# Peter Plavchan

### **Associate Professor of Astronomy**

### Director, George Mason Observatories

Director, Mason Space Exploration Center

PI, Astrophysics of Exoplanets Instrumentation Lab

Co-PI, MINERVA-Australis & MINERVA-North

### Department of Physics & Astronomy

George Mason University

### Planetary Hall 263

4400 University Dr, MS 3F3

Fairfax, VA 22030

### Cell: (626) 234-1628

Fax: (703) 993-1269

pplavcha@gmu.edu

<http://exo.gmu.edu>

[twitter:@PlavchanPeter](https://twitter.com/PlavchanPeter/)

Education

**University of California, Los Angeles**, Los Angeles, CA 2001-2006

MS, PhD in Physics

**California Institute of Technology**, Pasadena, CA 1996-2001

BS in Physics, with honor

## Employment History

**Associate Professor with tenure,** George Mason University, Fairfax, VA 2020-current

**Assistant Professor,** George Mason University, Fairfax, VA 2017-2020

**Assistant Professor,** Missouri State University, Springfield, MO 2014-2017

**Visiting Professor,** University of Pennsylvania, Philadelphia, PA 2014-2017

**Assistant Research Scientist,** NASA Exoplanet Science Institute, Caltech 2014

**Adjunct Professor,** Cerritos College, Los Angeles, CA 2014

**Assistant Staff Scientist,** NASA Exoplanet Science Institute, Caltech, Pasadena 2008-2014

**Visiting Professor,** University of California, Los Angeles, CA 2010

**Post-Doctoral Scholar,** Caltech, Pasadena, CA 2006-2008

**Doctoral Research,** University of California, Los Angeles 2004-2006

Thesis Title: “M Dwarf Planetary Systems”

Thesis Advisor: Professor Michael Jura (deceased)

**Adjunct Professor,** University of Judaism (now American Jewish U), CA 2004-2006

**Graduate Research,** University of California, Los Angeles 2001-2004

**Volunteer Teacher Team Leader,** Crossing the Digital Divide, Los Angeles,CA 2003-2004

**Teaching Associate**, University of California, Los Angeles 2002-2003

**Teaching Assistant**, University of California, Los Angeles 2001-2002

**Academic Part-Time Employee,** Jet Propulsion Laboratory, Pasadena, CA 1999-2001

**Undergraduate Teaching Assistant**, Caltech, Pasadena, CA 2001

**Summer Undergraduate Research Fellow,** Caltech, Pasadena, CA 1997,1999

## Awards & Honors

Northern Virginia Magazine Best Summer Camps 2024 2024

Interstellar Dreams Space Center Director Summer Camp, George Mason University

University of Southern Queensland Research Giant 2020

George Mason University Core Excellence in Teaching Award 2020

NASA Group Achievement Award 2019

Citation: Astrophysics Large Mission Study Team, for the substantial and effective scientific,technical, and management work in developing the Large Mission Concept Studies for the 2020 Astrophysics Decadal Survey.

NASA Group Achievement Award 2019

Citation: for the delivery of the Exoplanet Standard Definition and Evaluation Team (ExSDET) Final Report, making a substantial contribution that provides unbiased science-yield analysis of the multiple large-mission concepts.

GMU College of Science Dean’s Early Career Excellence Award 2019

GMU College of Science Excellence in Mentoring award nomination 2019

MSU College of Natural and Applied Sciences Research Award 2017

NASA Group Achievement Award 2017

Citation: For the development and tests at Mauna Kea observatories of a near-infrared

Laser Frequency Comb as a wavelength standard for the detection and characterization

of exoplanets.

NASA Honor Achievement Award, NASA Exoplanet Archive Team 2014

Citation: For outstanding achievement in the rapid and on-budget launch of the

NASA Exoplanet Archive

NASA Honor Achievement Award, Spitzer Science In-Reach Team 2010

Citation: For outstanding support of Spitzer IRAC Warm Instrument

Characterization and significant contributions to NASA and JPL commitments

to education of the global community.

UCLA Physics Division Fellowship 2001-2006

Kobe International School of Planetary Sciences Fellowship 2005

Astronomy Department Outstanding Teaching Award 2002-2003

IBM Watson Fellowship 1996-2000

## Professional Membership

**International Astronomical Union**  2003-present

**American Astronomical Society** 2003-present

**Sigma Xi**  2016-2020

**American Association for the Advancement of Science** 2011-2020

**American Chemical Society** 2011-2016

## Press & Outreach

Young Scholars Data Science Internship: Machine Learning, ChatGPT and Bayesian Statistics for Experimental Data Sciences 2023-current

<https://schar.gmu.edu/programs/executive-education/young-scholars-data-science-fall-internship-machine-learning-chatgpt>

Young Astro-Scholars Internship Program: Astronomy Data Analysis and Space Research for NASA missions 2022-current

