotational Velocities of Ultracool Dwarfs From High-Resolution Spectroscopy” (**invited**)  
March 5, 2019  
AMNH Astrophysics seminar, American Museum of Natural History, New York, NY
- “Radial and Rotational Velocities of Ultracool Dwarfs From High-Resolution Spectroscopy”  
February 15, 2019  
CASS Journal Club, UC San Diego, La Jolla, CA

## POSTERS

- “Giant Planets and Low-mass Companions Show Distinct Spins”  
August 2025  
CIERA Fellows at 15, Northwestern University, Evanston, IL
- “Giant Planets and Low-mass Companions Show Distinct Spins”  
July 2025  
Exoclines VII, Université de Montréal, Montreal, Canada
- “Rotation and Abundances of HD 33632 Ab with KPIC”  
July 2023  
2023 Sagan Summer Workshop, Caltech, Pasadena, CA
- “Kinematics, Rotation, and Multiplicity of Ultracool Dwarfs with High-Resolution Near-Infrared Spectroscopy”  
July 2022

The 21 Cambridge Workshops of Cool Stars, Stellar Systems and the Sun, Toulouse, France

*“Radial Velocities and Kinematic Ages of Nearby T Dwarfs from Keck/NIRSPEC High-Resolution Spectroscopy”* March 2021

The 20.5 Cambridge Workshops of Cool Stars, Stellar Systems and the Sun, Virtual

*“Precise Radial and Rotational Velocities for over 440 Ultracool Dwarfs Observed with NIRSPEC”* September 2020

Keck Science Meeting 2020, Virtual

*“Precise Radial and Rotational Velocities for T Dwarfs Using NIRSPEC High-Resolution Spectrometer”* September 2019

Keck Science Meeting 2019, UCLA, Los Angeles, CA

*“Precise Radial and Rotational Velocities of Ultracool Dwarfs with APOGEE High-Resolution Spectra”* June 2019

SDSS-IV/V Collaboration Meeting 2019, Ensenada, Mexico

*“Radial and Rotational Velocities for 300+ Ultracool Dwarfs from NIRSPEC High-Resolution Spectroscopy”* January 2019

AAS 233 Meeting, Seattle, WA

*“Toward Measurements of Radial and Rotational Velocities of 300+ Ultracool Dwarfs from NIRSPEC High-Resolution Spectroscopy”* September 2018

Keck Science Meeting 2018, Caltech, Pasadena, CA

*“Precise Radial Velocities to Detect Exoplanets around Ultracool Dwarfs Using the NIRSPEC High-Resolution Spectrograph”* September 2018

ExSoCal 2018, Caltech, Pasadena, CA

*“Refined Measurements of Radial and Rotational Velocities of 300+ Ultracool Dwarfs from NIRSPEC High-Resolution Spectroscopy”* July 2018

Cool Stars 20, Boston University, Cambridge, MA

## **SELECTED MEDIA COVERAGE**

*“What a Signal in a Failed Star’s Clouds Means for the Search for Life”*,  
New York Times, October 2025

*“Baby planet’s first direct atmosphere measurement”*,  
Chemical & Engineering News (American Chemical Society), December 2024

*“Young Planet Contains Different Mix of Materials Than the Disc that Birthed It”*,  
Discover Magazine, December 2024

*“This baby exoplanet is made of different stuff than its birth cloud”*,  
Space.com, December 2024

*“Young exoplanet’s atmosphere unexpectedly differs from its birthplace”*,  
Northwestern News, December 2024

*“Peeking at the formation of PDS 70 b”*,  
Nature Astronomy Research Highlights, December 2024

*“Observations investigate properties of nearby brown dwarf HD 33632 Ab”*,

Phys.org, May 2024

“Record breakers! Super-close dwarf stars orbit each other in less than a day ”,  
Space.com, March 2023

“Ces deux naines ultrafroides présentent la plus courte période orbitale jamais enregistrée”,  
Science & Vie (in French), April 2023

“Ultracool Dwarf Binary Stars Break Records ”,  
W. M. Keck Observatory, February 2023

“Astronomers Spot A Tiny Binary System”,  
Sky & Telescope, January 2023

“Ultracool dwarf binary stars break records”,  
Earth Sky, January 2023

“This Record-Breaking Star System’s Year Is Shorter Than One Earth Day”,  
CNET, January 2023

“Ultracool dwarf binary stars break records ”,  
Northwestern News, January 2023

“Here’s how cool a star can be and still achieve lasting success”,  
Science News, August 2021

“Citizen scientists help discover 95 brown dwarfs that are neighbors of our sun”,  
CNN, August 2020

