

# Chih-Chun “Dino” Hsu

---

Center for Interdisciplinary Exploration and Research in Astrophysics, Northwestern University  
1800 Sherman Ave, 8<sup>th</sup> Floor, Evanston, IL 60201, USA  
chsu [at] northwestern [dot] edu    <https://chihchunhsu.github.io/>

<b>CURRENT POSITION</b>	<b>Postdoctoral Associate</b> Center for Interdisciplinary Exploration and Research in Astrophysics, Northwestern University, Evanston, IL Supervisor: Jason Jinfei Wang	2022–present
<b>EDUCATION</b>	<b>University of California, San Diego</b> , La Jolla, CA, USA Doctor of Philosophy (Ph.D.) in Physics Thesis: “Kinematics, Multiplicity, Rotational Dynamics, and Population Properties of Ultracool Dwarfs Inferred from High-Resolution Near-Infrared Spectroscopy” Advisor: Adam J. Burgasser	August 2022
	<b>National Tsing Hua University</b> , Hsinchu, Taiwan Bachelor of Science (B.S) in Physics	June 2014
<b>RESEARCH INTERESTS</b>	lowest-mass stars; brown dwarfs; exoplanets; medium-/high-resolution spectroscopy; very low-mass binaries; stellar populations; stellar kinematics; stellar rotation	
<b>RESEARCH EXPERIENCE</b>	<b>Postdoctoral Associate</b> Center for Interdisciplinary Exploration and Research in Astrophysics, Northwestern University, Evanston, IL Supervisor: Jason Jinfei Wang	2022–present
	<b>Graduate Research Student</b> Center for Astrophysics and Space Sciences, UC San Diego, La Jolla, CA Advisor: Adam J. Burgasser	2016–2022
	<b>Research Assistant</b> Institute of Astronomy, National Tsing Hua University, Hsinchu, Taiwan Supervisor: Huei-Ru “Vivien” Chen	2015–2016
	<b>Undergraduate Research Student</b> Physics Department, National Tsing Hua University, Hsinchu, Taiwan Advisor: Kingman Cheung	2013–2014
<b>ACADEMIC HONORS &amp; AWARDS</b>	<b>Cool Stars 21 Travel Grant</b> Cool Stars 21 <sup>st</sup> Meeting, Toulouse, France	July 2022
	<b>Rodger Doxsey Travel Prize</b> AAS 240 <sup>th</sup> Meeting, Pasadena, CA Awarded for providing graduate students/postdocs 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 AAS 239 <sup>th</sup> Meeting).	June 2022
	<b>Friends of the International Center fellowship</b>	2020

UC San Diego, La Jolla, CA  
 Awarded for promoting international friendship, understanding, and cooperation.

**Carol and George Lattimer Award for Graduate Excellence** 2019–2020  
 UC San Diego, La Jolla, CA  
 Awarded to graduate students in the Divisions of Physical Sciences who seek interdisciplinary 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.

## FIRST AUTHOR PUBLICATIONS

- [4] **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.; Jacqueline K. Faherty, “The Brown Dwarf Kinematics Project (BDKP). VI. Radial and Rotational Velocities of late-M and L Dwarfs from Keck/NIRSPEC High-Resolution Spectroscopy”, in prep.
- [3] **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., “*Ultracool Dwarf Radial and Rotational Velocity Survey with SDSS/APOGEE High-Resolution Spectrometer*”, in prep.
- [2] **Hsu, C.**; Burgasser, A. J.; Bardalez Gagliuffi, D. C.; Sahlmann, Johannes; Theissen, C. A., “2MASS J21265916+7617440: A Long Period Brown Dwarf Binary System”, in prep.
- [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”, ApJS 257, 45, December 2021.

## CONTRIBUTING AUTHOR PUBLICATIONS

- [13] Kiwy, Frank; Faherty, Jacqueline K.; Meisner, Aaron; Schneider, Adam C.; Kirkpatrick, J. Davy; Kuchner, Marc J.; Burgasser, Adam J.; Casewell, Sarah; Kiman, Rocío; Calamari, Emily; Aganze, Christian; **Hsu, Chih-Chun**; Sainio, Arttu; Thakur, Vinod; The Backyard Worlds: Planet 9 Collaboration, “Discov-