<https://science.gmu.edu/academics/departments-units/physics-and-astronomy-department/observatory/schar-astro-scholars>

Journal of Astro-Scholars Research (JASR) at George Mason University

Mason Space Day 2022-current

<https://science.gmu.edu/spaceday>

Host, Smithsonian Associate Lectures on Astronomy and Space 2020-current

<https://www.smithsonianmag.com/blogs/smithsonian-associates/2020/11/28/cooking-alex-guarnaschelli-and-25-other-smithsonian-associates-programs-streaming-december/>

Astronomy Festival on the National Mall, organized by Hofstra University 2018-current

Universe Today 2024

“Since Interstellar Objects Crashed Into Earth in the Past, Could They Have Brought Life?”

<https://www.universetoday.com/165096/since-interstellar-objects-crashed-into-earth-in-the-past-could-they-have-brought-life/>

Explore Exoplanets Podcast: The Discovers, Episodes 7 and 8 2023

“All Roads Lead to Trantor,” <https://www.youtube.com/watch?v=Pgp7o_o5I0Y>

“All Roads Lead to AU Mic,” <https://www.youtube.com/watch?v=BuFFGSiDUqY>

NPR Morning Edition 2023

“January’s full moon is known as the wolf moon. Do wolves really howl at a full moon?”

NPR All Things Considered 2023

“Light Pollution Frustrates Astronomers Looking for Discoveries”

<https://www.npr.org/2023/03/19/1164620433/light-pollution-frustrates-astronomers-looking-for-discoveries>

Quanta Magazine, “Rogue Worlds Throw Planetary Ideas Out of Orbit,” 2023

<https://www.quantamagazine.org/rogue-worlds-throw-planetary-ideas-out-of-orbit-20231113/>

Chief Editor, The MOON, Mason Observatory Outreach Newsletter 2020-2022

New York Times about James Webb Space Telescope Naming Controversy 2022

<https://www.nytimes.com/2022/12/19/us/james-webb-telescope-gay-rights.html>

<https://quillette.com/2022/12/25/character-assassination-social-justice-physics/>

<https://www.thecollegefix.com/black-physicist-canceled-for-challenging-narrative-of-homophobic-nasa-telescope/>

Turner Farm Great Falls Observatory Press 2022

<http://www.connectionnewspapers.com/news/2022/sep/28/proposal-dark-sky-preserve/>

<https://www.insidenova.com/news/fairfax/in-great-falls-dark-skies-at-night-are-not-everyones-delight/article_7ae016e2-3aa5-11ed-abca-4b2b267a5b7c.html>

Mason Press Release on student NSF Fellowship 2022

<https://www.gmu.edu/news/2022-05/mason-students-alumna-awarded-prestigious-nsf-fellowships>

Washington Business Journals Press on Space Center 2022

<https://www.bizjournals.com/washington/news/2022/08/29/george-mason-space-talent.html>

“Space Day” , <https://science.gmu.edu/spaceday> 09/10/2022

Host, Evening Under the Stars, GMU Observatory 2020-2022

Association of Universities for Research in Astronomy Press Release 2021

<https://scitechdaily.com/failed-stars-caught-speeding-astronomers-clock-the-fastest-spinning-brown-dwarfs/>

Press on Computing 2021

<https://www.theverge.com/22684730/students-file-folder-directory-structure-education-gen-z>

<https://www.indiatimes.com/technology/news/kids-forgetting-files-and-folders-in-real-life-550467.html>

<https://boingboing.net/2021/09/25/students-dont-organize-files-anymore.html>

<https://www.pcgamer.com/students-dont-know-what-files-and-folders-are-professors-say/>

Mason Press Release 2020

<https://www.gmu.edu/news/2020-12/mason-researcher-helps-lead-search-new-exoplanets>

Mason College of Science Transfer Student Welcome Events 2018-2020

NASA Press Release June 2020

“TESS, Spitzer Missions Discover a World Orbiting a Unique Young Star”

Featuring graduate student Bryson Cale

Sample international press coverage:

<https://www.nature.com/articles/s41586-020-2400-z>

<https://www.nasa.gov/feature/goddard/2020/nasa-s-tess-spitzer-missions-discover-a-world-orbiting-a-unique-young-star>

<https://exoplanets.nasa.gov/resources/2237/flares-of-fury-poster/>

<https://www.jpl.nasa.gov/news/news.php?release=2020-117>

<https://www.youtube.com/watch?v=u7VnZL5wJfk>

<https://www.cnn.com/2020/06/24/world/neptune-size-exoplanet-au-microscopii-baby-star-scn-trnd/index.html>

<https://www.foxnews.com/science/neptune-size-exoplanet-found-close-earth>

<https://www.space.com/tess-spots-fast-planet-around-small-star-au-mic-b.html#xenforo-comments-32151>

