

PHILIP STEVEN MUIRHEAD, PHD

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Education

Doctor of Philosophy, Cornell University, Ithaca, NY, USA, Aug. 2011
Major Field: Astronomy, Minor Field: Applied Engineering in Physics
Dissertation: *Externally Dispersed Interferometry for Terrestrial Exoplanet Detection*
<https://ecommons.cornell.edu/handle/1813/29454>

Master of Science, Cornell University, Ithaca, NY, USA, Aug. 2008
Major Field: Astronomy, Minor Field: Applied Engineering in Physics

Bachelor of Science, University of Michigan, Ann Arbor, MI, USA, Apr. 2005
Concentrations: Astronomy & Astrophysics, General Physics
Programs: The LSA Honors Program, The Residential College

Primary Appointments

Associate Professor with Tenure, Department of Astronomy, Boston University, May 2021-present
Assistant Professor, Department of Astronomy, Boston University, Jul. 2014-May 2021
Hubble Fellow, Department of Astronomy, Boston University, prize fellowship awarded by NASA, Sep. 2013-Jun. 2014
Postdoctoral Scholar, Division of Physics, Math, and Astronomy, California Institute of Technology, Jul. 2011-Aug. 2013

Secondary Appointments

Special Member of the Graduate Faculty, University of Toledo, Toledo, OH, Dec. 2018 to May 2021
CfA Collaborator, Solar, Stellar and Planetary Sciences Division, Smithsonian Astrophysical Observatory, Cambridge, MA, Jun. 2018 to Jun. 2021
Natural Sciences Faculty, The Core Curriculum, Boston University, Sep. 2016-present
Visiting Scientist, Kavli Institute for Theoretical Physics, Santa Barbara, CA, Apr.-Jun. 2019
Affiliated Astronomer, The Maria Mitchell Association, Nantucket, MA, Summer 2018, Summer 2019
Anacapa Scholar, The Thacher School, Ojai, CA, Oct. 2015, Apr. 2019

Awards and Distinctions

SciLog Fellow, Research Corporation for the Advancement of Science, Tucson, AZ, May 2019
Templeton Award for Excellence in Undergraduate Advising and Mentoring, College of Arts and Sciences, Boston University, May 2018
Hubble Postdoctoral Fellowship, Space Telescope Science Institute, Baltimore, MD, Sep. 2013

Z. Carter Patten '25 Graduate Fellowship, Cornell University, Sep. 2010
New York Space Grant Fellowship, Cornell University, September 2010
Carnson W. and Edna B. Shelley Award for Graduate Research in Astronomy, Cornell University, May 2009
NASA Earth and Space Science Fellowship, NASA Headquarters, Washington, DC, Sep. 2007
James B. Angell Scholar, University of Michigan, May 2005
University Honors, University of Michigan, All Semesters (2001-2005)

Awarded External Grants as Principal Investigator (reverse chronological order by start date)

Sum of awarded external grants as PI since July, 2014: \$1,651,395

“Collaborative Research: A Fresh Look at M Dwarf Stars”, NSF Astronomy & Astrophysics Research Grants (AAG), Sep 2020 to Aug 2023, \$132,254

“Collaborative Research: Adding a Magnetic Dimension to M-dwarf Stars Observed by APOGEE”, NSF Astronomy & Astrophysics Research Grants (AAG), Sep 2020 to Aug 2023, \$81,207

“Python Pipeline for Exoplanet Transmission Spectra”, Massachusetts Space Grant Consortium, Jun 2020 to Aug 2020, \$5,500

“A Search for Transiting Exoplanets and Exomoons Orbiting L and T Dwarfs”, NASA Exoplanet Research Program (XRP), Jan 2020 to Dec 2022, \$473,342

“M dwarf Radius Inflation Across the Fully Convective Boundary”, NASA Award connected to time awarded on the W. M. Keck Observatory, Mar 2019 to Dec 2020, \$11,750

“M dwarf Ages: The Missing Link in the Age-Rotation-Activity Relation”, NASA Award connected to time awarded on the W. M. Keck Observatory, Mar 2019 to Dec 2020, \$15,150

“The Mass-Radius-Luminosity-Rotation Relation for M Dwarfs Determined from Tess Eclipsing Binaries”, NASA TESS Guest Observer Program (Cycle 1), Mar 2018 to Dec 2019, \$25,000

“M dwarf Ages: The Missing Link in the Age-Rotation-Activity Relation”, NASA Award connected to time awarded on the W. M. Keck Observatory, Feb 2018 to Jan 2020, \$11,750

“Accurate Alpha Abundances and Ages of M dwarfs”, NASA Award connected to time awarded on the W. M. Keck Observatory, Feb 2018 to Jan 2020, \$10,850