<b>WORKSHOPS</b>	<i>Research Communication Training Program</i> Northwestern University, Evanston, IL	March 26– May 29 2024
	<i>2023 Sagan Summer Workshop</i> Caltech, Pasadena, CA	July 24–28 2023
	<i>Future Keck IR Spectroscopy Workshop</i> Virtual	January 27 2021
	<i>High-Resolution Infrared Spectroscopy for Exoplanet Characterization Hackathon</i> Caltech, Pasadena, CA	February 4–6 2020
	<i>Telluric Line Hack Week Workshop</i> Flatiron Institute, New York, NY	February 25–28 2019
	<i>2017 Kraft Observational Astronomy Workshop</i> Lick Observatory, Mount Hamilton, CA	October 12–16 2017
	<i>SciCoder Workshop</i> Vanderbilt University, Nashville, TN	July 31–August 4 2017

<b>GRANTS &amp; FUNDINGS</b>	<i>Characterizing the Lowest-mass Planet Hosts and Investigating the Potential Link</i>
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	2024—2026 between Stellar Surface Gravity and Planet Occurrence Co-I, NASA XRP (PI: Christopher Theissen), \$618k	2024–2026
	<i>Infrared Gold: A Student-Centered Program to Extract, Analyze, and Disseminate 20 Years of IRTF/SpeX Point-Source Spectroscopy</i> Co-I, NASA ADAP (PI: Adam Burgasser), \$666,511	2022–2025
<b>TELESCOPE TIME AWARDED</b>	<p><b>James Webb Space Telescope</b> Co-I: <b>Cycle 3:</b> <i>Arcana of the Ancients: A Spectral Metallicity Survey of the Lowest-Mass Stars and Brown Dwarfs</i>, (PI: Adam Burgasser), 58.2 Primary Spacecraft Hours awarded</p> <p>Co-I: <b>Cycle 3:</b> <i>Is CWISE 1055+5443 the first young Y-type brown dwarf?</i>, (PI: Aaron Meisner), 4.09 Primary Spacecraft Hours awarded</p> <p><b>Hubble Space Telescope</b> Co-I: <b>Cycle 32:</b> <i>It Takes Two Planets to Tango: Constraining the Orbit of a Planetary-Mass Binary</i>, (PI: Christopher Theissen), 10 Primary Spacecraft Orbits in Cycles 32 and 33 awarded</p> <p>Co-I: <b>Cycle 32:</b> <i>The Size and Shape of the Milky Way from HST pure-parallel low-mass starcounts</i>, (PI: Benne Holwerda), Archival Research</p> <p><b>W. M. Keck Telescopes, Keck II 10-meter</b> <b>PI: 2025B:</b> <i>Toward characterizing directly imaged exoplanets in H band with KPIC high-resolution spectroscopy</i>, 0.5 nights awarded (KPIC)</p> <p><b>PI: 2024B–2025A:</b> <i>Precise Abundances of Ultracool Dwarfs using FGK Wide Binaries</i>, 4.1 nights awarded; 1.1 night awarded through Northwestern and 3.0 additional nights awarded as Co-I through Theissen’s UC access (NIRSPEC)</p> <p><b>PI: 2023B–2024A:</b> <i>Precise Characterization of M Dwarf Exoplanet Host Abundances for KPIC</i>, 1.0 night awarded (NIRSPEC)</p> <p>Co-I: <b>2022B–2024B:</b> <i>Abundances and Kinematics of Ultracool Dwarf Planet Host Twin Stars</i>, 4.5 nights awarded (NIRSPEC)</p> <p>Co-I: <b>2024A:</b> <i>Keck/NIRSPEC Cadence Program: NIRSPEC Observations of Ultra-short Period Ultracool Binaries</i>, 0.8 nights awarded (NIRSPEC; Hsu science lead)</p> <p>Co-I: <b>2021B–2022B:</b> <i>Galactic Archaeology with Ultracool Dwarfs: Kinematic Structure Among L Dwarfs</i>, 5.25 nights awarded (NIRSPEC; Hsu thesis project)</p> <p>Co-I: <b>2021B–2022B:</b> <i>The Old and the Quick: A Search for Halo Brown Dwarfs with Backyard Worlds</i>, 5.5 nights awarded (NIREs)</p> <p>Co-I: <b>2019B–2020B:</b> <i>Completing the Kinematic Census of Local T Dwarfs</i>, 5.75 nights awarded (NIRSPEC; Hsu thesis project)</p> <p>Co-I: <b>2018B–2021A:</b> <i>NIREs Follow-up of Young T Dwarfs from Backyard Worlds</i>, 9 nights awarded (NIREs)</p> <p><b>Gemini South Telescope</b> Co-I: <b>2024A:</b> <i>High-resolution Near-infrared Observations of a Planetary-mass Bi-</i></p>	