<https://skyandtelescope.org/astronomy-news/three-nearby-exoplanets-to-explore/>

<https://www.msn.com/en-us/news/technology/neptune-size-exoplanet-found-zooming-around-nearby-young-star/ar-BB15VzRJ?li=BBnbcA1>

<https://finance.yahoo.com/news/exoplanet-whizzes-around-star-once-170750586.html>

<https://www.cnet.com/news/nasas-planet-hunting-probe-just-discovered-a-world-hidden-in-a-debris-disk/#ftag=CAD590a51e>

<https://uk.yahoo.com/?err=404&err_url=https%3a%2f%2fuk.news.yahoo.com%2fneptune-sized-exoplanet-discovered-orbiting-150000340.html>

<https://www.dailymail.co.uk/sciencetech/article-8455533/Neptune-sized-planet-orbiting-young-star-32-light-years-Earth.html>

<https://www.express.co.uk/news/science/1300760/nasa-discovery-planet-reveal-solar-system-space-news>

<https://news.ucr.edu/articles/2020/06/24/newly-discovered-planet-zips-around-baby-star-week>

<https://news.vanderbilt.edu/2020/06/24/vanderbilt-astronomers-among-nasas-tess-mission-team-to-discover-a-rare-newly-formed-planet/>

<https://www.msstate.edu/newsroom/article/2020/06/msu-stargazers-tanner-geneser-part-new-planet-discovery>

<https://news.uchicago.edu/story/nasas-tess-spitzer-missions-discover-world-orbiting-unique-young-star-near-us>

<https://www.eurekalert.org/pub_releases/2020-06/uom-dae062320.php>

<https://news.umbc.edu/umbcs-tom-barclay-and-nasa-team-discover-neptune-sized-planet-orbiting-young-nearby-star/>

<http://www.spitzer.caltech.edu/news/2289-ssc2020-13-NASA-s-TESS-Spitzer-Missions-Discover-a-World-Orbiting-a-Unique-Young-Star>

<https://www.usq.edu.au/news/2020/06/australia-helping-nasa>

<http://www.exoplanetes.umontreal.ca/discovering-an-exoplanet-the-size-of-neptune/?lang=en>

<http://news.unm.edu/news/nasas-tess-spitzer-missions-discover-a-world-orbiting-a-unique-young-star>

<https://manoa.hawaii.edu/news/article.php?aId=10739>

<https://www.hawaii.edu/news/2020/06/24/infant-planet-discovered/>

<https://montreal.ctvnews.ca/montrealer-helps-discover-an-exoplanet-the-size-of-neptune-1.5001242>

<https://www.syfy.com/syfywire/neptune-sized-exoplanet-found-spinning-around-a-hyperactive-star>

<https://www.henryherald.com/news/world_nation/neptune-size-exoplanet-found-zooming-around-nearby-young-star/article_8b997a5e-50ae-54b9-875c-782e2a1c540f.html>

<https://dailygalaxy.com/2020/06/nasa-astronomers-witness-birth-of-red-dwarf-star-system-orbited-by-its-planet-in-a-week/>

<https://cosmosmagazine.com/space/astrophysics/astrophysicists-find-the-exoplanet-they-wanted/>

<https://www.plymouthherald.co.uk/news/uk-world-news/exoplanet-size-neptune-discovered-orbiting-4258960>

<https://www.lavanguardia.com/vida/20200624/481940351094/descubren-un-planeta-en-formacion-alrededor-de-la-estrella-au-mic.html>

<https://www.publimetro.com.mx/mx/noticias/2020/06/24/ciencia-un-planeta-tamano-neptuno-hallado-orbitando-una-joven-estrella-vecina.html>

<http://www.wirenewsfax.com/they-find-a-planet-the-size-of-neptune-around-a-young-star-nearby>

<https://www.sciencecodex.com/infant-planet-discovered-uh-astronomers-maunakea-telescope-650363>

<https://www.irishexaminer.com/breakingnews/world/neptune-sized-exoplanet-discovered-orbiting-young-star-not-far-from-earth-1007173.html>

<https://www.jacksonprogress-argus.com/news/world_nation/neptune-size-exoplanet-found-zooming-around-nearby-young-star/article_01210a5c-e182-5525-967a-f9d726ae635a.html>

<https://scitechdaily.com/astonomers-discover-infant-neptune-sized-planet-that-zips-around-its-star-in-8-days/>

<https://www.narcity.com/news/ca/qc-en/montreal-en/exoplanet-discovery-made-possible-with-help-from-a-canadian-scientist>

<https://www.mtlblog.com/news/canada/qc/montreal/a-new-exoplanet-the-size-of-neptune-has-been-discovered-thanks-to-a-montreal-scientist>

