

Kevin Charles Schlaufman

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Professional Appointments

Associate Professor , William H. Miller III Department of Physics & Astronomy, JHU	2024 – Present
Assistant Professor , William H. Miller III Department of Physics & Astronomy, JHU	2017 – 2024
Carnegie-Princeton Fellow , Carnegie Observatories and Princeton University	2015 – 2016
Kavli Fellow , Kavli Institute for Astrophysics and Space Research, MIT	2012 – 2015
Senior Data Scientist , LinkedIn Corporation	2011 – 2012

Education

UC Santa Cruz , MS and PhD in Astronomy and Astrophysics	2006 – 2011
Stanford University , MS in Scientific Computing and Computational Mathematics <i>Statistics Concentration</i>	2004 – 2006
Penn State , BS in Mathematics and BS in Astronomy and Astrophysics <i>Honors and High Distinction plus minor in Physics</i>	2000 – 2004

Honors and Awards

Early Science with the LSST Scialog Fellowship , Research Corporation for Science Advancement <i>Recognized as an early career faculty member with the potential to expand research in a focused area of high scientific importance</i>	2024
Faculty Early Career Development Program (CAREER) Award , National Science Foundation <i>Recognized as an early career faculty member with the potential to serve as an academic role model in research and education</i>	2024
Tuве Fellowship , Carnegie Institution for Science Earth & Planets Laboratory <i>Recognized as a distinguished researcher and brought to Carnegie's EPL to enhance its intellectual environment</i>	2023
Infinite Kilometer Award , MIT School of Science <i>Recognized for routinely working beyond my assigned responsibilities and for exceptional contributions to the community</i>	2013
Chancellor's Dissertation-Year Fellowship , UC Santa Cruz Graduate Division <i>Recognized as part of the top 10% of my PhD graduating class and awarded \$35,000 grant</i>	2010 – 2011
Graduate Research Fellowship , National Science Foundation <i>Recognized as part of the top 5% of all science and engineering PhD students nationwide and awarded \$121,500 grant</i>	2007 – 2010
Whitford Prize , UC Santa Cruz Astronomy and Astrophysics Department <i>Recognized as outstanding overall student in the first two years of the PhD program</i>	2008
Marshal Award , Penn State Astronomy and Astrophysics Department <i>Recognized as the top undergraduate major in my graduating class</i>	2004
Evan Johnson Award , Penn State Mathematics Department <i>Recognized as one of the top students in the mathematics major</i>	2003 & 2004
Kermit C. Anderson Scholarship , Penn State Mathematics Department <i>Recognized as one of the top students in the mathematics major</i>	2003
Evan Pugh Scholar Award (Senior) , Penn State <i>Recognized as top 0.5% percent of graduating class</i>	2003
Elected to ΦBK , Penn State	2003

Principal Investigator Grants

NSF Faculty Early Career Development Program (\$656,265) <i>CAREER: The Most Ancient Stars in the Milky Way</i>	2024 – 2029
JPL Keck 2025A Principal Investigator Data Award (\$16,325) <i>A Measurement of Primordial Stellar Obliquity in a Wide-separation Giant Planet System</i>	2024 – 2026
NSF Astronomy and Astrophysics Research Grant (\$633,401) <i>All-sky Precise Stellar Ages for Galactic and Stellar Archaeology</i>	2023 – 2026
NASA Exoplanets Research Program (\$549,052) <i>Exploring Planet Formation with Accurate, Precise, and Homogeneous Host Star & Exoplanet</i>	2023 – 2026

Atmospheric Elemental Abundance Inferences

NASA Astrophysics Data Analysis Program (\$482,657)	2021 – 2025
<i>Galactic and Stellar Archaeology with Archival GALEX, 2MASS, and WISE Data</i>	
NSF Astronomy and Astrophysics Research Grant (\$367,859)	2020 – 2024
<i>Exoplanet System Ages from Galactic Kinematics and their Impact on Planet Formation and Evolution</i>	
JPL Keck 2022A Principal Investigator Data Award (\$20,000)	2022 – 2024
<i>Galactic and Stellar Archaeology with Keck and Kepler</i>	
NASA TESS Guest Investigator Program Cycle 2 (\$50,000)	2020 – 2023
<i>Using the Metallicity Effect for Small Planets to Explore Planet Formation</i>	
Simons Foundation Flatiron Institute Sabbatical Visiting Researcher Program (\$87,330)	2021
Maryland Space Grant Consortium (\$20,000)	2020
<i>A Research Fellowship Program For High-achieving Underrepresented Minorities</i>	
Space@Hopkins Seed Grant (\$21,668)	2018 – 2019
<i>New Insights into Planet Formation with NASA's Transiting Exoplanet Survey Satellite (TESS)</i>	
Maryland Space Grant Consortium (\$14,000)	2018
<i>Undergraduate Research Assistantships in Galactic and Extragalactic Astronomy</i>	

Co-principal Investigator Grants

STScI JWST Cycle 3 General Observer (\$63,796, JHU portion \$59,369)	2025 – 2027
<i>A Giant Planet Candidate Orbiting a Young, Massive White Dwarf (Co-PI Cheng)</i>	
JHU PhD Professional Development Innovation Initiative Program (\$5,000)	2020 – 2022
<i>Physics & Astronomy PhD Program Career Events (Co-PI Zakamska)</i>	

Co-investigator Grants

STScI JWST Cycle 3 General Observer (\$1,143,105, JHU portion \$820,258)	2024 – 2027
<i>JWST's Exoplanet Grand Tour Spectroscopic Survey (PI Sing)</i>	
STScI JWST Cycle 1 General Observer (\$103,495, JHU portion \$60,014)	2023 – 2026
<i>Tracing Hot Jupiter Formation and Migration with Volatile and Refractory Element Ratios (PI Lothringer)</i>	
NASA Exoplanets Research Program (\$624,464)	2022 – 2025
<i>A Three-dimensional Extinction Map for Microlensing Planet Discovery and Characterization (PI Nataf)</i>	
STScI HST Cycle 29 General Observer (\$118,818)	2022 – 2025
<i>A Comparative Study of Planetary Atmospheres in Low-Metallicity Environments (PI Sing)</i>	

