

# Kevin Charles Schlaufman

JHU P&A, 3400 N Charles St, Baltimore, MD 21218 · (410) 516-3295 · [kschlaufman@jhu.edu](mailto:kschlaufman@jhu.edu) · [www.kevinschlaufman.com](http://www.kevinschlaufman.com)

## Professional Appointments

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

## Education

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

## Honors and Awards

<b>Early Science with the LSST Scialog Fellowship</b> , 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
<b>Faculty Early Career Development Program (CAREER) Award</b> , 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
<b>Tuve Fellowship</b> , 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
<b>Infinite Kilometer Award</b> , MIT School of Science <i>Recognized for routinely working beyond my assigned responsibilities and for exceptional contributions to the community</i>	2013
<b>Chancellor's Dissertation-Year Fellowship</b> , 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
<b>Graduate Research Fellowship</b> , 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
<b>Whitford Prize</b> , UC Santa Cruz Astronomy and Astrophysics Department <i>Recognized as outstanding overall student in the first two years of the PhD program</i>	2008
<b>Marshal Award</b> , Penn State Astronomy and Astrophysics Department <i>Recognized as the top undergraduate major in my graduating class</i>	2004
<b>Evan Johnson Award</b> , Penn State Mathematics Department <i>Recognized as one of the top students in the mathematics major</i>	2003 & 2004
<b>Kermit C. Anderson Scholarship</b> , Penn State Mathematics Department <i>Recognized as one of the top students in the mathematics major</i>	2003
<b>Evan Pugh Scholar Award (Senior)</b> , Penn State <i>Recognized as top 0.5% percent of graduating class</i>	2003
<b>Elected to ΦBK</b> , Penn State	2003

## Principal Investigator Grants

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

*Atmospheric Elemental Abundance Inferences*

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

## Co-principal Investigator Grants

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

## Co-investigator Grants

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

## Invited Colloquia

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

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

## Seminars

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

<i>Halo Substructure and Milky Way Formation</i> <b>Penn State</b> , Department of Astronomy and Astrophysics Lunch Talk	September 2010
<i>Halo Substructure and Milky Way Formation</i> <b>Stanford University</b> , KIPAC Cosmology Seminar	April 2010
<i>Milky Way Structure and Formation as Revealed By Cold Halo Substructure</i> <b>UC Santa Cruz</b> , Summer Friday Lunch Astrophysics Seminar Hour	July 2009
<i>Super-Earth Formation as Revealed by Kepler</i> <b>UC Santa Cruz</b> , 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> <b>UC Santa Cruz</b> , Friday Lunch Astrophysics Seminar Hour	October 2007
<i>The Stellar Accretion History of the Milky Way Through Halo Substructure</i>	

## Invited Conference Talks

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

## Contributed Conference Talks

<b>SEEC Symposium: Pathways to Characterizing Non-Transiting Planets</b> <i>The Occurrence of Giant Planets Orbiting B Stars</i>	April 2024
<b>Supernova Explosions Conference</b> <i>Iron-rich Metal-poor Stars as Probes of Type Ia Supernovae Explosion Mechanism(s)</i>	August 2023
<b>Planetary Systems and the Origins of Life in the Era of JWST</b> <i>The Importance of High-precision Stellar Fundamental Parameter and Elemental Abundance Inferences for JWST Studies of Exoplanet Atmospheres</i>	May 2023
<b>The Star-Planet Connection</b> <i>Unbiased Model-independent Relative Ages for Exoplanet Host Stars from Galactic Kinematics</i>	October 2021
<b>Towards the Comprehensive Characterization of Exoplanets</b> <i>Exoplanet Host Star Ages from Galactic Kinematics Reveal the Unexpectedly Divergent Fates of HJ and USP Planets</i>	April 2021
<b>PLATO ESP 2020 - Planetary interiors and system architectures</b> <i>The Impact of PLATO-based Planet Occurrence and Mass-radius Analyses on the Terrestrial-mass Planet Formation Timescale</i>	December 2020
<b>Exoplanet Demographics</b> <i>The Typical Planets Discovered by Transit Surveys and Their Implications for Planet Formation and Evolution</i>	November 2020
<b>Exoplanets III</b> <i>The Typical Planets Discovered by Transit Surveys and Their Implications for Planet Formation and Evolution</i>	July 2020
<b>First Stars VI</b> <i>The Most Metal-poor Stars in the Large Magellanic Cloud</i>	March 2020
<b>Brown Dwarf to Exoplanet Connection III</b>	October 2019