- ery of 34 low-mass comoving systems using NOIRLab Source Catalog DR2”, *AJ*, 164, 3, July 2022
- [12] Aganze, Christian; Burgasser, Adam J.; Malkan, Mathew; Theissen, Christopher A.; Tejada Arevalo, Roberto A; **Hsu, Chih-Chun**; Bardalez Gagliuffi, Daniella C.; E Ryan, Russell, Jr; Holwerda, Benne, “Beyond the Local Volume II: Population Scaleheights and Ages of Ultracool Dwarfs in Deep HST/WFC3 Parallel Fields”, *ApJ*, 934, 73, July 2022
- [11] Softich, Emma; Schneider, Adam C.; Patience, Jennifer; Burgasser, Adam J.; Shkolnik, Evgenya; Faherty, Jacqueline K.; Caselden, Dan; Meisner, Aaron M.; Kirkpatrick, J. Davy; Kuchner, Marc J.; Gagne, Jonathan; Bardalez-Gagliuffi, Daniella; Cushing, Michael C.; Casewell, Sarah L.; Aganze, Christian; **Hsu, Chih-Chun**; Andersen, Nikola; Stevnbak; Kiwy, Frank; Thevenot, Melina; The Backyard Worlds: Planet 9 Collaboration, “CWISE J014611.20-050850.0AB: The Widest Known Brown Dwarf Binary in the Field”, *ApJL*, 922, L12, February 2022
- [10] Faherty, Jacqueline K.; Gagne, Jonathan; Popinchalk, Mark; Vos, Johanna M.; Burgasser, Adam J.; Schumann, Jorg; Schneider, Adam C.; Kirkpatrick, J. Davy; Meisner, Aaron M.; Kuchner, Marc J.; Bardalez Gagliuffi, Daniella C.; Marocco, Federico; Caselden, Dan; Gonzales, Eileen C.; Rothermich, Austin; Casewell, Sarah L.; Debes, John H.; Aganze, Christian; Ayala, Andrew; **Hsu, Chih-Chun**; Cooper, William J.; Smart, R. L.; Gerasimov, Roman; Theissen, Christopher A.; The Backyard Worlds: Planet 9 Collaboration, “A Wide Planetary Mass Companion Discovered Through the Citizen Science Project Backyard Worlds: Planet 9”, *ApJ*, 923, 48, December 2021
- [9] Aganze, Christian; Burgasser, Adam J.; Malkan, Mathew; Theissen, Christopher A.; Tejada Arevalo, Roberto A; **Hsu, Chih-Chun**; Bardalez Gagliuffi, Daniella C.; E Ryan, Russell, Jr; Holwerda, Benne, “Beyond the Local Volume I: Surface Densities of Ultracool Dwarfs in Deep HST/WFC3 Parallel Fields”, *ApJ*, 924, 144, January 2022
- [8] Schneider, Adam C.; Meisner, Aaron M.; Gagne, Jonathan; Faherty, Jacqueline K.; Marocco, Federico; Burgasser, Adam J.; Kirkpatrick, J. Davy; Kuchner, Marc J.; Gramaize, Leopold; Rothermich, Austin; Brooks, Hunter; Vrba, Frederick J.; Bardalez Gagliuffi, Daniella; Caselden, Dan; Cushing, Michael C.; Gelino, Christopher R.; Line, Michael R.; Casewell, Sarah L.; Debes, John H.; Aganze, Christian; Ayala, Andrew; Gerasimov, Roman; Gonzales, Eileen C.; **Hsu, Chih-Chun**; Kiman, Rocio; Popinchalk, Mark; Theissen, Christopher; Backyard Worlds: The Planet 9 Collaboration, “Ross 19B: An Extremely Cold Companion Discovered via the Backyard Worlds: Planet 9 Citizen Science Project”, *ApJ*, 921, 150, November 2021
- [7] Theissen, C. A.; Konopacky, Q. M.; Lu, J. R.; Kim D.; Zhang, S. Y.; **Hsu, C.**; Chu, L.; Wei, L., “The 3-D Kinematics of the Orion Nebula Cluster: NIRSPECAO Radial Velocities of the Core Population”, *ApJ*, 926, 141, February 2022
- [6] Meisner, Aaron M.; Schneider, Adam C.; Burgasser, Adam J.; Marocco, Federico; Line, Michael R.; Faherty, Jacqueline K.; Kirkpatrick, J. Davy; Caselden, Dan; Kuchner, Marc J.; Gelino, Christopher R.; Gagne, Jonathan; Theissen, Christopher; Gerasimov, Roman; Aganze, Christian; **Hsu, Chih-Chun**; Wisniewski, John P.; Casewell, Sarah L.; Bardalez Gagliuffi, Daniella C.; Logsdon, Sarah E.; Eisenhardt, Peter R. M., “New Candidate Extreme T Subdwarfs from the Backyard Worlds: Planet 9 Citizen Science Project”, *ApJ*, 915, 120, July 2021