<https://translate.google.com/translate?sl=auto&tl=en&u=https%3A%2F%2Fwww.numerama.com%2Fsciences%2F633228-ce-bebe-planete-peut-nous-apprendre-comment-la-terre-sest-formee.html>

<https://www2.gmu.edu/news/587191>

STEM in 30 Webisode, Smithsonian National Air and Space Museum 2020

“Diamonds in the Sky: Stars and Exoplanets,”

Featuring research undergraduates Natasha Latouf and Mary Jimenez

<https://www.youtube.com/watch?v=21azRWh4-ok>

The discovery of TOI 700 d (co-author) 2020

“NASA Planet Hunter Finds its 1st Earth-size Habitable-zone World”

<https://www.nasa.gov/feature/goddard/2020/nasa-planet-hunter-finds-its-1st-earth-size-habitable-zone-world>

Sample international press coverage:

<https://time.com/5763768/toi-700-d-goldilocks-planet/>

<https://www.forbes.com/sites/jamiecartereurope/2020/01/07/welcome-to-toi-700-d-the-first-earth-size-habitable-zone-world-found-by-nasas-planet-hunter/#75b967577a65>

<https://www.scientificamerican.com/article/astronomers-just-found-another-potentially-habitable-exoplanet-what-happens-next/>

Stony Brook University News, profile of former research intern 2020

“Perri Zilberman ’21 Probes the Nature of Matter”

<https://news.stonybrook.edu/student-spotlight/perri-zilberman-21-probes-the-nature-of-matter/>

WFIRST Congressional Advocacy Day, Capitol Hill 2018-2019

SPACEREF news coverage 2019

“The Revised TESS Input Catalog and Candidate Target List”

<http://www.spaceref.com/news/viewsr.html?pid=52529>

Astrobiology Web 2019

“Ground-based Radial Velocity as Critical Support for Future NASA Earth-Finding Missions”

<http://astrobiology.com/2019/03/ground-based-radial-velocity-as-critical-support-for-future-nasa-earth-finding-missions.html>

“Towards Finding Earth 2.0: Masses and Orbits of Small Planets with Extreme Radial Velocity Precision”

<http://astrobiology.com/2019/03/toward-finding-earth-20-masses-and-orbits-of-small-planets-with-extreme-radial-velocity-precision.html>

Skype call with 2nd graders, 2019/02/04 2019

JPL NASA Press Release, “Taking the astronomical road less traveled,” 2018

<https://exoplanets.nasa.gov/news/1510/taking-the-astronomical-road-less-traveled/>

NOVA Community College Transfer Student event, 2018/11/13 2018

Book reading with childcare center 2018

NASA Press Release 2017

“NASA Selects Medium-scale Space Mission Concepts to Study for 2020 Astrophysics Decadal Survey”

<https://exoplanets.nasa.gov/news/1425/nasa-selects-medium-scale-space-mission-concepts-to-study-for-2020-astrophysics-decadal-survey/>

MSU Press Release: “The age-old question: Are there other Earths?” 2017

<https://news.missouristate.edu/2017/03/23/age-old-question-earths/>

The Standard, MSU Newspaper 2017

“Spotlight Series: MSU team funded by NASA, researching exoplanets”

<http://www.the-standard.org/life/spotlight-series-msu-team-funded-by-nasa-researching-exoplanets/article_259a90d0-2ee5-11e7-b4f7-33f2608de1f8.html>

Missouri State University Solar Eclipse Event 2017

Springfield Public Library Solar Eclipse Event 2017

Skype call with elementary school children about Solar Eclipse 2017

Debunking claims of alien civilization detections , various 2017

<http://fivethirtyeight.com/features/is-that-an-alien-signal-please-answer-on-a-scale-of-1-to-10/>

OTC “Middle College” final class project presentation evaluator 2016-2017

Astronomy Journal Club, MSU 2016-2017

KSMU NPR Radio, STEM Spots 2016-2017

<http://ksmu.org/post/eclipse-it-doesnt-block-our-love-science>

<http://ksmu.org/post/trappist-1-system-now-it-getting-close-home>

<http://ksmu.org/post/how-microvae-helped-find-new-galaxies>

<http://ksmu.org/post/planets-formed-dust-gas-and-some-luck>

KOLR 10 News Lead Story on “Snow Moon” 2017

<https://twitter.com/PlavchanPeter/status/830268723130990593>

Ferguson High School Physics Class MSU Recruiting Talk, 2016/10/06 2016

JPL NASA Press Release, “Light echoes give clues to young star’s 2016

protoplanetary disc”

“Surely You’re Joking” science comedy podcast 2016

“Prof. Peter Plavchan, Richard Chassler and the ensemble of alien mega-structures,”

<https://soundcloud.com/surely-youre-joking/peter-plavchan>

KSMU NPR Radio, STEM Spots 2016

“Planets: Formed From Dust, Gas, and Some Luck,”