<i>Evidence of an Upper Bound on the Masses of Planets and its Implications for Giant Planet and Brown Dwarf Formation</i>	
<b>Chesapeake Bay Area Exoplanet Meeting</b>	September 2019
<i>The Typical Terrestrial-mass Planet Discovered by Transit Surveys and Its Implications for Planet Formation and Evolution</i>	
<b>Into the Starlight: The End of the Cosmic Dark Ages</b>	March 2019
<i>An Ultra Metal-poor Star Near the Hydrogen-burning Limit</i>	
<b>Stellar Archaeology as a Time Machine to the First Stars</b>	December 2018
<i>An Ultra Metal-poor Star Near the Hydrogen-burning Limit</i>	
<b>Exoplanets II</b>	July 2018
<i>Evidence of an Upper Bound on the Masses of Planets and its Implications for Giant Planet Formation</i>	
<b>Exoplanets Orbiting Hot Stars</b>	June 2018
<i>The Giant Planet–Host Star Metallicity Correlation for Hot Stars</i>	
<b>Stellar Abundances in Dwarf Galaxies</b>	June 2018
<i>The Most Metal-poor Stars in the Large Magellanic Cloud</i>	
<b>Chesapeake Bay Area Exoplanet Meeting</b>	May 2018
<i>The Maximum Mass of a Planet</i>	
<b>Chemical Evolution of the Universe</b>	September 2017
<i>The Most Metal-poor Stars in the Large Magellanic Cloud</i>	
<b>Kepler &amp; K2 Science Conference IV</b>	June 2017
<i>Joint Spectroscopic and Asteroseismic Analysis of Very Metal-poor Stars in the Kepler Field</i>	
<b>4th Magellan Science Symposium</b>	December 2016
<i>Magellan, Metal-poor Stars, and the <math>z &gt; 15</math> Universe</i>	
<b>White Research Conference on Galactic Archaeology &amp; Stellar Physics</b>	November 2016
<i>Joint Spectroscopic and Asteroseismic Analysis of Very Metal-poor Stars in the Kepler Field</i>	
<b>Exoplanets in the Era of Extremely Large Telescopes</b>	September 2016
<i>Exoplanets in Open Clusters in the Era of Extremely Large Telescopes</i>	
<b>ExSoCal2016: An Exoplanet Orbital Interaction</b>	September 2016
<i>A Long-period Multiple-transiting Giant Planet System with Evidence of High Stellar Obliquity</i>	
<b>Astrophysics with the SPHEREx All-sky Spectral Survey</b>	February 2016
<i>Metal-poor Stars and Milky Way Formation with SPHEREx</i>	
<b>Carnegie Science Origins Meeting</b>	October 2015
<i>The Number of Solar System Analogs in the Galaxy</i>	
<b>OHP 2015: Twenty Years of Giant Exoplanets</b>	October 2015
<i>Architectural and Chemical Insights into the Origin of Hot Jupiters</i>	
<b>ExSoCal2015: An Exoplanet Orbital Interaction</b>	September 2015
<i>Bayes' Theorem Reveals that Hot Jupiters are not Lonely</i>	
<b>XXIX IAU Focus Meeting 1: Dynamical Problems in Extrasolar Planet Science</b>	August 2015
<i>Architectural Insights into the Origin of Hot Jupiters</i>	
<b>First Stars, Galaxies, and Black Holes: Now and Then</b>	June 2015
<i>The Most Ancient Stars in the Milky Way?</i>	
<b>8<sup>th</sup> Annual MKI Postdoc Symposium</b>	April 2015
<i>The Best and Brightest Metal-poor Stars</i>	
<b>WISE at 5: Legacy and Prospects</b>	February 2015
<i>The Best and Brightest Metal-Poor Stars</i>	
<b>The Milky Way and its Stars: Stellar Astrophysics, Galactic Archaeology, and Stellar Populations</b>	February 2015
<i>The Best and Brightest Metal-Poor Stars</i>	
<b>225th American Astronomical Science Meeting</b>	January 2015
<i>The Best and Brightest Metal-Poor Stars</i>	
<b>Wide-field InfraRed Surveys: Science and Techniques</b>	November 2014
<i>An Infrared Search for the First Stars</i>	
<b>Characterizing Planetary Systems Across the HR Diagram</b>	July 2014
<i>Observational Insight into the Effect of Stellar Evolution on Exoplanet Systems</i>	
<b>7<sup>th</sup> Annual MKI Postdoc Symposium</b>	May 2014
<i>Planet Formation in Close-In Systems of Multiple Planets</i>	
<b>223rd American Astronomical Science Meeting</b>	January 2014
<i>The Fate of Hot Jupiters</i>	
<b>The Second Kepler Science Conference</b>	November 2013
<i>Planet Formation in Kepler Multiplanet Systems</i>	