Invited Colloquia

Joint Institute for Advanced Study/Princeton University Astrophysics Colloquium	October 2023
<i>The Dynamical Evolution of Exoplanet Systems Over Billions of Years</i>	
Carnegie Earth & Planets Laboratory, General Seminar	November 2022
<i>Exoplanet Host Star Age Inferences and Their Impacts on Models of Planet Formation and Evolution</i>	
Indiana University, Astronomy Department Colloquium	November 2022
<i>Exoplanet Host Star Age Inferences and Their Impacts on Models of Planet Formation and Evolution</i>	
Australian National University, Research School of Astronomy & Astrophysics Colloquium	March 2022
<i>Planet Formation and Evolution Revealed by Exoplanet Host Stars in the Galactic Context</i>	
University of Maryland, College Park, CTC Theory Lunch	November 2021
<i>The Usual Outcomes of the Planet Formation Process in the Solar Neighborhood</i>	
Flatiron Institute, Center for Computational Astrophysics Colloquium	September 2021
<i>Exoplanet Host Star Age Inferences and Their Impacts on Models of Planet Formation and Evolution</i>	
University of Hawaii, Institute for Astronomy Colloquium	September 2021
<i>Exoplanet Host Star Age Inferences and Their Impacts on Models of Planet Formation and Evolution</i>	
University of Chicago, Astro Tuesday Seminar	February 2021
<i>Exoplanet Host Star Age Inferences and Their Impacts on Models of Planet Formation and Evolution</i>	
University of Toronto, Astronomy Colloquium	February 2021
<i>Exoplanet Host Star Age Inferences and Their Impacts on Models of Planet Formation and Evolution</i>	
Johns Hopkins University, Henry A. Rowland Department of Physics & Astronomy Colloquium	September 2020
<i>The Formation, Structure, and Evolution of the Most Commonly Found Planets in the Galaxy</i>	
Carnegie Institution for Science, Department of Terrestrial Magnetism Weekly Seminar	May 2019
<i>Planet Formation and Evolution in the Big Data Era</i>	
Columbia University, Department of Astronomy Colloquium	February 2019

<i>An Extraordinary Ancient Binary Star System</i>	
Johns Hopkins University , Faculty Forum	February 2019
<i>Planets Around Other Stars and the Search for Other Earths</i>	
Notre Dame University , Department of Physics Astrophysics Seminar	January 2019
<i>The Maximum Masses of Planets and the Minimum Metallicities of Long-lived Stars</i>	
Johns Hopkins University , IDIES Bi-Monthly Seminar	November 2018
<i>The Importance of Broad and Deep Domain Knowledge in Data Intensive Engineering and Science</i>	
Yale University , Department of Astronomy Colloquium	April 2018
<i>The Maximum Mass of a Planet</i>	
Space Telescope Science Institute , Joint JHU/STScI Colloquium	February 2018
<i>The Maximum Mass of a Planet</i>	
Johns Hopkins University , Henry A. Rowland Department of Physics & Astronomy Colloquium	February 2017
<i>What is—and is not—a Planet</i>	
Carnegie Institution for Science , Observatories Colloquium	November 2016
<i>The Origin of Hot Jupiters</i>	
The Ohio State University , Department of Astronomy Colloquium	November 2015
<i>The Origin and Fate of Hot Jupiters</i>	
California Institute of Technology , Division of Geological and Planetary Sciences Seminar	November 2015
<i>The Origin of Planets Found Close to Their Host Star</i>	
Johns Hopkins University , Henry A. Rowland Department of Physics & Astronomy Colloquium	April 2015
<i>Data-Intensive Astrophysics in the 21st Century: The Oldest Stars and the Origin of Hot Jupiters</i>	
Leiden University , Leiden Observatory Colloquium	March 2015
<i>Data-Intensive Astrophysics in the 21st Century: The Oldest Stars and the Origin of Hot Jupiters</i>	
UC Berkeley , Astronomy Department Colloquium	March 2015
<i>Data-Intensive Astrophysics in the 21st Century: The Oldest Stars and the Origin of Hot Jupiters</i>	
University of Toronto , Dunlap Institute for Astronomy and Astrophysics Colloquium	February 2015
<i>Data-Intensive Astrophysics in the 21st Century: The Oldest Stars and the Origin of Hot Jupiters</i>	
Princeton University , Department of Astrophysical Sciences Colloquium	February 2015
<i>Data-Intensive Astrophysics in the 21st Century: The Oldest Stars and the Origin of Hot Jupiters</i>	
Johns Hopkins University , Henry A. Rowland Department of Physics & Astronomy Colloquium	March 2014
<i>Data-Intensive Planet Formation</i>	
University of Virginia , Department of Astronomy Colloquium	March 2014
<i>Data-Intensive Planet Formation</i>	
MIT , Physics Faculty Lunch	September 2013
<i>A Planet Puzzle</i>	

Seminars

Aarhus University , Stellar Astrophysics Centre Seminar	August 2019
<i>The Typical Terrestrial-mass Planet Discovered by Transit Surveys and Its Implications for Planet Formation and Evolution</i>	
University of Copenhagen , DARK Cosmology Centre Seminar	August 2019
<i>An Extraordinary Ancient Binary Star System</i>	
Princeton University/Institute for Advanced Study , Planet/Exoplanet Discussion Group	January 2019
<i>The Giant Planet–Host Star Metallicity Correlation for Hot Stars</i>	
National Optical Astronomy Observatory , Friday Scientific Lunch Talk	May 2018
<i>The Maximum Mass of a Planet</i>	
Yale University , Stellar Tea Talk	November 2013
<i>The Fate of Hot Jupiters</i>	
Harvard-Smithsonian Center for Astrophysics , Solar, Stellar, and Planetary Sciences Seminar	May 2013
<i>The Fate of Hot Jupiters (and the Earth too)</i>	
Boston University , Department of Astronomy Tuesday Lunch Talk	April 2013
<i>The Fate of Hot Jupiters (and the Earth too)</i>	
UC Santa Cruz , Friday Lunch Astrophysics Seminar Hour	September 2011
<i>Kepler Exoplanet Candidate Host Stars Are Preferentially Metal Rich</i>	
Princeton University , Department of Astrophysical Sciences WUNCH Seminar	December 2010
<i>Halo Substructure and Milky Way Formation</i>	
Harvard-Smithsonian Center for Astrophysics , Institute for Theory and Computation Seminar	September 2010
<i>Halo Substructure and Milky Way Formation</i>	
Space Telescope Science Institute , Friday Seminar	September 2010