*nary*, 8 hours (IGRINS)

Co-I: **2023B**: *Is the First T Dwarf Companion a Brown Dwarf Binary?*, 16.9 hours (IGRINS)

Co-I: **2023A**: *Abundances and Kinematics of Ultracool Dwarf Planet Host Twin Stars*, 10.7 hours (IGRINS)

Co-I: **2022B**: *Discovery of an Exceptionally Short-Period Very Low Mass Binary*, 6.4 hours (IGRINS)

#### MMT Observatory

PI: **2023B-2025B**: *Abundance Calibration of Ultracool Dwarfs Using FGK Wide-Binaries with MMT Hectochelle*, 5.0 nights awarded (Hectochelle)

#### Lick Observatory

PI: **2022B**: *Calibrations of Chemical Abundances of Ultracool Dwarfs in Wide Binary Systems with Optical High-Resolution Spectroscopy of G-Type Primaries*, 1 night awarded (APF)

Co-I **2023B-2024B**: *Optical Spectroscopy of New and Benchmark M & L Dwarfs from Gaia and Backyard Worlds, and Potential Exoplanet Hosts from TESS and SPECULOOS*, 15 night awarded (Shane/Kast)

Co-I **2021A**: *Optical Spectroscopy of New Nearby M & L Dwarfs from Gaia & LaTE-MoVeRS*, 4 night awarded (Shane/Kast)

Co-I: **2021A**: *Radial Velocity Monitoring of WISE J1624-3212: A Potential Low-mass Binary Hiding at 18 pc*, 1 night awarded (APF)

#### NASA InfraRed Telescope Facility (IRTF)

PI: **2024B-2025A**: *Characterization of Benchmark Ultracool M Dwarfs with FGK Wide Binaries*, 27.5 hours awarded (SpeX)

PI: **2022B, 2023B**: *Discovery of an Exceptionally Short-Period Very Low Mass Binary*, 6 nights awarded (iSHELL)

Co-I: **2018A-2019B**: *Training the Cannon: Calibrating APOGEE Observations of Ultracool Dwarfs*, 6 nights awarded (iSHELL)

#### Canada France Hawaii Telescope (CFHT)

Co-I: **2021A**: *Precision NIR RVs for WISE J1624-3212*, 2.4 hours awarded (SPIRou)

#### ADDITIONAL OBSERVING EXPERIENCE

Keck II 10-meter/NIRSPEC 7 nights 2017-2018

Keck I 10-meter/HIRES 0.5 nights 2018

#### Shane Telescope 3-meter

• Kast Double Spectrograph: 22 nights 2018-2021

• ShaneAO/ShARCS: 1 night 2019

NASA InfraRed Telescope Facility (IRTF)/SpeX 2 nights 2021-2022

<b>MENTORSHIP</b>	Aarushi Mehrotra, high school student at Walter Payton College Prep.	2025–present
	Nathan Scott, undergraduate student at Northwestern University	2025–present
	Julianne Cronin, graduate student at Northwestern University	2023–present
	Allie Salyga, undergraduate student at Northwestern University	2023–2024
	Brigette Vazquez, undergraduate student at UC San Diego	
	→ PhD student at University of Michigan	2021–2022
	Delilah Jacobsen, undergraduate student at UC San Diego	2021–2022
	Tianxing “Sky” Zhou, undergraduate student at UC San Diego	
	→ incoming PhD student at Brigham Young University	2021–2022

**TEACHING** Summary: 4 guest lectures at Northwestern University; 1-time teaching assistant at AAS Meeting workshop; 15 quarters as a teaching assistant for 6 different classes at UC San Diego; 1-time teaching assistant for Physics GRE Bootcamp at UC San Diego

*Guest lecture for ASTRON 314/414* January 30, 2025  
Northwestern University, Evanston, IL

- Introductory lecture on brown dwarf astrophysics for undergraduate and graduate physics/astronomy students

*Teaching assistant for Workshop “How to Read Papers Efficiently and Effectively: A Workshop on Critical Reading for Students and Instructors”* January 7, 2024  
AAS 243 Meeting, Ernest N. Morial Convention Center, New Orleans, LA

- Introductory lecture on brown dwarf astrophysics for undergraduate and graduate physics/astronomy students

*Guest lecture for ASTRON 314/414* May 11, 2023  
Northwestern University, Evanston, IL

- Introductory lecture on brown dwarf astrophysics for undergraduate and graduate physics/astronomy students

*Guest lectures for ASTRON 441* October 25 and 27, 2022  
Northwestern University, Evanston, IL