“Activity and Planets at the Bottom of the Main Sequence”, NASA K2 Guest Observer Program Cycle 5, Dec 2017 to Dec 2019, \$50,000

“Statistical Ages of M dwarfs from Abundances”, NSF Astronomy & Astrophysics Research Grants (AAG), Aug 2017 to Jul 2020, \$373,678

“Recovering the Transit of KIC 9413313b: A Potential Exomoon Host Lost to Transit Timing Variations”, NASA/NSF Award connected to time awarded on the WIYN Telescope, Mar 2017 to Jan 2019, \$7,202

“Activity and Planets at the Bottom of the Main Sequence”, NASA K2 Guest Observer Program Cycle 6, Mar 2017 to Sep 2018, \$38,681

“Graduate student support to work on MIT's Transiting Exoplanet Survey Satellite (TESS)”, Massachusetts Institute of Technology, Jan 2017 to Apr 2017, \$19,599

“A New Approach for Characterizing Exoplanets with Atmospheric Refraction”, Massachusetts Space Grant Consortium, Jun 2016 to Aug 2016, \$5,500

“Accurate Alpha Abundance of Low-mass Stars”, NASA Award connected to time awarded on the W. M. Keck Observatory, Apr 2016 to Dec 2017, \$12,500

“Mass-Radius-Luminosity-Rotation Relationships for M Dwarf Planet-Hosting Stars in Preparation for the TESS, Gaia and JWST Era”, NASA Exoplanet Research Program (XRP), Feb 2015 to Dec 2018, \$371,932

“Using Cassini Data on Saturn to Correctly Interpret Exoplanet Atmosphere Measurements”, Massachusetts Space Grant Consortium, Jun 2014 to Aug 2014, \$5,500

Awarded External Grants as Co-Principal Investigator of the Proposal and Principal Investigator of a Subaward

Sum of awarded external sub-awards since July, 2014: \$119,150

“Brief But Spectacular: New Windows into the Physics of Common Envelope Evolution”, NSF Astronomy & Astrophysics Research Grants (AAG), Jul 2020 to Jun 2023, PI: J. Nordhaus (Rochester Inst. of Tech.), \$87,429 awarded to BU.

“Actively Disintegrating Asteroids around a White Dwarf”, NASA Award connected to time awarded on the Hubble Space Telescope, May 2018 to Jul 2019, PI: S. Xu (European Southern Obs.), \$7,555 awarded to BU.

“A White Dwarf with an Actively Disintegrating Asteroid”, NASA Award connected to time awarded on the Hubble Space Telescope, Feb 2017 to Apr 2018, PI: S. Xu (European Southern Obs.), \$24,166 awarded to BU.

Awarded External Grants as Co-Principal Investigator of the Proposal

“Lock-In Amplified Externally Dispersed Interferometry (LAEDI) for Terrestrial Exoplanet Detection”, JPL Director’s Research and Development Fund, Mar 2012 to Feb 2013, \$194,700 jointly to JPL and Caltech.

Administered External Grants as Principal Investigator (not part of the original proposal team)

“Low-mass Field Stars with Infrared Excesses: Potential Signatures of Planetary Collisions”, NASA Astrophysics Data Analysis Program (ADAP), June 2016 to May 2018, \$124,990.

Awarded External Grants as Collaborator (no funding received)

“A Value-added, Science-enabling Catalog of Precise Stellar Properties for the TESS Mission”, NASA Exoplanet Research Program (XRP), Jan 2018-Dec 2020, PI: K. Stassun (Vanderbilt Univ.)

“The Exoplanet Migration Timescale from K2 Young Clusters”, NASA Astrophysics Data Analysis Program (ADAP), Jan 2018 to Dec 2019, PI: A. Rizzuto (Univ. of Texas Austin)

“Planet Evolution and Fundamental Stellar Parameters at 10-20 Myr After Formation”, NASA K2 Guest Observer Program Cycle 5, Sep 2017 to Aug 2018, PI: A. Rizzuto (Univ. of Texas Austin)

“Planet Formation and Fundamental Stellar Parameters at the Early Stages of Stellar Evolution”, NASA K2 Guest Observer Program Cycle 5, Mar 2017 to Mar 2018, PI: A. Rizzuto (Univ. of Texas Austin)

“Zodiacal Exoplanets in Time (ZEIT): The Hyades Cluster”, NASA K2 Guest Observer Program Cycle 4, Mar 2017 to Mar 2018, PI: A. Mann (Univ. of Texas Austin, now at Univ. of North Carolina)

“Characterizing the Cooler KOIs: Studying the Planet Population around Mid to M Dwarfs”, NASA K2 Guest Observer Program Cycle 1, Jul 2015 to Jun 2016, PI: J. Johnson (Harvard Univ.)