- [5] J. Davy Kirkpatrick; Christopher R. Gelino; Jacqueline K. Faherty; Aaron M. Meisner; Dan Caselden; Adam C. Schneider; Federico Marocco; Alfred J. Cayago; R. L. Smart; Peter R. Eisenhardt; Marc J. Kuchner; Edward L. Wright; Michael C. Cushing; Katelyn N. Allers; Daniella C. Bardalez Gagliuffi; Adam J. Burgasser; Jonathan Gagne; Sarah E. Logsdon; Emily C. Martin; James G. Ingalls; Patrick J. Lowrance; Ellianna S. Abrahams; Christian Aganze; Roman Gerasimov; Eileen C. Gonzales; **Chih-Chun Hsu**; Nikita Kamraj; Rocio Kiman; Jon Rees; Christopher Theissen; Kareem Ammar; Nikolaj Stevnbak Andersen; Paul Beaulieu; Guillaume Colin; Charles A. Elachi; Samuel J. Goodman; Leopold Gramaize; Leslie K. Hamlet; Justin Hong; Alexander Jonkeren; Mohammed Khalil; David W. Martin; William Pendrill; Benjamin Pumphrey; Austin Rothermich; Arttu Sainio; Andres Stenner; Christopher Tanner; Melina Thevenot; Nikita V. Voloshin; Jim Walla; Zbigniew Wedrcki; “The Field Substellar Mass Function Based on the Full-sky 20-pc Census of 525 L, T, and Y Dwarfs”, *ApJS*, 253, 7, March 2021
- [4] Sahlmann, Johannes; Dupuy, Trent J.; Burgasser, Adam J.; Filippazzo, Joseph C.; Martín, Eduardo L.; Bardalez Gagliuffi, Daniella C.; **Hsu, Chih-Chun**; Lazorenko, Petro F.; Liu, Michael C., “Individual Dynamical Masses of DENIS J063001.4–184014AB Reveal A Likely Young Brown Dwarf Triple”, *MNRAS*, 500, 5453, January 2021
- [3] Meisner, Aaron M.; Faherty, Jacqueline K.; Kirkpatrick, J. Davy; Schneider, Adam C.; Caselden, Dan; Gagné, Jonathan; Kuchner, Marc J.; Burgasser, Adam J.; Casewell, Sarah L.; Debes, John H.; Artigau, Étienne; Bardalez Gagliuffi, Daniella C.; Logsdon, Sarah E.; Kiman, Rocio; Allers, Katelyn; **Hsu, Chih-Chun**; Wisniewski, John P.; Allen, Michaela B.; Beaulieu, Paul; Colin, Guillaume Durantini Luca, Hugo A.; Goodman, Sam; Gramaize, Léopold; Hamlet, Leslie K.; Hinckley, Ken; Kiwy, Frank; Martin, David W.; Pendrill, William; Rothermich, Austin; Sainio, Arttu; Schümann, Jörg; Andersen, Nikolaj Stevnbak; Tanner, Christopher; Thakur, Vinod; Thévenot, Melina; Walla, Jim; Wedrcki, Zbigniew; Aganze, Christian; Gerasimov, Roman; Theissen, Christopher; The Backyard Worlds: Planet 9 Collaboration, “Spitzer Follow-up of Extremely Cold Brown Dwarfs Discovered by the Backyard Worlds: Planet 9 Citizen Science Project”, *ApJ*, 889, 123, August 2020
- [2] Schneider, Adam C.; Burgasser, Adam J.; Gerasimov, Roman; Marocco, Federico; Gagné, Jonathan; Goodman, Sam; Beaulieu, Paul; Pendrill, William; Rothermich, Austin; Sainio, Arttu; Kuchner, Marc J.; Caselden, Dan; Meisner, Aaron M.; Faherty, Jacqueline K.; Mamajek, Eric E.; **Hsu, Chih-Chun**; Greco, Jennifer J.; Cushing, Michael C.; Kirkpatrick, J. Davy; Bardalez-Gagliuffi, Daniella Logsdon, Sarah E.; Allers, Katelyn; Debes, John H.; Backyard Worlds: Planet 9 Collaboration, “WISEA J041451.67-585456.7 and WISEA J181006.18-101000.5: The First Extreme T-type Subdwarfs?”, *ApJ*, 989, 77, July 2020
- [1] Paudel, R. R., Gizis, J. E., Burgasser, A. J., **Hsu, C.**, “2MASS J10274572+0629104: the very short period young M6 dwarf binary system identified in K2 data”, *MNRAS*, 486, 4144, July 2019