- workshops on Overleaf and reading academic papers for first- and second-year astronomy Ph.D. students

*Teaching assistant for PHYS 2D* Spring 2021  
UC San Diego, La Jolla, CA

- lower-division modern physics lecture for engineering/physical science majors

*Teaching assistant for PHYS 5* Fall 2020  
UC San Diego, La Jolla, CA

- lower-division introductory stellar astrophysics lecture for non-physics major

*Teaching assistant for PHYS 2DL* Spring & Fall 2017, 2019, Spring 2020, Fall 2021  
UC San Diego, La Jolla, CA

- lower-division modern physics lab for engineering/physical science majors

*Teaching assistant for PHYS 1A* Spring 2018  
UC San Diego, La Jolla, CA

- lower-division mechanics lab for life-science majors

*Teaching assistant for PHYS 160* Winter 2018, Fall 2018

	UC San Diego, La Jolla, CA	
	<ul style="list-style-type: none"> <li>• upper-division introductory stellar astrophysics lecture for physics major</li> </ul>	
	<i>Teaching assistant for PHYS 2BL</i>	Fall 2016, Winter 2017
	UC San Diego, La Jolla, CA	
	<ul style="list-style-type: none"> <li>• lower-division electricity &amp; magnetism lab for engineering/physics major</li> </ul>	
	<i>California Professoriate for Access to Physics Careers (CPAPC)</i>	
	<i>Southern California Physics GRE Bootcamp</i>	August 2017
	<ul style="list-style-type: none"> <li>• UC San Diego, La Jolla, CA</li> </ul>	
<b>PUBLIC OUTREACH</b>	<b>CIERA REACH Invited Panelist</b>	July 25 <sup>th</sup> , 2024 & July 2 <sup>nd</sup> and 23 <sup>rd</sup> , 2025
	Northwestern University, Evanston, IL	
	<ul style="list-style-type: none"> <li>• “Ask Me Anything” program for high school students</li> </ul>	
	<b>Astronomy on Tap Chicago (invited)</b>	February 9 <sup>th</sup> , 2023
	Begyle Brewing, Chicago, IL	
	<ul style="list-style-type: none"> <li>• Famous astronomy outreach program to general public</li> <li>• “Discovery of the Closest-Separated, Fastest-Orbiting Ultracool Dwarf Couple”</li> </ul>	
	<b>Python Workshop for Physics Undergraduate Students</b>	
	UC San Diego, La Jolla, CA	November 2019–2021
	<ul style="list-style-type: none"> <li>• Python programming bridge program for transferred students to UC San Diego</li> </ul>	
	<b>2019 Institute for Scientist &amp; Engineer Educators (ISEE)</b>	
	<b>Professional Development Program (PDP)</b>	March–September 2019
	UC Santa Cruz/UC Los Angeles, CA	
	<ul style="list-style-type: none"> <li>• Professional development team focused on effective and inclusive teaching, including mentoring, and also includes training in professional skills such as communication, teamwork, collaboration, and leadership.</li> </ul>	
	<b>Institute of the Americas (IOA) Science Innovation Camp</b>	July 20 2017
	UC San Diego, La Jolla, CA	
	<ul style="list-style-type: none"> <li>• Physics outreach for Latin American high school students (14–18 year old)</li> </ul>	
	<b>The Barrio Logan Science &amp; Art Expo</b>	March 16 2019
	Mercado del Barrio, San Diego, CA	
	<ul style="list-style-type: none"> <li>• Physics outreach for Mexican families from around southern San Diego</li> </ul>	
<b>REFEREE</b>	<b>AJ (2), ApJL (1), MNRAS (1)</b>	2023–present
	<b>Gemini observing proposal (2023A)</b>	2022
<b>SERVICE</b>	<b>Co-organizer of the CIERA Observers Group Meetings</b>	2023–2025
	<b>AAS Meeting Session Chair</b>	2025
<b>PROFESSIONAL AFFILIATIONS</b>	<b>American Astronomical Society (AAS)</b>	2018–Present
<b>SKILLS</b>	Python, L <sup>A</sup> T <sub>E</sub> X, Github, HTML; Languages: Mandarin (native), English (fluent)	

## REFERENCES

### **Prof. Adam Burgasser**

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University of California San Diego  
9500 Gilman Drive 0424, La Jolla, California 92093-0424, USA  
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### **Prof. Jason Wang**

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Northwestern University  
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jason.wang at northwestern.edu

### **Prof. Dimitri Mawet**

David Morrisroe Professor of Astronomy  
California Institute of Technology  
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### **Prof. Christopher Theissen**

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[CV compiled on 2025/10/14]