Awarded Internal Grants

“The Art of Astrophysics: A Competition for the BU Community”, The BU Arts Initiative awarded \$750 to support a campus and community gallery show and competition featuring work by artists and scientists inspired by space. I co-organized the event with a postdoc at the time, Dr. Bryce Croll.

“Core Field Trip to Arizona”, The BU Sapiro Academic Enhancement Fund provided \$600 in the Fall of 2017 and \$600 in the Fall of 2018 to support CC 111 student travel to Arizona. Remaining funds were provided by the Broader Impacts component of an NSF AAG (above). I led the field trips.

Professional Service

Referee for Nature Astronomy, The Astrophysical Journal, The Astrophysical Journal Letters, Publications of Astronomical Society of the Pacific, Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics, Astrophysics and Space Sciences. Verified reviews are available on Publons.com (article titles and authors redacted): <https://publons.com/researcher/2517951/philip-steven-muirhead/peer-review/>

Proposal reviewer for NASA Grant Programs ADAP, APRA, K2GO, NESSF, NNEXPLORE, NPP and XRP. Served as Review Panel Chair twice.

Proposal reviewer for the Spitzer Space Telescope (multiple cycles, large and small programs).

Proposal reviewer for Research Corporation for Science Advancement Cottrell Scholars Program.

External international proposal reviewer for the National Science Foundation (Switzerland), Natural Sciences and Engineering Research Council (Canada), National Fund for Scientific and Technological Development (Chile), National Science Centre (Poland).

Core Scientific Organizing Committee and Proposal Team Member for the “20th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun” (“Cool Stars 20”), held at Boston University in July 2018 (525 participants): <http://coolstars20.cfa.harvard.edu>

Co-organizer for “Dwarf Stars and Clusters with K2”, a 3-day meeting held at Boston University, co-organized with NASA (Jan 16-18, 2018, 50 participants): <https://keplerscience.arc.nasa.gov/cluster-workshop/>

Leader of the TESS Cool Dwarf Team, a working group tasked with identifying M dwarfs for short-cadence observations with NASA’s Transiting Exoplanet Survey Satellite (TESS, 2015-2019). TESS is an Explorer-class NASA Mission that launched in 2018.

Member, PLATO Mission Consortium Working Group 122 “Fundamental stellar parameters”. PLATO is a European Space Agency (ESA) Mission with a planned launch in 2024.

Professional Memberships

Full Member, The American Astronomical Society

Full Member, The International Astronomical Union

Full Member, SPIE – The International Society for Optics and Photonics

Full Member, Sigma Xi – The Scientific Research Honor Society

Outreach Activity

Public Talk to BU Academy Students, October 2019.

Public Talk at the Thacher School in Ojai, CA, April 2019.

Public Talk at the Maria Mitchell Association in Nantucket, MA, July 2018.

Public Talk at BU Alumni Weekend, 2018 and 2019.

Main Speaker at “Science with a Pint”, The Burren Irish Pub and Restaurant, Somerville, MA, March 2018.

Co-organizer for “The Art of Astrophysics: A Competition for the BU Community”, funded by the BU Arts Initiative. The 2016 event involved a gallery show and competition featuring space-inspired art and music by local artists and scientists: <http://astroart.bu.edu>

Frequent Participant in BU Open Night at the Observatory (clear Wednesdays):
<https://www.bu.edu/astronomy/events/public-open-night-at-the-observatory/>

Department, Center, College and University Service

Member, College of Arts and Sciences Natural Sciences Taskforce, 2020-2021

Member, Ad Hoc AS/CSP/IAR Lab Reopening Committee, 2020-2021

Member, BU Astronomical Observatories Advisory Committee, 2019-present

Course Coordinator, Core Curriculum, Boston University, Jul. 2020-Dec. 2020

Director, Graduate Admissions, Department of Astronomy, Boston University, Jul. 2019-Jun. 2020

Member, Faculty Advisory Board, Scientific Instrument Facility, Boston University, 2018-present

Member, Discovery Channel Telescope Instrument Advisory Committee, 2017-present (Chair from 2017-2019)

Alternate Member Representative for Boston University, Association of Universities for Research in Astronomy (AURA), 2017-present

Member, Anderson Mesa Observatory Board, Boston University Member, 2016-present

Member, Institute for Astrophysical Research, Boston University, 2013-present

Faculty Sponsor, BU Astronomical Society (student group), 2018-present

Member, Faculty Advisory Committee, Undergraduate Research Opportunities Program (UROP), Boston University, 2016-2019