<http://ksmu.org/post/planets-formed-dust-gas-and-some-luck>

Carnegie Science Press Release 2016

“New Tool Refines Exoplanet Search”

<https://www.eurekalert.org/news-releases/518477>

Caltech, Keck Observatory Press Release (covered in Pasadena NOW) 2016

“Novel Calibration Tool Will Help Astronomers Look for Habitable Exoplanets”

Springfield News Leader Newspaper article 2015

“MSU student working to solve costly problem in astronomy”

KSMU NPR Radio, STEM Spots 2015

“MSU Professor Explores The Heavens to Find the Next Earth,”

<http://ksmu.org/post/msu-professor-explores-heavens-find-next-earth>

MSU Press Release, “Astronomy professor studies Earth-like planets,” 2015

Featured in Science Magazine news as “Closest Exoplanet is Remarkably Earth-Sized”

<https://news.missouristate.edu/2015/03/23/professoreyesearthlikeplanet/>

The Standard, MSU Newspaper, “Twinkle twinkle, little star” 2015

JPL NASA Press Release, “Spitzer Discovers Young Stars with a Hula-Hoop” 2013

JPL NASA Press Release, “Stars Don’t Obliterate Their Planets (Very Often)” 2013

AAS, UCLA Press Release, “The Case of the Missing Disks” 2005

## External Grants

**Principal Investigator or Science Lead:**

NASA PIONEERS mission 2024 $19.5M

NASA Congressional Community Project 2024 $980k

NSF INCLUDES Pilot Program Grant 2023 $556k

NASA Goddard Contract 2022 $15k

NASA Keck Observing Grant 2022 $5k

NASA NEID Observing Grant 2021 $5k

NSF AGEP Supplement 2021 $60k

JPL Research and Technology Development 2021 $26k

NSF Astronomy and Astrophysics Grant 2021 $124k

NASA TESS Mission Cycle 3 Guest Investigator 2021 $50k

NASA Keck Observing Grant 2020 $15k

NSF REU award supplement 2020 $24k

NASA SmallSAT Study for ORCAS 2020 $19.2k

NASA Goddard Contract 2020 $19k

NASA Exoplanet Research Program Grant 2020 $478k

Vanderbilt Graduate Student Contract 2019 $21k

NASA ExEp Research Contract 2019 $14k

Sci-STEPS Summer Student Fellowship 2019 $5k

Mt Cuba Astronomical Foundation Grant 2018 $100k

NSF Astronomy and Astrophysics Grant 2017 $363k

NASA EarthFinder Probe Mission Study Grant 2017 $128k

NASA ExEP Research Contract 2017 $106k

AAS International Travel Grant 2016 $1.2k

NASA EPSCoR Research Infrastructure Development 2015 $38k

JPL Research Contract 2015 $5k

JPL Research and Technology Development 2013 $200k

JPL Research and Technology Development 2012 $190k

JPL Center for Exoplanet Science 2011 $15k

JPL Center for Exoplanet Science 2010 $6k

JPL Center for Exoplanet Science 2009 $14k

Spitzer Space Telescope, GO-6 2009 $35k

Spitzer Space Telescope, GO-5 2008 $46k

**Co-Investigator: (significant funded role):**

Spitzer Space Telescope, GO-8 2011 $15k

Spitzer Space Telescope GO-6 Exploration Science 2009 $600k

SIM Science Study 2009 $75k

Spitzer Space Telescope, GO-4 2007 $5k

**Total in career: $23.6M**

## Internal Grants

**Principal Investigator or Science Lead:**

Strategic Investment Fund – RISE Program 2023 $802k

GMU Observatory Foundation Funds 2020-current $25k

GMU Observatory Operating Budget 2019-2023 $16k

GMU OSCAR USRP Summer Intensive 2019 $5k

GMU OSCAR USRP Summer Intensive 2018 $10k

GMU Department Student Travel Fund 2018 $2k

GMU COS Research Instructional Equipment Grant 2017 $150k

George Mason Startup Funds 2017 $125k

Missouri State University Graduate College Research 2014 $7.5k

Missouri State University Startup Funds 2014 $75k

## Accepted Observing Proposals

**Principal Investigator/Technical Contact:**

1.25 nights, NASA Keck Telescope time 2020B

Many nights, IRTF iSHELL near-infrared absorption gas cell instrument 2016-2021

24 hours, Spitzer Space Telescope Director’s Discretionary Time 2019

24 hours, Spitzer Space Telescope Director’s Discretionary Time 2019

76 nights, IRTF CSHELL near-infrared absorption gas cell instrument 2014-2016

2 nights, Palomar AO imaging 2012-2013

