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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 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 June 2014

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

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

Graduate Research Student 2016–2022
Center for Astrophysics and Space Sciences, UC San Diego, La Jolla, CA
Advisor: Adam J. Burgasser

Research Assistant 2015–2016
Institute of Astronomy, National Tsing Hua University, Hsinchu, Taiwan
Supervisor: Huei-Ru “Vivien” Chen

Undergraduate Research Student 2013–2014
Physics Department, National Tsing Hua University, Hsinchu, Taiwan
Advisor: Kingman Cheung

ACADEMIC HONORS & AWARDS **Cool Stars 21 Travel Grant** July 2022
Cool Stars 21st Meeting, Toulouse, France

Rodger Doxsey Travel Prize June 2022
AAS 240th 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 239th 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 2019–2020
 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.; 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*”, submitted to AAS Journals.
- [3] **Hsu, C.**; Wang, J. J.; Xuan, J. W.; Ruffio, J.-B.; Morris, E.; Echeverri, D.; Xin, Y.; Liberman, J.; Finnerty, L.; Hortsman, K.; Sappey 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., “*Rotation and Abundances of the Benchmark Brown Dwarf HD 33632 Ab from Keck/KPIC High-resolution Spectroscopy*”, submitted to AAS Journals.
- [2] **Hsu, C.**; Burgasser, A. J.; Theissen, C. A., “*Discovery of the Exceptionally Short Period Ultracool Dwarf Binary LP 413-53AB*”, ApJL, 945, L6, March 2023
- [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

- [25] Lingfeng Wei, Christopher A. Theissen, Quinn M. Konopacky, Jessica R. Lu, **Chih-Chun Hsu**, Dongwon Kim, “*The 3D Kinematics of the Orion Nebula*”

- [24] J. Davy Kirkpatrick, Federico Marocco, Christopher R. Gelino, Yadukrishna Raghu, Jacqueline K. Faherty, Daniella C. Bardalez Gagliuffi, Steven D. Schurr, Kevin Apps, Adam C. Schneider, Aaron M. Meisner, Marc J. Kuchner, Dan Caselden, R. L. Smart, S. L. Casewell, Roberto Raddi, Aurora Kesseli, Nikolaj Stevnbak Andersen, Edoardo Antonini, Paul Beaulieu, Thomas P. Bickle, Martin Bilsing, Raymond Chieng, Guillaume Colin, Sam Deen, Alexandru Dereveanco, Katharina Doll, Hugo A. Durantini Luca, Anya Frazer, Jean Marc Gantier, Léopold Gramaize, Kristin Grant, Leslie K. Hamlet, Hiro Higashimura, Michiharu Hyogo, Peter A. Jafowiczor, Alexander Jonkeren, Martin Kabatnik, Frank Kiwy, David W. Martin, Marianne N. Michaels, William Pendrill, Celso Pessanha Machado, Benjamin Pumphrey, Austin Rothermich, Rebekah Russwurm, Arttu Sainio, John Sanchez, Fyodor Theo Sapelkin-Tambling, Jörg Schumann, Karl Selg-Mann, Harshdeep Singh, Andres Stenner, Guoyou Sun, Christopher Tanner, Melina Thévenot, Maurizio Ventura, Nikita V. Voloshin, Jim Walla, Zbigniew Wedracki, Jose I. Adorno, Christian Aganze, Katelyn N. Allers, Hunter Brooks, Adam J. Burgasser, Emily Calamari, Thomas Connor, Edgardo Costa, Peter R. Eisenhardt, Jonathan Gagné, Roman Gerasimov, Eileen C. Gonzales, **Chih-Chun Hsu**, Rocio Kiman, Guodong Li, Ryan Low, Eric Mamajek, Blake M. Pantoja, Mark Popinchalk, Jon M. Rees, Daniel Stern, Genaro Suárez, Christopher Theissen, Chao-Wei Tsai, Johanna M. Vos, David Zurek, The Backyard Worlds: Planet 9 Collaboration, “The Initial Mass Function Based on the Full-sky 20-pc Census of $\sim 3,600$ Stars and Brown Dwarfs”, Accepted in ApJS, December 2023
- [23] Jerry W. Xuan, Jason J. Wang, Luke Finnerty, Katelyn Horstman, Simon Grimm, Anne Peck, Eric L. Nielsen, Heather A. Knutson, Dimitri Mawet, Howard Isaacson, Andrew W. Howard, Michael C. Liu, Sam Walker, Mark Phillips, Geoffrey Blake, Jean-Baptiste Ruffio, Yapeng Zhang, Julie Inglis, Nicole L. Wallack, Aniket Sanghi, Erica Gonzales, Fei Dai, Ashley Baker, Randall Bartos, Charlotte Bond, Marta L. Bryan, Benjamin Calvin, Sylvain Cetre, Jacques-Robert Delorme, Greg Doppmann, Daniel Echeverri, Michael P. Fitzgerald, Nemanja Jovanovic, Joshua Liberman, Ronald A. López, Emily C. Martin, Evan Morris, Jacklyn Pezzato, Garreth Ruane, Ben Sapprey, Tobias Schofield, Andrew Skemer, Taylor Venenciano, James K. Wallace, Ji Wang, Peter Wizinowich, Yinzi Xin, Shubh Agrawal, Clarissa R. Do Ó, **Chih-Chun Hsu**, Caprice Phillips, “Validation of elemental and isotopic abundances in late-M spectral types with the benchmark HIP 55507 AB system”, Accepted in ApJ, December 2023
- [22] Luke Finnerty, Jerry W. Xuan, Yinzi Xin, Joshua Liberman, Tobias Schofield, Michael P. Fitzgerald, Shubh Agrawal, Ashley Baker, Randall Bartos, Geoffrey A. Blake, Benjamin Calvin, Sylvain Cetre, Jacques-Robert Delorme, Greg Doppman, Daniel Echeverri, **Chih-Chun Hsu**, Nemanja Jovanovic, Ronald A. López, Emily C. Martin, Dimitri Mawet, Evan Morris, Jacklyn Pezzato, Jean-Baptiste Ruffio, Ben Sapprey, Andrew Skemer, Taylor Venenciano, J. Kent Wallace, Nicole L. Wallack, Jason J. Wang, Ji Wang, “Atmospheric metallicity and C/O of HD 189733 b from high-resolution spectroscopy”, Accepted in AJ, December 2023
- [21] 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;