Member, Ad Hoc Committee to Canvass for a new Director of the Core Curriculum, College of Arts and Sciences, Boston University, 2018-2019

Member, Ad Hoc Committee to Revise the MA/PhD Program in Astronomy, Boston University, 2017-2018

Member, Lecturer Search Committees, The Core Curriculum, Boston University, 2015, 2018 and 2021

Member, Faculty Search Committee, Department of Astronomy, Boston University, 2015-2016

Organizer, Prospective Graduate Student On-Campus Visits, Department of Astronomy, Boston University, 2015, 2019 & 2020

Contributor, Department of Astronomy Academic Program Review Report, Boston University, 2015

Undergraduate Teaching as Primary Instructor

AS 101: *The Solar System* (Spring 2016: 94 students)

AS 105: *Alien Worlds* (Spring 2016: 108 students; Spring 2017: 140 students; Fall 2018: 131 students, Spring 2021: 48 students)

CC 111: *Core Natural Sciences I: Origins* (Fall 2016: 110 students; Fall 2017: 75 students; Fall 2018: 94 students, Fall 2020: 88 students)

AS 202: *Principles of Astronomy I* (Fall 2014: 36 students)

AS 401/402: *Honors Work in Astronomy* (Fall 2016, Spring 2017, 1 student)

AS 441: *Observational Astronomy* (Spring 2020: 15 students)

AS 491: *Directed Study in Astronomy* (Spring 2015: 1 student)

Graduate Teaching as Primary Instructor

AS 712: *Radiative Processes in Astrophysics* (Spring 2015: 15 students)

AS 791: *Special Topics in Astrophysics* (Bayesian Statistics Course, Spring 2018: 6 enrolled students, 5 auditing students)

Other Teaching

AS 699: *Teaching College Astronomy* (Fall 2014: 2 students; Spring 2016: 4 students; Spring 2017: 2 students; Fall 2018: 2 students)

AS 901/902: *Research in Astronomy* (every semester)

Supervised PhD Students at Boston University (as Primary Research Advisor and First Reader)

As advisor, I also served on each student's Oral Exam Committee, Dissertation Steering Committee and PhD Defense Committee

Dr. Paul Dalba (PhD 2018), Dissertation: *On the Atmospheres of Saturn and Cold Gas Giant Extrasolar Planets*, currently an NSF Astronomy and Astrophysics Fellow at the University of California, Riverside.

Dr. Mark Veyette (PhD 2018), Dissertation: *Detailed Chemical Analysis of M Dwarf Stars*, currently a Senior Engineer in the Advanced Projects Division of the Lockheed Martin Corporation.

Dr. Aurora Kesseli (PhD 2019), Dissertation: *The Effects of Metallicity and Magnetism on the Radii of M Dwarf Stars*, currently a Postdoctoral Researcher at Leiden University.

Dr. Eunkyun Han (PhD 2020), Dissertation: *The Mass-Radius Relationship of Low-mass Stars from Kepler Eclipsing Binaries*, currently a Postdoctoral Fellow at the University of Texas, Austin.

Patrick Tamburo (PhD 2022 *expected*), Dissertation: *An Infrared Search for Exosatellites around L and T Dwarfs*

Alice Hall (PhD 2024 *expected*)

Allison McCarthy (Clare Boothe Luce Fellow, NSF GRFP Fellow, PhD 2025 *expected*)

Boston University Graduate Student Committee Memberships

Dr. Dylan Morgan (PhD 2016), PhD Defense Committee Member, Second Reader of the Dissertation, Dissertation Steering Committee Member, Oral Qualifying Exam Committee Member.

Dr. Christopher Theissen (PhD 2017), PhD Defense Committee Member, Dissertation Steering Committee Member, Oral Qualifying Exam Committee Member.

Dr. Dustin Hickey (PhD 2018), PhD Defense Committee Member, Dissertation Steering Committee Member, Oral Qualifying Exam Committee Member.

Dr. Marc Kornbleuth (PhD 2020), PhD Defense Committee Chair, Dissertation Steering Committee Chair, Oral Qualifying Exam Committee Chair.

Dr. Connor Robinson (PhD 2020), PhD Defense Committee Member, Second Reader of the Dissertation, Dissertation Steering Committee Member, Oral Qualifying Exam Committee Member.

Sierra Grant (PhD 2021 *expected*), Dissertation Steering Committee Member, Oral Qualifying Exam Committee Member.

Anneise Rillinger (PhD 2022 *expected*), Dissertation Steering Committee Member, Oral Qualifying Exam Committee Member.