23 nights, IRTF CSHELL near-infrared absorption gas cell instrument 2010-2012

10 nights, SMARTS Andicam 2009-2011

51 hours, Spitzer Space Telescope, IRAC, MIPS & IRS GTO-4,5,GO-5,6

2.5 nights, Keck Observatory, 10m Keck II, Nirspec Spectrograph 2006-2008

32 nights, Lick Observatory, 3.0m Shane, KAST + Hamilton Spectrographs 2004-2006

18 nights, Lick Observatory, 1.0m Nickel, CCD imaging 2004

**Co-Investigator: (significant role):**

20 nights, IRTF iSHELL near-infrared absorption gas cell instrument 2022B

Shared risk time, NEID spectrometer, WIYN telescope 2021

4,15 orbits, Hubble Space Telescope, Cycle 28 2020

29 orbits, Hubble Space Telescope, Cycle 27 2019

2672 hours, Spitzer Space Telescope, warm IRAC imaging, and multiple

ground-based supporting observations 2009-2013

2 nights, Keck Observatory 2009A,2012B

## Graduate Students (18) and Postdocs (1)

PhD thesis committee chair, current or planned – **6** **bold**; Thesis committee – **2** **blue**

1. **Patrick Newman** Graduate MSU🡪GMU 2016-current
2. **Mohammed El Mufti** Graduate GMU 2018-current
3. **Kevin Collins** Graduate GMU 2019-current
4. **David Vermilion** Graduate GMU 2018-current
5. Kyle Aldridge Masters GMU 2024
6. Viraj Darji Masters GMU 2023
7. **Justin Wittrock** Graduate GMU 2018-2023
8. **Dax Feliz** Graduate Vanderbilt 2018-2022
9. **Bryson Cale** Graduate MSU🡪GMU 2016-2021

🡪 NASA Prize Postdoctoral Fellow at the NASA Exoplanet Science Institute

🡪 Staff Scientists, UCSD

1. **Brianna Galgano** Masters Bridge Vanderbilt 2019-2021

🡪 John Hopkins Astronomy PhD program

1. Shannon Dulz Graduate Notre Dame 2018-2020
2. Sheldon Takeall Graduate GMU 2019
3. Elise Furlan Postdoctoral Scholar NExScI/Caltech 2014

🡪 Caltech/IPAC Research Associate

1. Jonathan Gagne Visiting grad student NExScI/U.Montreal 2014-2015

🡪 NASA Sagan Prize Postdoctoral Fellow

🡪 Researcher, Rio tinto Alcan Planetarium, University of Montreal

1. Michael Bottom Graduate student Caltech 2012-2013

🡪 JPL Research Scientist  
🡪 Professor, U. Hawaii

1. Peter Gao Graduate student Caltech 2011-2015

🡪 NASA Ames Prize Postdoctoral Fellow

🡪 51 Peg b Fellow @ UC Berkeley

🡪 Scientist, Carnegie DTM

1. Huan Meng Visiting grad student NExScI/U.Arizona 2013

🡪 University of Arizona postdoctoral scholar

1. Tina Gueth Research Assistant Caltech 2010

🡪 New Mexico Tech graduate student in physics

🡪 Adjunct faculty

1. **J. Rob Parks** Visiting grad student NExScI/Georgia State 2009-2010

🡪 Georgia State postdoctoral scholar

🡪 Mason term assistant professor

## Post-bac (3), Undergraduate (55), High School (25), and Middle School Students (2)

1. Elijah Aduna Undergraduate GMU 2024-current
2. Elizabeth Lillehei Undergraduate GMU 2024-current
3. Alexia Marie De Costa Undergraduate GMU 2024-current
4. Anosha Saleh Undergraduate GMU 2024-current
5. Connor Feldpausch Undergraduate GMU 2023-current
6. Jonathan Saldana Undergraduate GMU 2023-current
7. Tommy Thomas Undergraduate GMU 2023-current
8. Owen Sowalla Undergraduate GMU 2023-current
9. Alan Zhu High School HS 2023-current
10. David Cao High School HS 2023-current
11. Dawn Pierce Undergraduate GMU 2022-current
12. Nasiir Davis-Barkley Undergraduate GMU 2022-current
13. Aiden Kriel Undergraduate GMU 2022-current
14. Alex Dorsey High School HS 2023-2024
15. Amelia Yu High School HS 2022-2023
16. Sebastian Arnez Undergraduate GMU 2022-2023
17. Ian Helm Undergraduate GMU 2021-2023
18. Azmera Gebre High School HS 2023
19. Aditeya Banerjee High School HS 2023
20. Gurbir Singh Undergraduate GMU 2022
21. Yushu Zhang High School ASSIP-HS 2022
22. Salma Yusuf High School ASSIP-HS 2022
23. Alexandra Boicu High School ASSIP-HS 2022
24. Sudhish Chimadalinne High School ASSIP-HS 2020-2022
25. Owen Alfaro Undergraduate GMU 2020-2022
26. Deven Combs Undergraduate GMU 2020-2021
27. Michael Bowen Undergraduate GMU 2020-2021
28. Natasha Latouf Undergraduate GMU 2017-2021