NON-  
REFEREED  
PUBLICATIONS

- [4] Valencia, Julissa Villalobos ; Burgasser, Adam J.; **Hsu, Chih-Chun**; Aganze, Christian, “Spectral Characterization of the Low-mass Companion  $\mu$  Virgenes B”, *RNAAS*, 6, 670, December 2022
- [3] Schapera, Noah; Caselden, Dan; Meisner, Aaron M.; Burgasser, Adam J.; Schneider, Adam C.; Humphreys, Austin; **Hsu, Chih-Chun**; Softich, Emma; Smith, Leigh C.; Lucas, Philip W.; Kirkpatrick, J. Davy; Marocco, Federico; Faherty, Jacqueline K.; Kuchner, Marc J.; Cushing, Michael C.; Backyard Worlds:

Cool Neighbors Collaboration, “VVV J165507.19-421755.5: A Nearby T Dwarf Hidden in the Galactic Plane”, RNAAS, 6, 189, September 2022

- [2] Theissen, Christopher A.; Burgasser, Adam J.; Martin, Emily C.; Cushing, Michael C.; Konopacky, Quinn M.; McLean, Ian S.; **Hsu, Chih-Chun**; Bardalez Gagliuffi, Daniella C.; Schneider, Adam C.; Kuchner, Marc J.; Faherty, Jacqueline K.; Beichman, Charles A.; Miles, Brittany; Skemer, Andy; Logsdon, Sarah E.; Meisner, Aaron M.; Kirkpatrick, J. Davy, “Keck NIRES Spectral Standards for L, T, and Y Dwarfs”, RNAAS, 6, 151, July 2022
- [1] Low, Ryan; Burgasser, Adam J.; Reylé, Céline; Gerasimov, Roman; **Hsu, Chih-Chun**; Theissen, Christopher A, “Spectroscopic Confirmation of an M6 Dwarf Companion to the Nearby Star BD-08 2582”, RNAAS, 5, 26, February 2021

## TALKS

“Kinematics and Multiplicity of Ultracool Dwarfs with High-Resolution Near-Infrared Spectroscopy” November 16, 2022  
Northwestern CIERA Observational Astronomy Meeting, Evanston, IL

“Kinematics, Rotation, and Multiplicity of Ultracool Dwarfs with High-Resolution Near-Infrared Spectroscopy” 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” 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

“Ultracool Dwarf Kinematics and Ages Revealed by High-Resolution Spectroscopy” November 13, 2020  
CASS Journal Club, UC San Diego, La Jolla, CA

“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” 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

*“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

## PRESS COVERAGE

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

## WORKSHOPS

*Future Keck IR Spectroscopy Workshop*  
Virtual  
January 27 2021

*High-Resolution Infrared Spectroscopy for Exoplanet Characterization Hackathon*  
February 4–6 2020  
Caltech, Pasadena, CA