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

## Teaching

<b>AS.171.611 Stellar Structure and Evolution</b> , 11 students, 3 credit hours	Spring 2025
<b>AS.171.107 General Physics for Physical Sciences Majors</b> , 65 students, 4 credit hours	Fall 2024
<b>AS.171.644 Exoplanets and Planet Formation</b> , 4 students, 3 credit hours	Spring 2024
<b>AS.171.611 Stellar Structure and Evolution</b> , 10 students, 3 credit hours	Fall 2023
<b>AS.171.611 Stellar Structure and Evolution</b> , 23 students, 3 credit hours	Spring 2023
<b>AS.171.502 Undergraduate Independent Research</b> , 1 student, 3 credit hours	Spring 2023
<b>AS.171.501 Undergraduate Independent Research</b> , 3 students, 2-3 credit hours	Fall 2022
<b>AS.171.644 Exoplanets and Planet Formation</b> , 4 students, 3 credit hours	Spring 2022
<b>AS.171.502 Undergraduate Independent Research</b> , 1 student, 3 credit hours	Spring 2022
<b>AS.171.597 Independent Research</b> , 1 student, 3 credit hours	Summer 2021
<b>AS.171.610 Numerical Methods for Physicists</b> , 8 students, 4 credit hours	Fall 2020
<b>AS.171.644 Exoplanets and Planet Formation</b> , 6 students, 3 credit hours	Spring 2020
<b>AS.171.301 Electromagnetic Theory II</b> , 23 students, 4 credit hours	Fall 2019
<b>AS.171.610 Numerical Methods for Physicists</b> , 1 student, 4 credit hours	Spring 2019
<b>AS.171.416 Numerical Methods for Physicists</b> , 12 students, 4 credit hours	Spring 2019
<b>AS.171.301 Electromagnetic Theory II</b> , 24 students, 4 credit hours	Fall 2018
<b>AS.171.610 Numerical Methods-Physics</b> , 11 students, 4 credit hours	Spring 2018
<b>AS.171.502 Undergraduate Independent Research</b> , 1 student, 3 credit hours	Spring 2018
<b>AS.171.416 Numerical Methods for Physicists</b> , 1 student, 4 credit hours	Spring 2018
<b>AS.171.301 Electromagnetic Theory II</b> , 28 students, 4 credit hours	Fall 2017
<b>AS.171.597 Independent Research</b> , 1 student, 3 credit hours	Summer 2017
<b>AS.171.644 Exoplanets and Planet Formation</b> , 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
<a href="#">Keyi Ding</a> (IDIES Summer Student Fellowship; astronomy PhD student at <a href="#">UMD</a> )	May 2021 – Present
<a href="#">Alejandro Ross</a> (Woodrow Wilson Fellowship)	December 2019 – Present
<a href="#">Zack Reeves</a> (Summer PURA; physics PhD student at <a href="#">UMBC</a> )	January 2021 – August 2023
<a href="#">Courtney Carreira</a> (A&A PhD student at <a href="#">UC Santa Cruz</a> )	May 2021 – May 2022
<a href="#">Michael Kruppa</a> (JHU undergraduate)	June 2021 – August 2021
<a href="#">Ying Qin</a> (JHU undergraduate)	May 2021 – August 2021

<a href="#">Turner Woody</a> (Goldwater Scholarship and Kerr Award; A&A PhD student at <a href="#">Harvard</a> )	June 2018 – June 2021
<a href="#">Vedant Chandra</a> (IDIES Summer Student Fellowship; A&A PhD student at <a href="#">Harvard</a> )	June 2020 – March 2021
<a href="#">Noah Halpern</a> (Data Scientist at <a href="#">Car IQ</a> )	January 2019 – May 2019
<a href="#">Karl Osterbauer</a> (Summer PURA; Software Engineer at <a href="#">DRW</a> )	January 2018 – May 2019
<a href="#">Theo Cooper</a> (Technical Support Engineer at <a href="#">CData Software</a> )	June 2017 – August 2017
<a href="#">Caroline Chin</a> (UROP; economics PhD student at <a href="#">MIT</a> )	June 2013 – August 2013