William Saunders (PhD 2022 *expected*), Dissertation Steering Committee Member, Oral Qualifying Exam Committee Member.

External Graduate Student Committee Memberships

Dr. Kevin Hardegree-Ullman (PhD 2018, University of Toledo), External PhD Defense Committee Member, Oral Qualifying Exam Committee Member.

Neda Hejazi (PhD 2021 *expected*, Georgia State Univ.), External Committee Member, Oral Exam Committee Member.

Supervised Undergraduate Students at Boston University (as Primary Research Mentor)

Howard Chen (BA 2016), UROP (Summer 2014, Fall 2014), currently a PhD student at Northwestern University.

Zachary Hall (BA 2017), UROP (Spring 2014, Summer 2014), Research Assistant (Fall 2015, Spring 2016), currently a PhD student at Stanford University in Philosophy.

Madeleine O'Keefe (BA 2018), Work Study Student (Spring 2016), currently a Communications Specialist at the Wisconsin IceCube Particle Astrophysics Center.

Brian Healy (BA with Honors 2017), UROP (Fall 2015), Directed Study, Honors Work in Astronomy, currently a PhD student at Johns Hopkins University.

Sheila Sagar (BA 2020), Research Assistant (Fall 2019, Spring 2020), UROP Mentee (Summer 2017, Fall 2017, Spring 2018, Fall 2018), currently a PhD student at the University of Florida.

Supervised Undergraduate Students from Other Institutions (as Primary Research Mentor)

Jia "Jimmy" Ye (BA/MEng Holy Cross/Columbia '19), summer NSF REU Student (BU 2014).

Hannah Gibson (BA Univ. of Kansas 2018), summer NSF REU Student (BU 2015), currently a PhD student at Purdue University.

Jack Lichtman (BA UConn 2018), summer NSF REU Student (BU 2016).

Jay Chittidi (BA Vassar College 2019), summer NSF REU Student (Maria Mitchell Association 2018), currently a graduate student at CU Boulder.

Georgia Stolle-McAllister (BA 2020 Kenyon College), summer NSF REU Student (Maria Mitchell Association 2019), also advising for her senior thesis research, currently a graduate student at Univ. of Washington.

Supervised Postdoctoral Associates

Dr. Bryce Croll (2015-2017), currently a Machine Learning Researcher at Paravision (Toronto, Ontario).

Dr. Julie Skinner (2016-2018), currently a Systems Analyst at MIT Lincoln Laboratories.

Hosted Visiting Scientists

Dr. Andrew Mann (2014-2015)

Dr. Julie Skinner (2019-2020)

Invited Conference Presentations

Invited Conference Presentations in Reverse Chronological Order

2020:

“Intensification and Saturation of M-dwarf Absorption Lines with Rossby Number”, Invited Research Talk, Exostar Redux - Online Reunion Conference, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, (online), August 26, 2020. <https://www.kitp.ucsb.edu/activities/exostar-oc20>

2019:

“Chemical Ages of M Dwarf Stars and Recent Work on Magnetic Inflation”, Invited Research Talk, Planet-Star Connections in the Era of TESS and Gaia, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, CA, May 23, 2019. Available online here:

http://online.kitp.ucsb.edu/online/exostar_c19/muirhead/

2017:

“Determining Stellar Parameters from Spectroscopic Observations”, Invited Review Talk, Know Thy Star - Know Thy Planet: Assessing the Impact of Stellar Characterization on Our Understanding of Exoplanets, NASA Exoplanet Science Institute, Pasadena, CA, Oct. 11, 2017.

<https://nexsci.caltech.edu/conferences/2017/knowthystar/agenda.shtml>

2016:

“M Dwarf Characterization with Spectroscopy”, Invited Review Talk, Opportunity M, Harvard-Smithsonian Center for Astrophysics, Aug. 30, 2016.

2015:

“So You Found an Exoplanet...A Flow Chart and Priorities for Determining Stellar Parameters”, Invited Review Talk, NASA Exoplanet Program and Analysis Group 11, Seattle, WA, Jan. 4, 2015.