	<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>TELESCOPE TIME AWARDED</b>	<p><i>Lick Observatory</i> PI: <b>2022B</b>: “Calibrations of Chemical Abundances of Ultracool Dwarfs in Wide Binary Systems with Optical High-Resolution Spectroscopy of G-Type Primaries”</p> <ul style="list-style-type: none"> <li>• 1 night awarded (APF)</li> </ul> <p><i>W. M. Keck Telescopes, Keck II 10-meter</i> Co-I: <b>2021B–2022B</b>: “Galactic Archaeology with Ultracool Dwarfs: Kinematic Structure Among L Dwarfs”</p> <ul style="list-style-type: none"> <li>• 5.25 nights awarded (NIRSPEC)</li> </ul> <p>Co-I: <b>2021B–2022B</b>: “The Old and the Quick: A Search for Halo Brown Dwarfs with Backyard Worlds”</p> <ul style="list-style-type: none"> <li>• 5.5 nights awarded (NIREs)</li> </ul> <p>Co-I: <b>2019B–2020B</b>: “Completing the Kinematic Census of Local T Dwarfs”</p> <ul style="list-style-type: none"> <li>• 5.75 nights awarded (NIRSPEC)</li> </ul> <p>Co-I: <b>2018B–2021A</b>: “NIREs Follow-up of Young T Dwarfs from Backyard Worlds”</p> <ul style="list-style-type: none"> <li>• 9 nights awarded (NIREs)</li> </ul> <p><i>NASA InfraRed Telescope Facility (IRTF)</i> Co-I: <b>2018A–2019B</b>: “Training the Cannon: Calibrating APOGEE Observations of Ultracool Dwarfs”</p> <ul style="list-style-type: none"> <li>• 6 nights awarded (iSHELL)</li> </ul>	
<b>ADDITIONAL OBSERVING EXPERIENCE</b>	<p><i>Keck II 10-meter/NIRSPEC 7 nights</i></p> <p><i>Keck I 10-meter/HIRES 0.5 nights</i></p> <p><i>Shane Telescope 3-meter</i></p> <ul style="list-style-type: none"> <li>• Kast Double Spectrograph: 22 nights</li> <li>• ShaneAO/ShARCS: 1 night</li> </ul> <p><i>NASA InfraRed Telescope Facility (IRTF)/SpeX 2 nights</i></p>	<p>2017–2018</p> <p>2018</p> <p>2018–2021</p> <p>2019</p> <p>2021–2022</p>
<b>UNDERGRAD MENTORSHIP</b>	<p>Brigette Vazquez, UC San Diego</p> <p>Delilah Jacobsen, UC San Diego</p> <p>Tianxing “Sky” Zhou, UC San Diego</p>	<p>2021–2022</p> <p>2021–2022</p> <p>2021–2022</p>
<b>TEACHING</b>	<p><i>Guest lectures for ASTRON 441</i> Northwestern University, Evanston, IL</p> <ul style="list-style-type: none"> <li>• workshops on Overleaf and reading academic papers for first- and second-year astronomy Ph.D. students</li> </ul>	October 25 and 27 2022

	<i>Teaching assistant for PHYS 2D</i> UC San Diego, La Jolla, CA <ul style="list-style-type: none"> <li>• lower-division modern physics lecture for engineering/physical science majors</li> </ul>	Spring 2021
	<i>Teaching assistant for PHYS 5</i> UC San Diego, La Jolla, CA <ul style="list-style-type: none"> <li>• lower-division introductory stellar astrophysics lecture for non-physics major</li> </ul>	Fall 2020
	<i>Teaching assistant for PHYS 2DL</i> UC San Diego, La Jolla, CA <ul style="list-style-type: none"> <li>• lower-division modern physics lab for engineering/physical science majors</li> </ul>	Spring & Fall 2017, 2019, Spring 2020, Fall 2021
	<i>Teaching assistant for PHYS 1A</i> UC San Diego, La Jolla, CA <ul style="list-style-type: none"> <li>• lower-division mechanics lab for life-science majors</li> </ul>	Spring 2018
	<i>Teaching assistant for PHYS 160</i> UC San Diego, La Jolla, CA <ul style="list-style-type: none"> <li>• upper-division introductory stellar astrophysics lecture for physics major</li> </ul>	Winter 2018, Fall 2018
	<i>Teaching assistant for PHYS 2BL</i> 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>	Fall 2016, Winter 2017
	<i>California Professoriate for Access to Physics Careers (CPAPC)</i> <i>Southern California Physics GRE Bootcamp</i> <ul style="list-style-type: none"> <li>• UC San Diego, La Jolla, CA</li> </ul>	August 2017
<b>PUBLIC OUTREACH</b>	<b>Python Workshop for Physics Undergraduate Students</b> <ul style="list-style-type: none"> <li>• UC San Diego, La Jolla, CA</li> </ul>	November 2019–2021
	<b>2019 Institute for Scientist &amp; Engineer Educators (ISEE) Professional Development Program (PDP)</b> 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>	March–September 2019
	<b>Institute of the Americas (IOA) Science Innovation Camp</b> 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>	July 20 2017
	<b>The Barrio Logan Science &amp; Art Expo</b> 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>	March 16 2019
<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)	
<b>REFERENCES</b>	<b>Dr. Adam Burgasser</b> Professor of Physics	



University of California San Diego  
9500 Gilman Drive 0424, La Jolla, California 92093-0424, USA  
aburgasser at ucsd.edu

**Dr. Quinn Konopacky**

Associate Professor of Physics  
University of California San Diego  
9500 Gilman Drive 0424, La Jolla, California 92093-0424, USA  
qkonopacky at ucsd.edu

**Dr. Cullen Blake**

Associate Professor of Physics and Astronomy  
University of Pennsylvania  
209 South 33rd Street, Philadelphia, PA 19104, USA  
chblake at sas.upenn.edu

[*CV compiled on 2023/01/05*]