#### Academic advisees (current professional status)

<a href="#">Samantha Brecher</a> (JHU undergraduate)	November 2024 – Present
<a href="#">Shay Savio</a> (JHU undergraduate)	April 2024 – Present
<a href="#">Gavin Wang</a> (JHU undergraduate)	March 2023 – Present
<a href="#">Shrutina Shrestha</a> (JHU undergraduate)	May 2021 – May 2024
<a href="#">Eric Ding</a>	December 2020 – May 2023
<a href="#">Evan Petrosky</a> (physics PhD student at <a href="#">Michigan</a> )	August 2018 – May 2021
<a href="#">Kyle Velez</a> (Photographer at <a href="#">GTP Corp</a> )	August 2020 – April 2021
<a href="#">Andrew King</a> (Software Developer at <a href="#">Old Mission</a> )	August 2017 – May 2020

## Graduate Mentorship

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

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

#### Academic advisees

<a href="#">Gautham Pallathadka</a> (JHU thesis advisory committee)	March 2024 – Present
<a href="#">Nicole Crumpler</a> (JHU thesis advisory committee)	February 2024 – Present
<a href="#">William Watkins</a> (GBO committee)	December 2024
<a href="#">David Dolgitzer</a> (GBO committee)	November 2024
<a href="#">Patrick McCreery</a> (GBO committee)	November 2024
<a href="#">Vladimir Grigorev</a> (GBO committee)	September 2024
<a href="#">Wyatt Bunstine</a> (GBO committee)	September 2024
<a href="#">Stephan Schmidt III</a> (GBO committee)	May 2024
<a href="#">Xiaofan Wu</a> (GBO committee)	April 2024
<a href="#">Zafar Rustamkulov</a> (GBO committee)	March 2024
<a href="#">Nicole Crumpler</a> (GBO committee)	November 2023
<a href="#">Elle Hanson</a> (GBO committee)	November 2023
<a href="#">Xinyu “Cicero” Lu</a> (JHU thesis defense committee chair)	June 2023
<a href="#">Nicholas Speeney</a> (GBO committee)	March 2023
<a href="#">Jesse Liebman</a> (GBO committee)	November 2022
<a href="#">Mayuri Sadhasivan</a> (GBO committee)	November 2022
<a href="#">Jacob Hamer</a> (JHU thesis defense committee chair)	July 2022
<a href="#">Yifan “Ada” Chen</a> (JHU thesis defense committee)	June 2022
<a href="#">Brian Welch</a> (JHU thesis advisory committee)	March 2020 – April 2022
<a href="#">Brian Healy</a> (JHU thesis defense committee)	March 2022
<a href="#">Brian Healy</a> (JHU thesis advisory committee)	March 2020 – March 2022
<a href="#">Erini Lambrides</a> (JHU thesis advisory committee)	May 2018 – July 2021
<a href="#">Zackary White</a> (GBO committee)	December 2020
<a href="#">Vincent Morano</a> (GBO committee)	October 2020
<a href="#">Sarah Moran</a> (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

<a href="#">Sam Grunblatt</a> (currently Assistant Professor at the <a href="#">University of Alabama</a> )	September 2022 – August 2024
<a href="#">David Nataf</a> (currently Assistant Professor at the <a href="#">University of Iowa</a> )	September 2021 – August 2022
<a href="#">Henrique Reggiani</a> (currently tenure-track Assistant Astronomer at <a href="#">NSF’s NOIRLab</a> )	September 2019 – August 2021