<https://exoplanets.nasa.gov/exep/exopag/exopag11/>

2014:

“Short-period Sub Earths, ‘Discovering’ the Smallest Extrasolar Planets with Accurate Stellar Classification” Invited Research Talk, Hubble Fellows Symposium, Space Telescope Science Institute, Baltimore, MD, March 10, 2014. <https://www.stsci.edu/contents/events/stsci/2014/march/2014-hubble-fellows-symposium>

2013:

“Planets Orbiting M Dwarf Stars: The Most Characterizable Terrestrial Exoplanets are also the Most Abundant”, Invited Plenary Talk, 45th Meeting of the AAS Division for Planetary Sciences, Denver, CO, Oct. 9, 2013. <https://aas.org/meetings/dps45>

2012:

“Determining Physical Parameters of M Dwarf Planet Hosts”, Invited Research Talk, 2012 Sagan Summer Workshop: Working with Exoplanet Light Curves, NASA Exoplanet Science Institute, Pasadena, CA, July 24, 2012. <https://nexsci.caltech.edu/workshop/2012/>

2009:

“Searching for Planets orbiting M Dwarfs with the TripleSpec Exoplanet Discovery Instrument (TEDi)”, Invited Research Talk, 2009 Palomar Science Meeting, California Institute of Technology, Pasadena, CA, Apr. 30, 2009.

Invited Department Colloquia & Seminars

2021:

“The Race to the Bottom: Stellar and planetary astrophysics at the bottom of the main-sequence”, Keele University (UK), Astrophysics Colloquium, Mar. 24, 2021

2019:

“Small Stars with Small Planets and Big Consequences”, Rochester Institute of Technology, Astronomy Colloquium, Nov. 11, 2019

“New Results on the M Dwarf Radius Problem”, Universidad Andrés Bello (Santiago, Chile), Astrophysics Seminar, Jul. 23, 2019

2018:

“Magnetic Inflation and Stellar Mass”, University of Toledo, Astronomy Colloquium, June 26, 2018

“Small Stars with Small Planets and Big Consequences”, Florida Institute of Technology, Department of Aerospace, Physics and Space Sciences, Apr. 17, 2018

“Small Stars with Small Planets and Big Consequences”, University of Michigan, Department of Astronomy Colloquium, Feb. 8, 2018

“Small Stars with Small Planets and Big Consequences”, Texas A&M University, Department of Astronomy & Astrophysics Colloquium, Feb. 5, 2018

2017:

“M Dwarf Atmospheres: The Key to Studying Star and Planet Evolution”, The Pennsylvania State University, Department of Astronomy & Astrophysics Colloquium, Feb. 15, 2017

2016:

“The Evolution of Exoplanets Orbiting Low-mass Stars”, Massachusetts Institute of Technology, Astrophysics Colloquium, Dec. 13, 2016

“The Mysterious Atmospheres of Low-mass Stars, Brown Dwarfs and Cold Jovian (Exo)Planets”, Boston University, Institute for Astrophysical Research Seminar, Nov. 28, 2016

“Small Stars with Small Planets and Big Consequences”, Colby College, Physics Colloquium, Sep. 30, 2016

“Fundamental Properties of M Dwarf Stars and Their Many Exoplanets”, University of Exeter (UK), Astrophysics Seminar, Mar. 6, 2016

“Fundamental Properties of M Dwarf Stars and Their Many Exoplanets”, Universidade do Porto (Portugal), Centre for Astrophysics (CAUP) Seminar, Mar. 8, 2016

2015:

“From TripleSpec to NEWS: Exoplanet Discovery Science with Bread and Butter Infrared Spectroscopy”, University of Texas at Austin, Department of Astronomy Colloquium, Nov. 10, 2015

“From TripleSpec to NEWS: Exoplanet Discovery Science with Bread and Butter Infrared Spectroscopy”, Carnegie Observatories, Oct. 13, 2015

“Small Stars with Small Planets and Big Consequences”, Northwestern University, Astrophysics Seminar, May 7, 2015

2014:

“The Path to Extrasolar Biosignatures”, Cornell University, Department of Astronomy Colloquium, Aug. 28, 2014

“Small Stars with Small Planets and Big Consequences”, Wesleyan University, Department of Astronomy, Colloquium, Feb. 5, 2014

2013:

“Small Stars with Small Planets and Big Consequences”, McGill University/Université de Montréal (Canada), Joint Astrophysics Colloquium, Oct. 1, 2013

“Small Stars with Small Planets and Big Consequences”, Lowell Observatory, Colloquium, Sept. 23, 2013

“Small Stars with Small Planets and Big Consequences”, Harvard-Smithsonian Center for Astrophysics, Colloquium, Sept. 19, 2013. Available online here: <https://www.youtube.com/watch?v=Hj03S0SUfa4>

2012:

“A Mutually-Eclipsing Post-Common Envelope Binary with Precise *Kepler* Photometry”, Cornell University, Astrophysics Lunch Seminar, Dec. 19, 2012

“Small Stars with Small Planets and Big Consequences”, California State University, Northridge, Astronomy Colloquium, Nov. 28, 2012

“Small Stars with Small Planets and Big Consequences”, University of Hawaii at Manoa, Institute for Astronomy Colloquium, Oct. 10, 2012