<i>Halo Substructure and Milky Way Formation</i>	
Penn State , Department of Astronomy and Astrophysics Lunch Talk	September 2010
<i>Halo Substructure and Milky Way Formation</i>	
Stanford University , KIPAC Cosmology Seminar	April 2010
<i>Milky Way Structure and Formation as Revealed By Cold Halo Substructure</i>	
UC Santa Cruz , Summer Friday Lunch Astrophysics Seminar Hour	July 2009
<i>Super-Earth Formation as Revealed by Kepler</i>	
UC Santa Cruz , Summer Friday Lunch Astrophysics Seminar Hour	June 2008
<i>The Signatures of the Ice Line and Modest Type I Migration in the Observed Exoplanet Mass-Semimajor Axis Distribution</i>	
UC Santa Cruz , Friday Lunch Astrophysics Seminar Hour	October 2007
<i>The Stellar Accretion History of the Milky Way Through Halo Substructure</i>	

Invited Conference Talks

JHU/STScI Exoplanet Jamboree	November 2024
<i>Overview of Star & Planet Formation at JHU/STScI</i>	
Planet Characterization in the Solar System and the Galaxy Workshop	February 2024
<i>Observational Biases in Exoplanet Classification</i>	
GRC on the Origins of Solar Systems: Chemical and Dynamical Constraints on Planet Formation	June 2023
<i>Introduction to Jupiter and Giant Planet Formation</i>	
INT 20R-1b: The r-process and the Nuclear EOS after LIGO-Virgo's Third Observing Run	May 2022
<i>The Galactic Chemical Evolution of the Magellanic Clouds Reveal the r-process Enrichment Timescale</i>	
Carnegie Exoplanetary Worlds Workshop	October 2019
<i>The Future of Exoplanet Demographics with Carnegie Facilities</i>	
NASA Goddard-JHU Interaction Day	October 2018
<i>Planet Formation in the Next Decade</i>	
NASA Goddard-JHU Interaction Day	October 2017
<i>Exoplanet Research at JHU</i>	
Chesapeake Bay Area Exoplanet Meeting	October 2017
<i>Exoplanet Research at JHU</i>	
IAUS 317: The General Assembly of Galaxy Halos: Structure, Origin and Evolution	August 2015
<i>The Most Ancient Stars in the Milky Way's Halo</i>	
Planetary Population Synthesis: The Predictive Power of Planet Formation Theory	December 2010
<i>Kepler, Exoplanet Population Synthesis, and Tidal Evolution</i>	

Contributed Conference Talks

Know Thy Star, Know Thy Planet 2	February 2025
<i>Terrestrial Exoplanet Internal Structure Constraints Enabled by Comprehensive Stellar Characterization</i>	
SEEC Symposium: Pathways to Characterizing Non-Transiting Planets	April 2024
<i>The Occurrence of Giant Planets Orbiting B Stars</i>	
Supernova Explosions Conference	August 2023
<i>Iron-rich Metal-poor Stars as Probes of Type Ia Supernovae Explosion Mechanism(s)</i>	
Planetary Systems and the Origins of Life in the Era of JWST	May 2023
<i>The Importance of High-precision Stellar Fundamental Parameter and Elemental Abundance Inferences for JWST Studies of Exoplanet Atmospheres</i>	
The Star-Planet Connection	October 2021
<i>Unbiased Model-independent Relative Ages for Exoplanet Host Stars from Galactic Kinematics</i>	
Towards the Comprehensive Characterization of Exoplanets	April 2021
<i>Exoplanet Host Star Ages from Galactic Kinematics Reveal the Unexpectedly Divergent Fates of HJ and USP Planets</i>	
PLATO ESP 2020 - Planetary interiors and system architectures	December 2020
<i>The Impact of PLATO-based Planet Occurrence and Mass-radius Analyses on the Terrestrial-mass Planet Formation Timescale</i>	
Exoplanet Demographics	November 2020
<i>The Typical Planets Discovered by Transit Surveys and Their Implications for Planet Formation and Evolution</i>	
Exoplanets III	July 2020
<i>The Typical Planets Discovered by Transit Surveys and Their Implications for Planet Formation and Evolution</i>	
First Stars VI	March 2020