## Service Activities

<b>Member</b> , JHU Physics & Astronomy Department Teaching Assignments Committee	2023 – Present
<b>Member</b> , AAS Beyond Academic Careers Advisory Committee (BACAC)	2023 – Present
<b>JHU Member Representative</b> , Association of Universities for Research in Astronomy (AURA)	2022 – Present
<b>Co-chair</b> , JHU Physics & Astronomy Department Rowland Fellowship Committee	2022 – Present
<b>Co-chair</b> , SDSS-V Exoplanets Working Group	2021 – Present
<b>Chair</b> , JHU Telescope Time Allocation Committee	2019 – Present
<b>Non-academic career advisor</b> , JHU Physics & Astronomy Department	2018 – Present
<b>Member</b> , Chesapeake Bay Area Exoplanet Meeting Scientific Organizing Committee	2017 – Present
<b>Member</b> , JHU Physics & Astronomy Department Joint JHU/STScI Colloquium Committee	2017 – Present
<b>Referee</b> , AAS Journals, A&A, MNRAS, NASA, NSF, and Science	2011 – Present
<b>Scientific organizing committee</b> , TESS/Kepler Asteroseismic Science Consortium Workshop	2023
<b>External reviewer</b> , HST Cycle 30	2022
<b>Member</b> , JHU Physics & Astronomy Department Computer Committee	2017 – 2021
<b>Member</b> , JHU Physics & Astronomy Department Recruitment Committee	2017 – 2019
<b>Contributor</b> , JHU Physics & Astronomy Department Physics Fair	2017 – 2019
<b>Member</b> , Space Telescope Science Institute Exoplanet Search Committee	2018 – 2019
<b>Member</b> , JHU Physics & Astronomy Department Davis Fellowship Committee	2018 – 2019
<b>Member</b> , National Optical Astronomy Observatory Time Allocation Committee	2016 – 2018
<b>Speaker</b> , JHU Center for Astrophysics Research Experience (CARE) Program Lecture Series	2017
<b>Contributor</b> , JHU Physics & Astronomy Department Homecoming Reception	2017
<b>Speaker</b> , JHU Society of Physics Students Lecture Series	2017
<b>Contributor</b> , Pasadena Astronomy Week Astronomy Festival	2016
<b>Contributor</b> , Carnegie Open House	2016
<b>Speaker</b> , Carnegie Observatories Lecture Series	2016
<b>Co-organizer</b> , MIT MKI IAP Activities	2014
<b>Co-organizer</b> , MIT MKI Postdoc Symposium	2013
<b>Speaker</b> , MIT MKI IAP Lecture Series	2013
<b>Member</b> , UC Santa Cruz Astronomy and Astrophysics Department Admissions Committee	2011
<b>Co-organizer</b> , UC Santa Cruz Astronomy and Astrophysics Department FLASH	2010 – 2011
<b>Science speaker</b> , Lick Observatory Summer Visitor’s Program	2008 – 2011
<b>Organizer</b> , UC Santa Cruz Astronomy and Astrophysics Department Summer FLASH	2008 – 2010
<b>Graduate representative</b> , UC Santa Cruz Academic Senate Committee on Planning and Budget	2008 – 2010
<b>Chair</b> , UC Santa Cruz Graduate Student Health Insurance Committee,	2008 – 2009
<b>Outreach coordinator</b> , Kavli Institute for Particle Astrophysics and Cosmology	2004 – 2005



## Peer-reviewed First-author Publications

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
15. **Schlaufman, K. C.**, Thompson, I. B., & Casey, A. R. 2018, "An Ultra Metal-poor Star Near the Hydrogen-burning Limit", *Astrophysical Journal*, 867, 98
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
3. **Schlaufman, K. C.** 2010, "Evidence of Possible Spin-orbit Misalignment Along the Line of Sight in Transiting Exoplanet Systems", *Astrophysical Journal*, 719, 602
2. **Schlaufman, K. C.**, Rockosi, C. M., Allende Prieto, C., et al. 2009, "Insight into the Formation of the Milky Way Through Cold Halo Substructure. I. The ECHOS of Milky Way Formation", *Astrophysical Journal*, 703, 2177
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

## Peer-reviewed Second-author Publications

Advisee authors are underlined.

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
16. Hamer, J. H. & **Schlaufman, K. C.** 2024, "Kepler-discovered Multiple-planet Systems Near Period Ratios Suggestive of Mean-motion Resonances are Young", *Astronomical Journal*, 167, 55
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., et al. 2022, "Evidence that the Hot Jupiter WASP-77 A b Formed Beyond Its Parent Protoplanetary Disk's H<sub>2</sub>O 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
8. Woody, T. & **Schlaufman, K. C.** 2021, "The Age–Metallicity–Specific Orbital Energy Relation for the Milky Way's Globular Cluster System Confirms the Importance of Accretion for Its Formation", *Astronomical Journal*, 162, 42
7. Chandra, V. & **Schlaufman, K. C.** 2021, "Searching for Low-mass Population III Stars Disguised as White Dwarfs", *Astronomical Journal*, 161, 197
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

## Peer-reviewed Nth-author Publications

Advisee authors are underlined.