“Small Stars with Small Planets and Big Consequences”, Harvey Mudd College, Physics Colloquium, Sept. 25, 2012

“Small Stars with Small Planets and Big Consequences”, University of Toronto, Department of Astronomy & Astrophysics Colloquium, Jan. 25, 2012

“Characterizing Exoplanet Hosts at 120 THz”, University of Virginia/National Radio Astronomical Observatory, Joint Colloquium, Apr 19, 2012

“The Cool KOI Program: Small Stars with Small Planets”, Harvard-Smithsonian Center for Astrophysics, OIR Seminar, Feb. 29, 2012

“The Cool KOI Program: Small Stars with Small Planets”, Cornell University, Planetary Lunch Seminar, Feb. 27, 2012

“The Cool KOI Program: Small Stars with Small Planets”, University of California, Los Angeles, iPLEX Seminar, Feb. 10, 2012

“The Cool KOI Program: Small Stars with Small Planets”, Las Cumbres Observatory Global Telescope, Seminar, Jan. 7, 2012

2010:

“Precise Near-Infrared Radial Velocities with the TripleSpec Exoplanet Discovery Instrument (TEDDI)”, California Institute of Technology, Tea Talk Seminar, Dec. 6 2010

“Precise Near-Infrared Radial Velocities with the TripleSpec Exoplanet Discovery Instrument (TEDDI)”, Carnegie Observatories, Lunch Seminar, Nov. 22, 2010

“Precise Near-Infrared Radial Velocities with the TripleSpec Exoplanet Discovery Instrument (TEDDI)”, The Pennsylvania State University, CEHW Seminar, Nov. 18, 2010

“Precise Near-Infrared Radial Velocities with the TripleSpec Exoplanet Discovery Instrument (TEDDI)”, University of California, Berkeley, Space Sciences Laboratory Colloquium, Nov. 5, 2010

Contributed Conference Talks (as Presenter and First Author)

2020:

“Intensification and Saturation of M Dwarf Absorption Lines with Rossby Number”, 235th Meeting of the American Astronomical Society, Honolulu, HI, Jan. 2020

2019:

“Are M Dwarf Exoplanets Extreme?”, Extreme Solar Systems IV, Reykjavik, Iceland, 2019

“Detailed Chemical Analysis of M Dwarf Stars”, 233rd Meeting of the American Astronomical Society, Seattle, WA, Jan. 2019

2018:

“Ages of M Dwarf Stars from their Alpha Enhancement”, 231st Meeting of the American Astronomical Society, National Harbor, MD, Jan. 2018

2017:

“The Puzzling Atmospheres of Low-mass Stars, Brown Dwarfs and Exoplanets Revealed by the Discovery Channel Telescope”, 229th Meeting of the American Astronomical Society, Grapevine, TX, Jan. 2017

2015:

“The Occurrence of Compact Multiples Orbiting Mid-M Dwarf Stars”, Extreme Solar Systems III, Waikaloa, HI, Dec. 2015

“Kepler-445, Kepler-446 and the Occurrence of Compact Multiples Orbiting Mid-M Dwarf Stars”, 225th Meeting of the American Astronomical Society, Seattle, WA, Jan. 2015

2013:

“Characterizing the Cool KOIs”, 221st Meeting of the American Astronomical Society, Long Beach, CA, Jan. 2013

2012:

“Discovering’ Sub-Earth-Sized Exoplanets with TripleSpec”, 2012 Palomar Science Meeting, Pasadena, CA, Nov. 2012

“Distilling Nearby M Dwarfs for Terrestrial Planet Hosts”, Keck Science Meeting, San Diego, CA Sept. 2012. Available online here: <https://youtu.be/RgXr8By0KEw?t=2755>

“The Cool KOI Program: Accurate Physical Parameters of *Kepler* M-Type Planet Hosts”, Transiting Planets in the House of the Sun, Maui, HI, June 2012

“KOI 961: Characterization and Validation of a *Kepler* M-Dwarf Multi-Planet Host”, 219th Meeting of the American Astronomical Society, Austin, TX, Jan. 2012

2011:

“Precise Near-Infrared Radial Velocities with the TripleSpec Exoplanet Discovery Instrument (TEDI)”, 217th Meeting of the American Astronomical Society, Seattle, Jan. 2011

“Characterizing the Cool KOIs I”, Kepler Science Conference, Moffett Field, CA, Dec. 2011

2009:

“A Brief TripleSpec Talk”, 2009 Keck Science Meeting, California Institute of Technology, Sept. 2009

“Searching for Planets orbiting M Dwarfs with the TripleSpec Exoplanet Discovery Instrument (TEDI)”, New Technologies for Probing the Diversity of Brown Dwarfs and Exoplanets, Shanghai, China, July 2009