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- [20] Grady Robbins, Aaron M. Meisner, Adam C. Schneider, Adam J. Burgasser, J. Davy Kirkpatrick, Jonathan Gagne, **Chih-Chun Hsu**, Leslie Moranta, Sarah Casewell, Federico Marocco, Roman Gerasimov, Jacqueline K. Faherty, Marc J. Kuchner, Dan Caselden, Michael C. Cushing, Sherelyn Alejandro, The Backyard Worlds: Planet 9 Collaboration, The Backyard Worlds: Cool Neighbors Collaboration, “CWISE J105512.11+544328.3: A Nearby Y Dwarf Spectroscopically Confirmed with Keck/NIRES”, ApJ, 958, 94, November 2023
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- [13] 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
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- [10] 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
- [9] Gagliano, Alexander; Izzo, Luca; Kilpatrick, Charles D.; Mockler, Brenna; Jacobson-Galán, Wynn Vincente; Terreran, Giacomo; Dimitriadis, Georgios; Zenati, Yossef; Auchettl, Katie; Drout, Maria R.; Narayan, Gautham; Foley, Ryan J.; Margutti, R.; Rest, Armin; Jones, D. O.; Aganze, Christian; Aleo, Patrick D.; Burgasser, Adam J.; Coulter, D. A.; Gerasimov, Roman; Gall, Christa; Hjorth, Jens; **Hsu, Chih-Chun**; Magnier, Eugene A.; Mandel, Kaisey S.; Piro, Anthony L.; Rojas-Bravo, César; Siebert, Matthew R.; Stacey, Holland; Stroh, Michael Cullen; Swift, Jonathan J.; Taggart, Kirsty; Tinyanont, Samaporn, “An Early-time Optical and Ultraviolet Excess in the Type-Ic SN 2020oi”, ApJ, 924, 55, January 2022
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- 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
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- [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,

NON-
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- [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
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TALKS

“*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*” January 10, 2023

AAS 241 Meeting Press Conference, Seattle Convention Center, Seattle, WA

“*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

“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”
Cool Stars 20, Boston University, Cambridge, MA

July 2018

**PRESS
COVERAGE**

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

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

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

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

WORKSHOPS

2023 Sagan Summer Workshop July 24–28 2023
Caltech, Pasadena, CA

Future Keck IR Spectroscopy Workshop January 27 2021
Virtual

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

Telluric Line Hack Week Workshop February 25–28 2019
Flatiron Institute, New York, NY

2017 Kraft Observational Astronomy Workshop October 12–16 2017
Lick Observatory, Mount Hamilton, CA

SciCoder Workshop July 31–August 4 2017
Vanderbilt University, Nashville, TN

**TELESCOPE
TIME
AWARDED**

W. M. Keck Telescopes, Keck II 10-meter
PI: **2023B–2024A**: “Precise Characterization of M Dwarf Exoplanet Host Abun-
dances for KPIC”