🡪 George Mason PhD student in astronomy

1. Carl Tchatchouang Undergraduate GMU 2017-2021
2. Mary Jimenez Undergraduate GMU 2018-2021
3. Caitlin Stibbard Undergraduate GMU 2019-2021
4. Michael Reefe Undergraduate GMU 2019-2021
5. Kevin Eastridge Undergraduate GMU 2020-2021
6. John Berberian High School VA-HS 2019-2021
7. Kingsley Kim High School ASSIP-HS 2020-2021
8. Jackie Liu High School ASSIP-HS 2021
9. Isaac Meite High School ASSIP-HS 2021
10. Ben Chang High School ASSIP-HS 2021
11. William McLaughlin High School ASSIP-HS 2021
12. Shreyas Banaji Middle School VA-HS 2019-2020
13. Srihan Kotnana Middle School ASSIP-YR 2019-2020
14. Shawn Foster Post-Bac Georgia Tech 2018-2020
15. Kennedy Jeter High School STEMShip 2019-2020
16. Vedhas Banaji High School VA-HS 2019-2020

🡪 Columbia undergraduate

1. Anoushka Chintada High School ASSIP-HS 2019-2020

🡪 UCLA undergraduate

1. Sherrie Feng High School ASSIP-HS 2019-2020

🡪 Yale undergraduate

1. Taylor Ellingson Undergraduate GMU 2020
2. Sophia Economon Undergraduate ASSIP 2019
3. Saptarshi Biswas High School VA-HS 2019
4. Krupa Natarajan High School VA-HS 2019
5. Nick Pepin Undergraduate GMU 2018-2019
6. Bahaa Hamze Post-Bac, Observatory Asst. GMU 2018-2019
7. Jocelyn Quispe Post-Bac GMU 2018-2019
8. Ben Tieu Undergraduate GMU 2018-2019
9. William Matzko Undergraduate GMU 2018-2019

🡪 George Mason PhD student in astronomy

1. David Rea Undergraduate GMU 2017-2019

🡪 Iowa State PhD student in astronomy

1. Bahaa Hamze Undergraduate GMU 2017-2018

🡪 GMU Observatory Assistant

1. Daniel LeBrun Undergraduate GMU 2017-2018

🡪 Lockheed Martin detector development

1. Heena Chotani Undergraduate GMU 2018
2. Monica Vidaurri Undergraduate GMU 2018
3. Scott Webster Undergraduate GMU 2018
4. Matthew Cheung High School STEMShip 2018
5. Zach Nofal High School VA-HS 2018
6. Shannon Dulz Undergraduate MSU 2016-2017

🡪 Notre Dame PhD student in astronomy

1. America Nishimoto Undergraduate MSU 2016-2017
2. Chris Klenke Undergraduate MSU 2016-2017
3. Frank Giddens Undergraduate MSU 2016-2017
4. Andrew Cancino Undergraduate MSU 2016-2017
5. Joseph Huber Undergraduate MSU 2015-2017
6. Ryan Hall Undergraduate MSU 2015-2017

🡪 Georgia State PhD student in astronomy

1. Perri Zilberman High School JFK, NY 2015-2017

🡪 Boston University undergraduate

1. Claire Geneser Undergraduate MSU 2014-2016

🡪 Mississippi State PhD student in astronomy

1. Denise Weigand Undergraduate Central Methodist U 2016
2. Krishan Nelson Undergraduate MSU 2016
3. Joe Regan Undergraduate MSU 2015
4. Andrew Stufflebeam Undergraduate MSU 2014-2015

🡪 Network management for 600-person brewery

1. Garrett Pohl Undergraduate MSU 2014
2. Nick Ogden Undergraduate MSU 2014
3. Chris Bilinski Undergraduate Caltech 2010-2011

🡪 U. Arizona Graduate School in astronomy

1. Sean Mills Undergraduate Caltech 2010-2012

🡪 U. Chicago Graduate School in astronomy 🡪 Caltech Postdoctoral Scholar

1. Nadanai Laohakunakorn Visiting Undergraduate Caltech/UK 2009

🡪 University College London Graduate School in Applied Physics

1. Giri Gopalan Undergraduate Caltech 2009

🡪 Harvard Graduate School in Statistics🡪 Iceland Graduate School in Climate Science

1. Alan Gee Undergraduate Caltech 2007

🡪 MIT Lincoln Labs

1. Lisbeth Jensen Undergraduate UCLA 2005

🡪 Cal State Northridge Masters in Astronomy

1. Patricia Wells Undergraduate UCLA 2005

**Local Service**

“Young Scholars Data Science Internship: Machine Learning, ChatGPT and

Bayesian Statistics for Experimental Data Sciences,”

