

Kevin Charles Schlaufman

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Professional Appointments

Assistant Professor , Rowland Department of Physics and Astronomy, Johns Hopkins University	2017 – Present
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

Sabbatical Visiting Researcher Award , Flatiron Institute Center for Computational Astrophysics	2021
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
Marshall 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 , Penn State <i>Recognized as top 0.5% percent of graduating class</i>	2003
Elected to ΦBK , Penn State	2003

Principal Investigator Grants

NSF Astronomy and Astrophysics Research Grant (\$367,859) <i>Exoplanet System Ages from Galactic Kinematics and their Impact on Planet Formation and Evolution</i>	2020 – 2023
Maryland Space Grant Consortium (\$20,000) <i>A Research Fellowship Program For High-achieving Underrepresented Minorities</i>	2020
NASA TESS Guest Investigator Program Cycle 2 (\$50,000) <i>Using the Metallicity Effect for Small Planets to Explore Planet Formation</i>	2020
Space@Hopkins Seed Grant (\$21,668) <i>New Insights into Planet Formation with NASA's Transiting Exoplanet Survey Satellite (TESS)</i>	2018 – 2019
Maryland Space Grant Consortium (\$14,000) <i>Undergraduate Research Assistantships in Galactic and Extragalactic Astronomy</i>	2018

Co-principal Investigator Grants

JHU PhD Professional Development Innovation Initiative Program (\$5,000) <i>Physics & Astronomy PhD Program Career Events (w/ Zakamska)</i>	2020
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Invited Colloquia

Johns Hopkins University , Henry A. Rowland Department of Physics and Astronomy Colloquium <i>The Formation, Structure, and Evolution of the Most Commonly Found Planets in the Galaxy</i>	September 2020
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Carnegie Institution for Science , Department of Terrestrial Magnetism Weekly Seminar <i>Planet Formation and Evolution in the Big Data Era</i>	May 2019
Columbia University , Department of Astronomy Colloquium <i>An Extraordinary Ancient Binary Star System</i>	February 2019
Johns Hopkins University , Faculty Forum <i>Planets Around Other Stars and the Search for Other Earths</i>	February 2019
Notre Dame University , Department of Physics Astrophysics Seminar <i>The Maximum Masses of Planets and the Minimum Metallicities of Long-lived Stars</i>	January 2019
Johns Hopkins University , IDIES Bi-Monthly Seminar <i>The Importance of Broad and Deep Domain Knowledge in Data Intensive Engineering and Science</i>	November 2018
Yale University , Department of Astronomy Colloquium <i>The Maximum Mass of a Planet</i>	April 2018
Space Telescope Science Institute , Joint JHU/STScI Colloquium <i>The Maximum Mass of a Planet</i>	February 2018
Johns Hopkins University , Henry A. Rowland Department of Physics and Astronomy Colloquium <i>What is—and is not—a Planet</i>	February 2017
Carnegie Institution for Science , Observatories Colloquium <i>The Origin of Hot Jupiters</i>	November 2016
The Ohio State University , Department of Astronomy Colloquium <i>The Origin and Fate of Hot Jupiters</i>	November 2015
California Institute of Technology , Division of Geological and Planetary Sciences Seminar <i>The Origin of Planets Found Close to Their Host Star</i>	November 2015
Johns Hopkins University , Henry A. Rowland Department of Physics and Astronomy Colloquium <i>Data-Intensive Astrophysics in the 21st Century: The Oldest Stars and the Origin of Hot Jupiters</i>	April 2015
Leiden University , Leiden Observatory Colloquium <i>Data-Intensive Astrophysics in the 21st Century: The Oldest Stars and the Origin of Hot Jupiters</i>	March 2015
UC Berkeley , Astronomy Department Colloquium <i>Data-Intensive Astrophysics in the 21st Century: The Oldest Stars and the Origin of Hot Jupiters</i>	March 2015
University of Toronto , Dunlap Institute for Astronomy and Astrophysics Colloquium <i>Data-Intensive Astrophysics in the 21st Century: The Oldest Stars and the Origin of Hot Jupiters</i>	February 2015
Princeton University , Department of Astrophysical Sciences Colloquium <i>Data-Intensive Astrophysics in the 21st Century: The Oldest Stars and the Origin of Hot Jupiters</i>	February 2015
Johns Hopkins University , Henry A. Rowland Department of Physics and Astronomy Colloquium <i>Data-Intensive Planet Formation</i>	March 2014
University of Virginia , Department of Astronomy Colloquium <i>Data-Intensive Planet Formation</i>	March 2014
MIT , Physics Faculty Lunch <i>A Planet Puzzle</i>	September 2013