<i>The Most Metal-poor Stars in the Large Magellanic Cloud</i>	
Brown Dwarf to Exoplanet Connection III	October 2019
<i>Evidence of an Upper Bound on the Masses of Planets and its Implications for Giant Planet and Brown Dwarf Formation</i>	
Chesapeake Bay Area Exoplanet Meeting	September 2019
<i>The Typical Terrestrial-mass Planet Discovered by Transit Surveys and Its Implications for Planet Formation and Evolution</i>	
Into the Starlight: The End of the Cosmic Dark Ages	March 2019
<i>An Ultra Metal-poor Star Near the Hydrogen-burning Limit</i>	
Stellar Archaeology as a Time Machine to the First Stars	December 2018
<i>An Ultra Metal-poor Star Near the Hydrogen-burning Limit</i>	
Exoplanets II	July 2018
<i>Evidence of an Upper Bound on the Masses of Planets and its Implications for Giant Planet Formation</i>	
Exoplanets Orbiting Hot Stars	June 2018
<i>The Giant Planet–Host Star Metallicity Correlation for Hot Stars</i>	
Stellar Abundances in Dwarf Galaxies	June 2018
<i>The Most Metal-poor Stars in the Large Magellanic Cloud</i>	
Chesapeake Bay Area Exoplanet Meeting	May 2018
<i>The Maximum Mass of a Planet</i>	
Chemical Evolution of the Universe	September 2017
<i>The Most Metal-poor Stars in the Large Magellanic Cloud</i>	
Kepler & K2 Science Conference IV	June 2017
<i>Joint Spectroscopic and Asteroseismic Analysis of Very Metal-poor Stars in the Kepler Field</i>	
4th Magellan Science Symposium	December 2016
<i>Magellan, Metal-poor Stars, and the $z > 15$ Universe</i>	
White Research Conference on Galactic Archaeology & Stellar Physics	November 2016
<i>Joint Spectroscopic and Asteroseismic Analysis of Very Metal-poor Stars in the Kepler Field</i>	
Exoplanets in the Era of Extremely Large Telescopes	September 2016
<i>Exoplanets in Open Clusters in the Era of Extremely Large Telescopes</i>	
ExSoCal2016: An Exoplanet Orbital Interaction	September 2016
<i>A Long-period Multiple-transiting Giant Planet System with Evidence of High Stellar Obliquity</i>	
Astrophysics with the SPHEREx All-sky Spectral Survey	February 2016
<i>Metal-poor Stars and Milky Way Formation with SPHEREx</i>	
Carnegie Science Origins Meeting	October 2015
<i>The Number of Solar System Analogs in the Galaxy</i>	
OHP 2015: Twenty Years of Giant Exoplanets	October 2015
<i>Architectural and Chemical Insights into the Origin of Hot Jupiters</i>	
ExSoCal2015: An Exoplanet Orbital Interaction	September 2015
<i>Bayes' Theorem Reveals that Hot Jupiters are not Lonely</i>	
XXIX IAU Focus Meeting 1: Dynamical Problems in Extrasolar Planet Science	August 2015
<i>Architectural Insights into the Origin of Hot Jupiters</i>	
First Stars, Galaxies, and Black Holes: Now and Then	June 2015
<i>The Most Ancient Stars in the Milky Way?</i>	
8th Annual MKI Postdoc Symposium	April 2015
<i>The Best and Brightest Metal-poor Stars</i>	
WISE at 5: Legacy and Prospects	February 2015
<i>The Best and Brightest Metal-Poor Stars</i>	
The Milky Way and its Stars: Stellar Astrophysics, Galactic Archaeology, and Stellar Populations	February 2015
<i>The Best and Brightest Metal-Poor Stars</i>	
225th American Astronomical Science Meeting	January 2015
<i>The Best and Brightest Metal-Poor Stars</i>	
Wide-field InfraRed Surveys: Science and Techniques	November 2014
<i>An Infrared Search for the First Stars</i>	
Characterizing Planetary Systems Across the HR Diagram	July 2014
<i>Observational Insight into the Effect of Stellar Evolution on Exoplanet Systems</i>	
7th Annual MKI Postdoc Symposium	May 2014
<i>Planet Formation in Close-In Systems of Multiple Planets</i>	
223rd American Astronomical Science Meeting	January 2014
<i>The Fate of Hot Jupiters</i>	

The Second Kepler Science Conference <i>Planet Formation in Kepler Multiplanet Systems</i>	November 2013
6th Annual MKI Postdoc Symposium <i>The Fate of Hot Jupiters (and the Earth too)</i>	April 2013
Exoplanets in Multi-body Systems in the Kepler Era <i>Metallicity Trends in Kepler Planets</i>	February 2013
221st American Astronomical Science Meeting <i>Hosts of Multiplanet Systems are Preferentially Metal-Rich</i>	January 2013
The First Kepler Science Conference <i>Kepler Exoplanet Candidate Host Stars are Preferentially Metal Rich</i>	December 2011
217th American Astronomical Science Meeting <i>Halo Substructure and Milky Way Formation</i>	January 2011
Cosmology in Northern California '10 <i>Halo Substructure and Milky Way Formation</i>	October 2010
SEGUE-2 Science Meeting <i>The Chemistry, Kinematics, and Origin of Elements of Cold Halo Substructure (ECHOS)</i>	February 2010
The Milky Way and the Local Group - Now and in the Gaia Era <i>The Stellar Accretion History of the Milky Way Through Cold Halo Substructure</i>	September 2009
Cosmology in Northern California '09 <i>Insight Into the Formation of the Milky Way Through Cold Inner Halo Substructure</i>	May 2009
Santa Cruz Galaxy Formation Workshop 2008 <i>The Stellar Accretion History of the Milky Way Through Halo Substructure</i>	August 2008
Sloan Digital Sky Survey Science: From Asteroids To Cosmology <i>The Stellar Accretion History of the Milky Way Through Halo Substructure</i>	August 2008

Teaching

AS.171.611 Stellar Structure and Evolution , 11 students, 3 credit hours	Spring 2025
AS.171.107 General Physics for Physical Sciences Majors , 65 students, 4 credit hours	Fall 2024
AS.171.644 Exoplanets and Planet Formation , 4 students, 3 credit hours	Spring 2024
AS.171.611 Stellar Structure and Evolution , 10 students, 3 credit hours	Fall 2023
AS.171.611 Stellar Structure and Evolution , 23 students, 3 credit hours	Spring 2023
AS.171.502 Undergraduate Independent Research , 1 student, 3 credit hours	Spring 2023
AS.171.501 Undergraduate Independent Research , 3 students, 2-3 credit hours	Fall 2022
AS.171.644 Exoplanets and Planet Formation , 4 students, 3 credit hours	Spring 2022
AS.171.502 Undergraduate Independent Research , 1 student, 3 credit hours	Spring 2022
AS.171.597 Independent Research , 1 student, 3 credit hours	Summer 2021
AS.171.610 Numerical Methods for Physicists , 8 students, 4 credit hours	Fall 2020
AS.171.644 Exoplanets and Planet Formation , 6 students, 3 credit hours	Spring 2020
AS.171.301 Electromagnetic Theory II , 23 students, 4 credit hours	Fall 2019
AS.171.610 Numerical Methods for Physicists , 1 student, 4 credit hours	Spring 2019
AS.171.416 Numerical Methods for Physicists , 12 students, 4 credit hours	Spring 2019
AS.171.301 Electromagnetic Theory II , 24 students, 4 credit hours	Fall 2018
AS.171.610 Numerical Methods-Physics , 11 students, 4 credit hours	Spring 2018
AS.171.502 Undergraduate Independent Research , 1 student, 3 credit hours	Spring 2018
AS.171.416 Numerical Methods for Physicists , 1 student, 4 credit hours	Spring 2018
AS.171.301 Electromagnetic Theory II , 28 students, 4 credit hours	Fall 2017
AS.171.597 Independent Research , 1 student, 3 credit hours	Summer 2017
AS.171.644 Exoplanets and Planet Formation , 12 students, 3 credit hours	Spring 2017