- 1.0 night awarded (NIRSPEC)

Co-I: **2021B–2022B**: “Galactic Archaeology with Ultracool Dwarfs: Kinematic
Structure Among L Dwarfs”

- 5.25 nights awarded (NIRSPEC)

Co-I: **2021B–2022B**: “The Old and the Quick: A Search for Halo Brown Dwarfs

with Backyard Worlds”

- 5.5 nights awarded (NIRES)

Co-I: **2019B–2020B**: “Completing the Kinematic Census of Local T Dwarfs”

- 5.75 nights awarded (NIRSPEC)

Co-I: **2018B–2021A**: “NIRES Follow-up of Young T Dwarfs from Backyard Worlds”

- 9 nights awarded (NIRES)

MMT Observatory

PI: **2023B**: “Abundance Calibration of Ultracool Dwarfs Using FGK Wide- Binaries with MMT Hectochelle”

- 1 night 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)

NASA InfraRed Telescope Facility (IRTF)

PI: **2022B**: “Discovery of an Exceptionally Short-Period Very Low Mass Binary”

- 3 nights awarded (iSHELL)

PI: **2023B**: “Discovery of an Exceptionally Short-Period Very Low Mass Binary”

- 3 nights awarded (iSHELL)

Co-I: **2018A–2019B**: “Training the Cannon: Calibrating APOGEE Observations of Ultracool Dwarfs”

- 6 nights awarded (iSHELL)

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

MENTORSHIP

Julianne Cronin, graduate student at Northwestern University

2023–present

Allie Salyga, undergraduate student at Northwestern University

2023–present

Brigitte Vazquez, undergraduate student at UC San Diego

2021–2022

Delilah Jacobsen, undergraduate student at UC San Diego

2021–2022

Tianxing “Sky” Zhou, undergraduate student at UC San Diego

2021–2022

TEACHING

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 of 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 of 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

- upper-division introductory stellar astrophysics lecture for physics major

Teaching assistant for PHYS 2BL Fall 2016, Winter 2017
UC San Diego, La Jolla, CA

- lower-division electricity & magnetism lab for engineering/physics major

California Professoriate for Access to Physics Careers (CPAPC)
Southern California Physics GRE Bootcamp August 2017

- UC San Diego, La Jolla, CA

PUBLIC OUTREACH

Astronomy on Tap Chicago (invited) February 9th, 2023
Begyle Brewing, Chicago, IL

- Famous astronomy outreach program to general public
- “Discovery of the Closest-Separated, Fastest-Orbiting Ultracool Dwarf Couple”

Python Workshop for Physics Undergraduate Students
UC San Diego, La Jolla, CA 2019–2021 November

- Python-programming bridge program for transferred students to UC San Diego

2019 Institute for Scientist & Engineer Educators (ISEE)
Professional Development Program (PDP) March–September 2019
UC Santa Cruz/UC Los Angeles, CA

- 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.

	Institute of the Americas (IOA) Science Innovation Camp	July 20 2017
	UC San Diego, La Jolla, CA	
	<ul style="list-style-type: none"> • Physics outreach for Latin American high school students (14–18 year old) 	
	The Barrio Logan Science & Art Expo	March 16 2019
	Mercado del Barrio, San Diego, CA	
	<ul style="list-style-type: none"> • Physics outreach for Mexican families from around southern San Diego 	
REFEREE	The Astrophysical Journal Letters	2023
	Gemini observing proposal (2023A)	2022
SERVICE	Co-organizer of the CIERA Observers Group Meetings	2023 Fall–present
PROFESSIONAL AFFILIATIONS	American Astronomical Society (AAS)	2018–Present
SKILLS	Python, L ^A T _E X, Github, HTML; Languages: Mandarin (native), English (fluent)	
REFERENCES	<p>Dr. Adam Burgasser Professor of Physics University of California San Diego 9500 Gilman Drive 0424, La Jolla, California 92093-0424, USA aburgasser at ucsd.edu</p> <p>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</p> <p>Dr. Christopher Theissen Assistant Professor of Astronomy University of California San Diego 9500 Gilman Drive 0424, La Jolla, California 92093-0424, USA ctheissen at ucsd.edu</p> <p>Dr. Jason Wang Assistant Professor of Physics and Astronomy Northwestern University 2145 Sheridan Road, Evanston, IL 60208-3112, USA jason.wang at northwestern.edu</p>	

[CV compiled on 2024/01/20]