Chih-Chun "Dino" Hsu

Center for Interdisciplinary Exploration and Research in Astrophysics (CIERA), Northwestern University
1800 Sherman Ave, 8th Floor, Evanston, IL 60201, USA
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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 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 239 th 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.; 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.; Theissen, C. A.,"*Discovery of the Exceptionally Short Period Ultracool Dwarf Binary LP 413-53AB*", submitted to ApJ Letters

[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

[14] Schneider, Adam C.; Burgasser, Adam J.; Bruursema, Justice; Munn, Jeffrey A.; Vrba, Frederick J.; Caselden, Dan; Kabatnik, Martin; Rothermich, Austin; Sainio, Arttu; Bickle, Thomas P.; Dahm, Scott E.; Meisner, Aaron M.; Kirkpatrick, J. Davy; Suarez, Genaro; Gagne, Jonathan; Faherty, Jacqueline K.; Vos, Johanna M.; Kuchner, Marc J.; Williams, Stephen J.; Bardalez Gagliuffi,

Daniella; Aganze, Christian; **Hsu, Chih-Chun**; Theissen, Christopher; Cushing, Michael C.; Marocco, Federico; Casewell, Sarah; Backyard Worlds: Planet 9 Collaboration, "Redder than Red: Discovery of an Exceptionally Red L/T Transition Dwarf", arXiv:2301.02322, Accepted to ApJ Letters, January 2023

[13] Kiwy, Frank; Faherty, Jacqueline K.; Meisner, Aaron; Schneider, Adam C.; Kirkpatrick, J. Davy; Kuchner, Marc J.; Burgasser, Adam J.; Casewell, Sarah; Kiman, Rocio; Calamari, Emily; Aganze, Christian; **Hsu, Chih-Chun**; Sainio, Arttu; Thakur, Vinod; The Backyard Worlds: Planet 9 Collaboration, "Discovery 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, Nikolaj 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: NIRSPEC-AO 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 Wedracki; "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; Wędracki, 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 μ 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

"Discovery of the Shortest-Period Ultracool Dwarf Binary" January 11, 2022
AAS 241 Meeting, Seattle Convention Center, Seattle, WA

"Discovery of the Shortest-Period Ultracool Dwarf Binary" January 10, 2022
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

"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

"*Ultracool dwarf binary stars break records* ",
Northwestern Press Release, 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

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

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)

W. M. Keck Telescopes, Keck II 10-meter
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)

NASA InfraRed Telescope Facility (IRTF)
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

UNDERGRAD MENTORSHIP

Brigette Vazquez, UC San Diego 2021–2022
Delilah Jacobsen, UC San Diego 2021–2022
Tianxing "Sky" Zhou, UC San Diego 2021–2022

TEACHING

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

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

2019 Institute for Scientist & Engineer Educators (ISEE) Professional Development Program (PDP) March–September 2019
UC Santa Cruz/UC Los Angeless, 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
- 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
- Physics outreach for Mexican families from around southern San Diego

PROFESSIONAL AFFILIATIONS

American Astronomical Society (AAS) 2018–Present

SKILLS

Python, LaTeX, Github, HTML; Languages: Mandarin (native), English (fluent)

REFERENCES

Dr. Adam Burgasser
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University of California San Diego
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[*CV compiled on 2023/01/16*]