Undergraduate Mentorship

Primary research advisees (awards, if any; current professional status)

Le “Chris” Wang (Summer PURA, Dean’s ASPIRE Grant, and IDIES Summer Student Fellowship; JHU undergraduate)	January 2022 – Present
Keyi Ding (IDIES Summer Student Fellowship; astronomy PhD student at UMD)	May 2021 – Present
Alejandro Ross (Woodrow Wilson Fellowship; Instructor at Tutor Me SOS)	December 2019 – Present
Zack Reeves (Summer PURA; physics PhD student at UMBC)	January 2021 – August 2023
Courtney Carreira (A&A PhD student at UC Santa Cruz)	May 2021 – May 2022

Michael Kruppa (CS masters student)	June 2021 – August 2021
Ying Qin (Paralegal at Wiley Rein)	May 2021 – August 2021
Turner Woody (Goldwater Scholarship and Kerr Award; A&A PhD student at Harvard)	June 2018 – June 2021
Vedant Chandra (IDIES Summer Student Fellowship; A&A PhD student at Harvard)	June 2020 – March 2021
Noah Halpern (Data Scientist at Car IQ)	January 2019 – May 2019
Karl Osterbauer (Summer PURA; Software Engineer at DRW)	January 2018 – May 2019
Theo Cooper (Technical Support Engineer at CData Software)	June 2017 – August 2017
Caroline Chin (UROP; economics PhD student at MIT)	June 2013 – August 2013

Academic advisees (current professional status)

Shay Savio (JHU undergraduate)	April 2024 – April 2025
Samantha Brecher (JHU undergraduate)	November 2024 – March 2025
Gavin Wang (JHU undergraduate)	March 2023 – Present
Shrutina Shrestha (Medical Office Specialist at Mercy Medical Center)	May 2021 – May 2024
Eric Ding	December 2020 – May 2023
Evan Petrosky (physics PhD student at Michigan)	August 2018 – May 2021
Kyle Velez (Photographer at GTP Corp)	August 2020 – April 2021
Andrew King (Software Developer at Old Mission Capital)	August 2017 – May 2020

Graduate Mentorship

Advisees (type of mentorship; awards, if any; current professional status)

Qier An (JHU academic thesis advisor)	July 2024 – Present
Patrick McCreery (JHU thesis advisor)	September 2024 – Present
Stephen Schmidt III (JHU thesis advisor; NSF GRF)	September 2024 – Present
Patrick McCreery (JHU research mentor)	January 2024 – August 2024
Stephen Schmidt III (JHU research mentor; NSF GRF)	September 2022 – August 2024
Xinyu “Cicero” Lu (JHU academic thesis advisor; Science Fellow at Gemini North)	September 2019 – August 2023
Jacob Hamer (JHU thesis advisor; Assistant Curator of Astro Ed at NJSM)	September 2019 – August 2022
Jonathan Aguilar (JHU academic thesis advisor; MIRI Staff Scientist at STScI)	January 2019 – January 2020
Jacob Hamer (JHU research mentor)	September 2017 – August 2019
Xinyu “Cicero” Lu (JHU research mentor)	September 2017 – August 2019
Bin Ren (JHU academic thesis advisor; MSCA European Fellow at OCA)	January 2017 – May 2019

Academic advisees

Gautham Pallathadka (JHU thesis advisory committee)	March 2024 – Present
Nicole Crumpler (JHU thesis advisory committee)	February 2024 – Present
Qier An (GBO committee)	April 2025
Yanfei Wang (GBO committee)	March 2025
Harry Eldridge (GBO committee chair)	January 2025
William Watkins (GBO committee)	December 2024
David Dolgitzer (GBO committee)	November 2024
Patrick McCreery (GBO committee)	November 2024
Vladimir Grigorev (GBO committee)	September 2024
Wyatt Bunstine (GBO committee)	September 2024
Stephan Schmidt III (GBO committee)	May 2024
Xiaofan Wu (GBO committee)	April 2024
Zafar Rustamkulov (GBO committee)	March 2024
Nicole Crumpler (GBO committee)	November 2023
Elle Hanson (GBO committee)	November 2023
Xinyu “Cicero” Lu (JHU thesis defense committee chair)	June 2023
Nicholas Speeney (GBO committee)	March 2023
Jesse Liebman (GBO committee)	November 2022
Mayuri Sadhasivan (GBO committee)	November 2022
Jacob Hamer (JHU thesis defense committee chair)	July 2022
Yifan “Ada” Chen (JHU thesis defense committee)	June 2022
Brian Welch (JHU thesis advisory committee)	March 2020 – April 2022
Brian Healy (JHU thesis defense committee)	March 2022