Seminars

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

Carnegie Exoplanetary Worlds Workshop <i>The Future of Exoplanet Demographics with Carnegie Facilities</i>	October 2019
NASA Goddard–JHU Interaction Day <i>Planet Formation in the Next Decade</i>	October 2018
NASA Goddard–JHU Interaction Day <i>Exoplanet Research at JHU</i>	October 2017
Chesapeake Bay Area Exoplanet Meeting <i>Exoplanet Research at JHU</i>	October 2017
IAUS 317: The General Assembly of Galaxy Halos: Structure, Origin and Evolution <i>The Most Ancient Stars in the Milky Way's Halo</i>	August 2015
Planetary Population Synthesis: The Predictive Power of Planet Formation Theory <i>Kepler, Exoplanet Population Synthesis, and Tidal Evolution</i>	December 2010

Contributed Conference Talks

PLATO ESP 2020 - Planetary interiors and system architectures <i>The Impact of PLATO-based Planet Occurrence and Mass–radius Analyses on the Terrestrial-mass Planet Formation Timescale</i>	December 2020
Exoplanet Demographics <i>The Typical Planets Discovered by Transit Surveys and Their Implications for Planet Formation and Evolution</i>	November 2020
Exoplanets III <i>The Typical Planets Discovered by Transit Surveys and Their Implications for Planet Formation and Evolution</i>	July 2020
First Stars VI <i>The Most Metal-poor Stars in the Large Magellanic Cloud</i>	March 2020
Brown Dwarf to Exoplanet Connection III <i>Evidence of an Upper Bound on the Masses of Planets and its Implications for Giant Planet and Brown Dwarf Formation</i>	October 2019
Chesapeake Bay Area Exoplanet Meeting <i>The Typical Terrestrial-mass Planet Discovered by Transit Surveys and Its Implications for Planet Formation and Evolution</i>	September 2019
Into the Starlight: The End of the Cosmic Dark Ages <i>An Ultra Metal-poor Star Near the Hydrogen-burning Limit</i>	March 2019
Stellar Archaeology as a Time Machine to the First Stars <i>An Ultra Metal-poor Star Near the Hydrogen-burning Limit</i>	December 2018
Exoplanets II <i>Evidence of an Upper Bound on the Masses of Planets and its Implications for Giant Planet Formation</i>	July 2018
Exoplanets Orbiting Hot Stars <i>The Giant Planet–Host Star Metallicity Correlation for Hot Stars</i>	June 2018
Stellar Abundances in Dwarf Galaxies <i>The Most Metal-poor Stars in the Large Magellanic Cloud</i>	June 2018
Chesapeake Bay Area Exoplanet Meeting <i>The Maximum Mass of a Planet</i>	May 2018
Chemical Evolution of the Universe <i>The Most Metal-poor Stars in the Large Magellanic Cloud</i>	September 2017
Kepler & K2 Science Conference IV <i>Joint Spectroscopic and Asteroseismic Analysis of Very Metal-poor Stars in the Kepler Field</i>	June 2017
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	November 2013
<i>Planet Formation in Kepler Multiplanet Systems</i>	
6th Annual MKI Postdoc Symposium	April 2013
<i>The Fate of Hot Jupiters (and the Earth too)</i>	
Exoplanets in Multi-body Systems in the Kepler Era	February 2013
<i>Metallicity Trends in Kepler Planets</i>	
221st American Astronomical Science Meeting	January 2013
<i>Hosts of Multiplanet Systems are Preferentially Metal-Rich</i>	
The First Kepler Science Conference	December 2011
<i>Kepler Exoplanet Candidate Host Stars are Preferentially Metal Rich</i>	
217th American Astronomical Science Meeting	January 2011
<i>Halo Substructure and Milky Way Formation</i>	
Cosmology in Northern California '10	October 2010
<i>Halo Substructure and Milky Way Formation</i>	
SEGUE-2 Science Meeting	February 2010
<i>The Chemistry, Kinematics, and Origin of Elements of Cold Halo Substructure (ECHOS)</i>	
The Milky Way and the Local Group - Now and in the Gaia Era	September 2009
<i>The Stellar Accretion History of the Milky Way Through Cold Halo Substructure</i>	
Cosmology in Northern California '09	May 2009
<i>Insight Into the Formation of the Milky Way Through Cold Inner Halo Substructure</i>	
Santa Cruz Galaxy Formation Workshop 2008	August 2008
<i>The Stellar Accretion History of the Milky Way Through Halo Substructure</i>	
Sloan Digital Sky Survey Science: From Asteroids To Cosmology	August 2008
<i>The Stellar Accretion History of the Milky Way Through Halo Substructure</i>	