42. Ross, A., Reggiani, H., **Schlaufman, K. C.**, et al. 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
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*, in press

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
36. Ji, A. J., Curtis, S., Storm, N., et al. 2024, “Spectacular Nucleosynthesis from Early Massive Stars”, *Astrophysical Journal Letters*, 961, L41
35. Reggiani, H., Yana Galarza, J., **Schlaufman, K. C.**, et al. 2024, “Insight into the Formation of  $\beta$  Pic b through the Composition of Its Parent Protoplanetary Disk as Revealed by the  $\beta$  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
32. Reggiani, H., Ji, A. P., **Schlaufman, K. C.**, et al. 2022, “The Chemical Composition of Extreme-velocity Stars”, *Astronomical Journal*, 163, 252
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
30. Healy, B. F., McCullough, P. R., & **Schlaufman, K. C.** 2021, “Stellar Spins in the Pleiades, Praesepe and M35 Open Clusters”, *Astrophysical Journal*, 923, 23
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
26. Limberg, G., Santucci, R. M., Rossi, S., et al. 2021, “Targeting Bright Metal-poor Stars in the Disk and Halo Systems of the Galaxy”, *Astrophysical Journal*, 913, 11
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
19. Casey, A. R., Kennedy, G. M., Hartle, T. R., & **Schlaufman, K. C.** 2018, “Infrared colours and inferred masses of metal-poor giant stars in the Kepler field”, *Monthly Notices of the Royal Astronomical Society*, 478, 2812

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
17. Winn, J. N., Sanchis-Ojeda, R., Rogers, L., et al. 2017, "Absence of a Metallicity Effect for Ultra-short-period Planets", *Astronomical Journal*, 154, 60
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
14. Abbott, B., Abbott, R., Adhikari, R., et al. 2006, "Search for gravitational waves from binary black hole inspirals in LIGO data", 2006, *Physical Review D*, 73, 062001
13. Abbott, B., Abbott, R., Adhikari, R., et al. 2005, "Upper limits from the LIGO and TAMA detectors on the rate of gravitational-wave bursts", *Physical Review D*, 72, 102004
12. Abbott, B., Abbott, R., Adhikari, R., et al. 2005, "First all-sky upper limits from LIGO on the strength of periodic gravitational waves using the Hough transform", *Physical Review D*, 72, 102004
11. Abbott, B., Abbott, R., Adhikari, R., et al. 2005, "Search for gravitational waves from primordial black hole binary coalescences in the galactic halo", *Physical Review D*, 72, 082002
10. Abbott, B., Abbott, R., Adhikari, R., et al. 2005, "Search for gravitational waves from galactic and extra-galactic binary neutron stars", *Physical Review D*, 72, 082001
9. Abbott, B., Abbott, R., Adhikari, R., et al. 2005, "Upper limits on gravitational wave bursts in LIGO's second science run", *Physical Review D*, 72, 062001
8. Abbott, B., Abbott, R., Adhikari, R., et al. 2005, "Search for gravitational waves associated with the gamma ray burst GRB030329 using the LIGO detectors" *Physical Review D*, 72, 042001
7. Abbott, B., Abbott, R., Adhikari, R., et al. 2005, "Limits on Gravitational-Wave Emission from Selected Pulsars Using LIGO Data", *Physical Review Letters*, 94, 181103
6. Abbott, B., Abbott, R., Adhikari, R., et al. 2004, "Analysis of first LIGO science data for stochastic gravitational waves", *Physical Review D*, 69, 122004
5. Abbott, B., Abbott, R., Adhikari, R., et al. 2004, "Analysis of LIGO data for gravitational waves from binary neutron stars", *Physical Review D*, 69, 122001
4. Abbott, B., Abbott, R., Adhikari, R., et al. 2004, "First upper limits from LIGO on gravitational wave bursts", *Physical Review D*, 69, 102001
3. Abbott, B., Abbott, R., Adhikari, R., et al. 2004, "Setting upper limits on the strength of periodic gravitational waves from PSR J1939+2134 using the first science data from the GEO 600 and LIGO detectors", *Physical Review D*, 69, 082004
2. Allen, B., Woan, G., LIGO Scientific Collaboration, et al. 2004, "Upper limits on the strength of periodic gravitational waves from PSR J1939+2134", *Classical and Quantum Gravity*, 21, S671
1. Abbott, B., Abbott, R., Adhikari, R., et al. 2004, "Detector description and performance for the first coincidence observations between LIGO and GEO", *Nuclear Instruments and Methods in Physics Research A*, 517, 154