Brian Healy (JHU thesis advisory committee)	March 2020 – March 2022
Erini Lambrides (JHU thesis advisory committee)	May 2018 – July 2021
Zackary White (GBO committee)	December 2020
Vincent Morano (GBO committee)	October 2020
Sarah Moran (GBO committee)	April 2020
Kristin Sotzen (GBO committee)	March 2020
Carolina Núñez (GBO committee)	December 2019
Brian Healy (GBO committee)	November 2019
Jacob Hamer (GBO committee)	October 2019
Caroline Huang (JHU thesis defense committee)	September 2019
Caroline Huang (JHU thesis advisory committee)	May 2017 – September 2019
Kirill Tchernyshyov (JHU thesis defense committee)	July 2019
Jonathan Aguilar (JHU thesis advisory committee)	May 2017 – January 2019
Michael Busch (JHU GBO committee)	November 2018
Hsiang-Chih Hwang (JHU GBO committee)	October 2018
Iskandar Atakhodjaev (JHU thesis defense committee)	August 2018
Chi Yan (JHU GBO committee)	February 2018
Lei “Raymond” Feng (JHU thesis defense committee)	January 2018
Devin Crichton (JHU thesis defense committee)	July 2017
Schuyler Wolff (JHU thesis defense committee)	July 2017
Can “Candice” You (JHU thesis defense committee)	June 2017
Bin Ren (JHU GBO committee)	March 2017

Postdoctoral Fellow/Research Scientist Mentorship

Sam Grunblatt (currently Assistant Professor at the University of Alabama)	September 2022 – August 2024
David Nataf (currently Assistant Professor at the University of Iowa)	September 2021 – August 2022
Henrique Reggiani (currently tenure-track Assistant Astronomer at NSF's NOIRLab)	September 2019 – August 2021

Service Activities

Member , JHU Physics & Astronomy Department Teaching Assignments Committee	2023 – Present
Member , AAS Beyond Academic Careers Advisory Committee (BACAC)	2023 – Present
JHU Member Representative , Association of Universities for Research in Astronomy (AURA)	2022 – Present
Co-chair JHU Physics & Astronomy Department Rowland Fellowship Committee	2022 – Present
Co-chair , SDSS-V Exoplanets Working Group	2021 – Present
Chair , JHU Telescope Time Allocation Committee	2019 – Present
Non-academic career advisor , JHU Physics & Astronomy Department	2018 – Present
Member , Chesapeake Bay Area Exoplanet Meeting Scientific Organizing Committee	2017 – Present
Member , JHU Physics & Astronomy Department Joint JHU/STScI Colloquium Committee	2017 – Present
Referee , AAS Journals, A&A, MNRAS, NASA, NSF, and Science	2011 – Present
Scientific organizing committee , TESS/Kepler Asteroseismic Science Consortium Workshop	2023
External reviewer , HST Cycle 30	2022
Member , JHU Physics & Astronomy Department Computer Committee	2017 – 2021
Member , JHU Physics & Astronomy Department Recruitment Committee	2017 – 2019
Contributor , JHU Physics & Astronomy Department Physics Fair	2017 – 2019
Member , Space Telescope Science Institute Exoplanet Search Committee	2018 – 2019
Member , JHU Physics & Astronomy Department Davis Fellowship Committee	2018 – 2019
Member , National Optical Astronomy Observatory Time Allocation Committee	2016 – 2018
Speaker , JHU Center for Astrophysics Research Experience (CARE) Program Lecture Series	2017
Contributor , JHU Physics & Astronomy Department Homecoming Reception	2017
Speaker , JHU Society of Physics Students Lecture Series	2017
Contributor , Pasadena Astronomy Week Astronomy Festival	2016
Contributor , Carnegie Open House	2016
Speaker , Carnegie Observatories Lecture Series	2016
Co-organizer , MIT MKI IAP Activities	2014
Co-organizer , MIT MKI Postdoc Symposium	2013
Speaker , MIT MKI IAP Lecture Series	2013
Member , UC Santa Cruz Astronomy and Astrophysics Department Admissions Committee	2011
Co-organizer , UC Santa Cruz Astronomy and Astrophysics Department FLASH	2010 – 2011

Science speaker , Lick Observatory Summer Visitor's Program	2008 – 2011
Organizer , UC Santa Cruz Astronomy and Astrophysics Department Summer FLASH	2008 – 2010
Graduate representative , UC Santa Cruz Academic Senate Committee on Planning and Budget	2008 – 2010
Chair , UC Santa Cruz Graduate Student Health Insurance Committee,	2008 – 2009
Outreach coordinator , Kavli Institute for Particle Astrophysics and Cosmology	2004 – 2005

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Advisee authors are underlined.

16. **Schlaufman, K. C.** & Halpern, N. D. 2021, "The Occurrence-weighted Median Planets Discovered by Transit Surveys Orbiting Solar-type Stars and Their Implications for Planet Formation and Evolution", *Astrophysical Journal*, **921**, 24
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14. **Schlaufman, K. C.** 2018, "Evidence of an Upper Bound on the Masses of Planets and Its Implications for Giant Planet Formation", *Astrophysical Journal*, **853**, 37
13. **Schlaufman, K. C.** & Winn J. N. 2016, "The Occurrence of Additional Giant Planets Inside the Water-Ice Line in Systems with Hot Jupiters: Evidence Against High-Eccentricity Migration", *Astrophysical Journal*, **825**, 62
12. **Schlaufman, K. C.** 2015, "A Continuum of Planet Formation between 1 and 4 Earth Radii", *Astrophysical Journal Letters*, **799**, L26
11. **Schlaufman, K. C.** & Casey, A. R. 2014, "The Best and Brightest Metal-poor Stars", *Astrophysical Journal*, **797**, 13
10. **Schlaufman, K. C.** 2014, "Tests of in situ Formation Scenarios for Compact Multiplanet Systems", *Astrophysical Journal*, **790**, 91
9. **Schlaufman, K. C.** & Winn, J. N. 2013, "Evidence for the Tidal Destruction of Hot Jupiters by Subgiant Stars", *Astrophysical Journal*, **772**, 143
8. **Schlaufman, K. C.**, Rockosi, C. M., Lee, Y. S., et al. 2012, "Insight Into the Formation of the Milky Way through Cold Halo Substructure. III. Statistical Chemical Tagging in the Smooth Halo", *Astrophysical Journal*, **749**, 77
7. **Schlaufman, K. C.** & Laughlin, G. 2011, "Kepler Exoplanet Candidate Host Stars Are Preferentially Metal Rich", *Astrophysical Journal*, **738**, 177
6. **Schlaufman, K.C.**, Rockosi, C. M., Lee, Y. S., Beers, T. C., & Allende Prieto, C. 2011, "Insight into the Formation of the Milky Way through Cold Halo Substructure. II. The Elemental Abundances of ECHOS", *Astrophysical Journal*, **734**, 49
5. **Schlaufman, K. C.**, Lin, D. N. C., & Ida, S. 2010, "A Population of Very Hot Super-Earths in Multiple-planet Systems Should be Uncovered by Kepler", *Astrophysical Journal Letters*, **724**, L53
4. **Schlaufman, K. C.** & Laughlin, G. 2010, "A physically-motivated photometric calibration of M Dwarf metallicity", *Astronomy & Astrophysics*, **519**, A105
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1. **Schlaufman, K. C.**, Lin, D. N. C., & Ida, S. 2009, "The Signature of the Ice Line and Modest Type I Migration in the Observed Exoplanet Mass-Semimajor Axis Distribution", *Astrophysical Journal*, **691**, 1321