Teaching

AS.171.610 Numerical Methods for Physicists, 11 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.171.416 Numerical Methods for Physicists, 12 students, 4 credit hours	Spring 2019
AS.171.610 Numerical Methods for Physicists, 1 student, 4 credit hours	Spring 2019
AS.171.301 Electromagnetic Theory II, 24 students, 4 credit hours	Fall 2018
AS.171.416 Numerical Methods for Physicists, 1 student, 4 credit hours	Spring 2018
AS.171.502 Undergraduate Independent Research, 1 student, 3 credit hours	Spring 2018
AS.171.610 Numerical Methods-Physics, 11 students, 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 mentees

Alejandro Ross (JHU Woodrow Wilson Fellow)	December 2020 – Present
Vedant Chandra (JHU IDIES Summer Student Fellow)	June 2020 – Present
Turner Woody (Goldwater Scholar; JHU independent research)	June 2018 – Present
Noah Halpern (JHU independent research; currently data scientist at Car IQ)	January 2019 – May 2019
Karl Osterbauer (JHU Summer PURA; currently software engineer at Bloomberg)	January 2018 – May 2019
Theo Cooper (JHU independent research; currently physics PhD student at NC State)	June 2017 – August 2017
Caroline Chin (MIT UROP; currently CS MS student at MIT)	June 2013 – August 2013

Academic advisees

Kyle Velez (JHU undergraduate advisee)	August 2020 – Present
Evan Petrosky (JHU undergraduate advisee)	August 2018 – Present
Andrew King (JHU undergraduate advisee; currently CS MS student at JHU)	August 2017 – May 2020

Graduate Mentorship

Advisees

Jacob Hamer (JHU thesis advisor)	September 2019 – Present
Xinyu “Cicero” Lu (JHU academic thesis advisor)	September 2019 – Present
Jonathan Aguilar (JHU academic thesis advisor; currently postdoc 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; currently postdoc at Caltech)	January 2017 – May 2019

Academic mentorship

Brian Welch (JHU thesis advisory committee)	March 2020 – Present
Brian Healy (JHU thesis advisory committee)	March 2020 – Present
Erini Lambrides (JHU thesis advisory committee)	May 2018 – Present
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 Scholar Mentorship

Henrique Reggiani

September 2019 – Present

Service Activities

Chair , JHU Telescope Time Allocation Committee	2019 – Present
Member , JHU Physics and Astronomy Department Davis Fellowship Committee	2018 – Present
Non-academic Career Advisor , JHU Physics and Astronomy Department	2018 – Present
Member , Chesapeake Bay Area Exoplanet Meeting Scientific Organizing Committee	2017 – Present
Contributor , JHU Physics and Astronomy Department Physics Fair	2017 – Present
Member , JHU Physics and Astronomy Department Computer Committee	2017 – Present
Member , JHU Physics and Astronomy Department Joint JHU/STScI Colloquium Committee	2017 – Present
Referee , Astrophysical Journal, A&A, MNRAS, NASA, NSF, and Science	2011 – Present
Member , JHU Physics and Astronomy Department Recruitment Committee	2017 – 2019
Member , Space Telescope Science Institute Exoplanet Search 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 and 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

Peer-reviewed First-author Publications

Advisee authors are underlined.

16. **Schlaufman, K. C.** & Halpern, N. D. 2020, "The Occurrence-weighted Median Planets Discovered by Transit Surveys and Their Implications for Planet Formation and Evolution", *AAS Journals*, [submitted](#)
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.

8. Woody, T. & **Schlaufman, K. C.** 2020, "The Age–Metallicity–Specific Orbital Energy Relation for the Milky Way’s Globular Cluster System Confirms the Importance of Accretion for Its Formation", *AAS Journals*, submitted
7. Chandra, V. & **Schlaufman, K. C.** 2020, "Searching for Low-mass Population III Stars Disguised as White Dwarfs", *AAS Journals*, submitted
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.

26. Aguilar, J., Pueyo, L., Nilsson, R., et al. 2020, "Discovery of a Low-mass Stellar Companion to 102 Aqr Using High-contrast Imaging", *Astronomical Journal*, submitted
25. Hwang, H.-C., Ting, Y.-S., Schlaufman, K. C., Zakamska, N. L., & Wyse, R. F. G. 2020, "The non-monotonic, strong metallicity dependence of the wide-binary fraction", *Monthly Notices of the Royal Astronomical Society*, submitted
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., Miles, M. T., 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
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