Contributed Conference Posters (as Presenter and First Author)

2019:

“Design Considerations for a Ground-based Search for Transiting Planets around L and T Dwarfs And PINES: The Perkins Infrared Exosatellite Survey”, The Brown Dwarf Exoplanet Connection III, Newark, DE, Oct. 2019

2016:

“A Catalog of Cool Dwarf Targets for the Transiting Exoplanet Survey Satellite (TESS)”, The 19th Workshop on Cool Stars, Stellar Systems and the Sun, Uppsala, Sweden, June 2016

2014:

“HiJaK: The High-resolution J, H and K Spectrometer”, SPIE Astronomical Telescopes + Instrumentation, Montreal, Canada, June 2014

2013:

“Characterizing the Cool KOIs: An Infrared Spectroscopic Survey of Kepler M Dwarf Planet-Candidate Hosts”, Second Kepler Science Conference, Moffett Field, CA, Oct. 2013

2010:

“Precise Infrared Radial Velocimetry with the TripleSpec Exoplanet Discovery Instrument (TEDI): Current Performance and Results”, Astronomy of Exoplanets with Precise Radial Velocities, University Park, PA, Aug. 2010

“Precise Infrared Radial Velocities with the TripleSpec Exoplanet Discovery Instrument (TEDI): Current Performance and Results”, 215th Meeting of the American Astronomical Society, National Harbor, MD, Jan. 2010

“Precise Infrared Radial Velocimetry with the TripleSpec Exoplanet Discovery Instrument (TEDI): Current Performance and Results”, SPIE Astronomical Instrumentation, San Diego, CA, June 2010

2009:

“Searching for Planets Orbiting M Dwarfs with the TripleSpec Exoplanet Discovery Instrument”, XXVIIth IAU General Assembly, Rio de Janeiro, Brazil, Aug. 2009

2008:

Precise Radial Velocimetry in the Near-Infrared with T-EDI”, 15th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, St Andrews, Scotland, July 2008

2006:

“Precise Radial Velocimetry in the Near-Infrared with T-EDI”, Precision Spectroscopy in Astrophysics, Aviero, Portugal, September 2006

Precise Radial Velocimetry in the Near-Infrared with T-EDI”, 14th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, Pasadena, CA, July 2006

Conferences and Meetings Attended (no formal presentation)

NASA Exoplanet Program and Analysis Group (Multiple Meetings)

SciLog: Time Domain Astrophysics, May 2019

221st Meeting of the American Astronomical Society, National Harbor, MD, Jan. 2014

2013 MESA Summer School, Santa Barbara, CA, August 2013

Kepler Science Working Group Meeting, Mountain View, CA, May 2013

Media Appearances

“Can We Ever Understand the Size of Red Dwarf Stars?” P. Suttor, Space.com, August 9, 2019. (features research by PhD advisee Eunkyun Han). <https://www.space.com/red-dwarf-stars-size-mystery.html>

“His Holy Grail would be detecting life on another planet”, Cindy Atoji Keene, The Boston Globe, June 7, 2018, https://www.bostonglobe.com/business/2018/06/07/his-holy-grail-would-detecting-life-another-planet/Z7IPSIYb4P8SRFaKxrlYUL/story.html?s_campaign=8315

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Publication Links

[Link to all publications on the NASA Astrophysical Data System \(identified by my unique ORCID number\):](https://ui.adsabs.harvard.edu/search/p=0&q=orcid%3A0000-0002-0638-8822)
<https://ui.adsabs.harvard.edu/search/p=0&q=orcid%3A0000-0002-0638-8822>

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[Link to profile on Publons:](https://publons.com/researcher/2517951/philip-steven-muirhead/)
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[Link to profile on ResearchGate:](https://www.researchgate.net/profile/Philip_Muirhead)
https://www.researchgate.net/profile/Philip_Muirhead

Peer-reviewed Publications as First Author or with a Directly Supervised Student as First Author

(Bold indicates authorship, underline indicates a student under my supervision during the effort)

1. Sagear, S. A., Skinner, J. N., & **Muirhead, P. S.** "Upper Limits on Planet Occurrence around Ultracool Dwarfs with K2", 2020, The Astronomical Journal, 160, 19.
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4. **Han, E., Muirhead, P. S., & Swift, J. J.** "Magnetic Inflation and Stellar Mass. IV. Four Low-mass Kepler Eclipsing Binaries Consistent with Non-magnetic Stellar Evolutionary Models", 2019, The Astronomical Journal,158, 111. <https://ui.adsabs.harvard.edu/abs/2019AJ....158..111H>
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