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20. Cheng, S., **Schlaufman, K. C.**, & Caiazzo, I. 2025, “A Candidate Giant Planet Companion to the Massive, Young White Dwarf GALEX J071816.4+373139 Informs the Occurrence of Giant Planets Orbiting B Stars”, *AAS Journals*, [submitted](#)
19. Rustamkulov, Z., **Schlaufman, K. C.**, Sing, D. K., et al. 2025, “The Transit Age: Precise Exoplanet System Ages in the Era of Gaia and JWST”, *AAS Journals*, [submitted](#)
18. Nataf, D. M., **Schlaufman, K. C.**, Reggiani, R., & Hahn, I. 2024, “Accurate, Precise, and Physically Self-consistent Ages and Metallicities for 400,000 Solar Neighborhood Subgiant Branch Stars”, *Astrophysical Journal*, [976, 87](#)
17. Schmidt, S. P., **Schlaufman, K. C.**, & Hamer, J. H. 2024, “Resonant and Ultra-short-period Planet Systems are at Opposite Ends of the Exoplanet Age Distribution”, *Astronomical Journal*, [168, 109](#)
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15. Schmidt, S. P., **Schlaufman, K. C.**, Ding, K., et al. 2023, “Verification of Gaia DR3 Single-lined Spectroscopic Binary Solutions With Three Transiting Low-mass Secondaries”, *Astronomical Journal*, [166, 225](#)
14. Reggiani, H., **Schlaufman, K. C.**, & Casey, A. R. 2023, “Iron-rich Metal-poor Stars and the Astrophysics of Thermonuclear Events Observationally Classified as Type Ia Supernovae. I. Establishing the Connection”, *Astronomical Journal*, [166, 128](#)
13. Reeves, Z., **Schlaufman, K. C.**, & Reggiani, H. 2023, “The Dependence of Iron-rich Metal-poor Star Occurrence on Galactic Environment Supports an Origin in Thermonuclear Supernova Nucleosynthesis”, *Astronomical Journal*, [166, 127](#)
12. Dai, F., **Schlaufman, K. C.**, Reggiani, H., et al. 2023, “A Mini-Neptune Orbiting the Metal-poor K Dwarf BD+29 2654”, *Astronomical Journal*, [166, 49](#)
11. Hamer, J. H. & **Schlaufman, K. C.** 2022, “Evidence for the Late Arrival of Hot Jupiters in Systems with High Host-star Obliquities”, *Astronomical Journal*, [164, 26](#)
10. Reggiani, H., **Schlaufman, K. C.**, Healy, B. F., Lothringer, J. D., & Sing, D. K. 2022, “Evidence that the Hot Jupiter WASP-77 A b Formed Beyond Its Parent Protoplanetary Disk’s H₂O Ice Line”, *Astronomical Journal*, [163, 159](#)
9. Reggiani, H., **Schlaufman, K. C.**, Casey, A. R., Simon, J. D., & Ji, A. P. 2021, “The Most Metal-poor Stars in the Magellanic Clouds are *r*-process Enhanced”, *Astronomical Journal*, [162, 229](#)
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6. Lu, C. X., **Schlaufman, K. C.**, & Cheng, S. 2020, “An Increase in Small Planet Occurrence with Metallicity for Late-type Dwarf Stars in the Kepler Field and Its Implications for Planet Formation”, *Astronomical Journal*, [160, 253](#)
5. Reggiani, H., **Schlaufman, K. C.**, Casey, A. R., & Ji, A. P. 2020, “The Most Metal-poor Stars in the Inner Bulge”, *Astronomical Journal*, [160, 173](#)
4. Hamer, J. H. & **Schlaufman, K. C.** 2020, “Ultra-short-period Planets are Stable Against Tidal Inspiral”, *Astronomical Journal*, [160, 138](#)
3. Hamer, J. H. & **Schlaufman, K. C.** 2019, “Hot Jupiters are Destroyed by Tides While Their Host Stars Are on the Main Sequence”, *Astronomical Journal*, [158, 190](#)
2. Casey, A. R. & **Schlaufman, K. C.** 2017, “The Universality of the Rapid Neutron-capture Process Revealed by a Possible Disrupted Dwarf Galaxy Star”, *Astrophysical Journal*, [850, 179](#)
1. Casey, A. R. & **Schlaufman, K. C.** 2015, “Chemistry of the Most Metal-poor Stars in the Bulge and the $z \geq 10$ Universe”, *Astrophysical Journal*, [809, 110](#)

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45. Plotnykov, M., Valencia, D., Ross, A., Reggiani, H., & **Schlaufman, K. C.** 2025 “Evidence of 1:1 Correlations between Rocky Super-Earths and Their Host Stars”, *AAS Journals*, submitted
44. Ross, A., Reggiani, H., **Schlaufman, K. C.**, Plotnykov, M., & Valencia, D. 2025 “Terrestrial Exoplanet Internal Structure Constraints Enabled by Comprehensive Host Star Characterization Reveal that Terrestrial Planets in Mean-motion Resonances are Water Rich”, *AAS Journals*, submitted
43. Wang, G., Balmer, W. O., Pueyo, L., et al. 2025, “A Revised Density Estimate for the Largest Known Exoplanet HAT-P-67 b”, *Astronomical Journal*, in press
42. Lothringer, J. D., Bennett, K. A., Sing, D. K., et al. 2025, “Refractory and Volatile Species in the UV-to-IR Transmission Spectrum of the Ultra-hot Jupiter WASP-178 b with HST and JWST”, *Astronomical Journal*, in press
41. Saunders, N., Grunblatt, S. K., Huber, D., et al. 2025, “TESS Giants Transiting Giants. VII. A Hot Saturn Orbiting an Oscillating Red Giant”, *Astronomical Journal*, 169, 75
40. Sing, D. K., Evans-Soma, T. M., Rustamkulov, Z., et al. 2024, “An Absolute Mass, Precise Age, and Hints of Planetary Winds for WASP-121 A and b from a JWST NIRSpec Phase Curve”, *Astronomical Journal*, 168, 231
39. Marcussen, M. L., Albrecht, S. H., Winn, J. N., et al. 2024, “The BANANA Project. VII. High Eccentricity Predicts Spin-Orbit Misalignment in Binaries”, *Astrophysical Journal*, 975, 149
38. Yana Galarza, J., Reggiani, H., Ferreira, T., et al. 2024, “Detailed Abundances of the Planet-hosting TOI-1173 A/B System: Possible Evidence of Planet Engulfment in a Very Wide Binary”, *Astrophysical Journal*, 974, 122
37. Grunblatt, S. K., Saunders, N., Huber, D., et al. 2024, “TESS Giants Transiting Giants. IV. A Low-density Hot Neptune Orbiting a Red Giant Star”, *Astronomical Journal*, 168, 1
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35. Reggiani, H., Yana Galarza, J., **Schlaufman, K. C.**, et al. 2024, “Insight into the Formation of β Pic b through the Composition of Its Parent Protoplanetary Disk as Revealed by the β Pic Moving Group Member HD 181327”, *Astronomical Journal*, 167, 45
34. Almeida, A., Anderson, S. F., Argudo-Fernández, M., et al. 2023, “The Eighteenth Data Release of the Sloan Digital Sky Surveys: Targeting and First Spectra from SDSS-V”, *Astrophysical Journal Supplement Series*, 267, 44
33. Healy, B. F., McCullough, P. R., **Schlaufman, K. C.**, & Kovacs, G. 2023, “A Study of Stellar Spins in 15 Open Clusters”, *Astrophysical Journal*, 944, 39
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31. Shank, D., Beers, T. C., Placco, V. M., et al. 2022, “Dynamically Tagged Groups of Metal-Poor Stars from the Best & Brightest Survey”, *Astrophysical Journal*, 926, 26
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29. Santana, F. A., Beaton, R. L., Covey, K. R., et al. 2021, “Final Targeting Strategy for the SDSS-IV APOGEE-2S Survey”, *Astronomical Journal*, 162, 303
28. Yana Galarza, J., López-Valdivia, R., Lorenzo-Oliveira, D., et al. 2021, “Searching for new solar twins: The Inti survey for the Northern Sky”, *Monthly Notices of the Royal Astronomical Society*, 504, 1873
27. Lothringer, J. D., Rustamkulov, Z., Sing, D. K., et al. 2021, “A New Window into Planet Formation and Migration: Refractory-to-Volatile Elemental Ratios in Ultra-hot Jupiters”, *Astrophysical Journal*, 914, 12
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25. Hwang, H.-C., Ting, Y.-S., **Schlaufman, K. C.**, Zakamska, N. L., & Wyse, R. F. G. 2021, “The non-monotonic, strong metallicity dependence of the wide-binary fraction”, *Monthly Notices of the Royal Astronomical Society*, 501, 4329
24. Hwang, H.-C., Hamer, J. H., Zakamska, N. L., & **Schlaufman, K. C.** 2020, “Very wide companion fraction from Gaia DR2: A weak or no enhancement for hot Jupiter hosts, and a strong enhancement for contact binaries”, *Monthly Notices of the Royal Astronomical Society*, 497, 2250
23. Dai, F., Winn, J. N., **Schlaufman, K.**, et al. 2020, “CKS IX: Revisiting the Minimum-Mass Extrasolar Nebula with Precise Stellar Parameters”, *Astronomical Journal*, 159, 247
22. Norfolk, B. J., Casey, A. R., Karakas, A. I., et al. 2019, “Discovery of s-process enhanced stars in the LAMOST survey”, *Monthly Notices of the Royal Astronomical Society*, 490, 2219
21. Casey, A. R., Ho, A. Y. Q., Ness, M., et al. 2019, “Tidal Interactions between Binary Stars Can Drive Lithium Production in Low-mass Red Giants”, *Astrophysical Journal*, 880, 125
20. Kemp, A. J., Casey, A. R., Miles, M. T., et al. 2018, “On the discovery of K-enhanced and possibly Mg-depleted stars throughout the Milky Way”, *Monthly Notices of the Royal Astronomical Society*, 480, 1384
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18. Winn, J. N., Petigura, E. A., Morton, T. D., et al. 2017, “Constraints on Obliquities of Kepler Planet-hosting Stars”, *Astronomical Journal*, 154, 270
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16. Casey, A. R., Keller, S. C., Alves-Brito, A., et al. 2014, “The Aquarius comoving group is not a disrupted classical globular cluster”, *Monthly Notices of the Royal Astronomical Society*, 443, 828
15. Abbott, B., Abbott, R., Adhikari, R., et al. 2006, “Joint LIGO and TAMA300 search for gravitational waves from inspiralling neutron star binaries”, *Physical Review D*, 73, 102002
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