Mason Schar School of Policy and Government and College

Of Science 2023-current

“Five-Week Young Astro-Scholars Internship: Astronomy Data Analysis

And Space Research for NASA Missions,” Mason Schar

School of Policy and Government and College of Science 2022-current

Co-Organizer, Mason Annual Space Day 2022-current

Director, Mason Space Exploration Center 2021-current

Host, Smithsonian Associates Space Lectures 2020-current

Director, George Mason Observatories 2019-current

GMU University Bike Advisory committee 2019-current

Friends of the Observatory Student Club Faculty Advisor 2017-current

GMU Department Recruiting & Retention Committee Chair 2017-2024

GMU College of Science Faculty Chair 2023-2024

GMU College of Science Faculty Chair Pro Tem 2022-2023

Chief Editor, the MOON, Mason Observatory Outreach Newsletter 2020-2022

Host, Evenings Under the Stars, Mason Observatories 2020-2022

GMU College of Science Faculty Secretary 2020-2022

SPS Society Faculty Contact for GMU Chapter 2017-2021

GMU-NOVA Community College Physics Faculty Get-together Coordinator 2018-2020

GMU University OSCAR USRP (Undergraduate Research) Committee 2018-2020

Weekly Department Coffee organizer 2018-2020

College of Science creator of STEM Transfer Student Welcome events 2018-2019

GMU LOC member for “Apollo 11 to New Horizons” conference 2019

GMU Physics & Astronomy Department Seminar organizer 2018-2019

Assistant Director, George Mason Observatory 2017-2019

MSU “Young Guns” Website Committee 2015-2017

MSU Coordinator, 2017 Solar Eclipse Event 2017

MSU Masters in Natural and Applied Sciences, Astronomy Focus creator 2015-2017

Faculty Mentoring Certificate of Appreciation 2016

**National Service**

Associate Editor, Exoplanets, Frontiers in Astronomy and Space Sciences 2023-current

NASA Review Panel 2024

NSF Review Panel 2024

NASA Review Panel 2021

NSF Review Panel 2021

NASA Review Panel 2020

NSF Review Panel 2020

NASA Exoplanet Science Strategy: Extreme Precise Radial Velocity Initiative

Steering Group <https://exoplanets.nasa.gov/exep/NNExplore/EPRV/> 2019-2020

NASA Review Panel 2019

NSF Graduate Research Fellowship Program Panel 2018

Executive Committee, NASA Exoplanet Exploration Program Analysis Group 2012-2016

NSF Astronomy and Astrophysics Review Panel 2013,2016,2018

Subaru Telescope Key Project Review 2018

NSF NNEXPLORE Review 2017

NSF Review Panel 2017

NASA Review Panel 2017

Polish Grant Review 2016

External Thesis Review 2016

Kepler GO Review Panel 2015

Kepler PSP Review Panel 2013

Kepler GO Review Panel, Cycle 3 2011

Referee, Astronomy & Astrophysics 2021

Referee, AAS Journals 2020

Referee, Astronomy & Astrophysics 2015

Referee, Monthly Notices of the Royal Astronomical Society 2012-2013

Referee, Astrophysical Journal 2012

Referee, Astronomical Journal 2010

SOC: CHEXO 2017-2020

SOC: Extreme Radial Velocities II, Yale 2015

Co-Chair, Cool Stars 16 Splinter Session 2010

LOC: PSU/CEHW/NExScI Precision RV Workshop 2010

Volunteer: “Ask an Astronomer,” Annual JPL Open House 2008-2010

LOC: 5th Spitzer Conference: New Light on Young Stars 2008

LOC: Annual JPL Spitzer Science Fair 2007, 2008

**Major Research Collaborations**

Near-Infrared Radial Velocities Collaboration 2009-current

PI

LSST Stellar Populations Science Collaboration 2011-current

MINERVA 2013-current

Co-PI, formerly Spectrograph Scientist

MINERVA-Australis 2016-current

Co-PI

iSHELL Science Team 2017-current

NASA TESS Mission Follow-Up Working Group 2018-current

HISPEC/MODIUS Science Definition Team 2019-current

ORCAS Mission Concept Science Team 2019-current

Landold Mission 2020-current

NASA EarthFinder Probe Mission Concept Study 2016-2020

PI

The KELT Survey Follow-Up Network 2017-2020

NASA HabEx Mission Concept Study Science & Technology Definitions Team 2017-2019

Sci-STEPS NSF INCLUDES Pilot Study Team 2016-2019

Former co-Chair, Transfer Student Retention Juncture Team

NASA TESS Mission Target Selection Working Group 2013-2019

YSOVAR & CSI 2264 Collaborations 2008-2016

Weather on Other Worlds 2011-2015

The Palomar Transient Factory Orion Project 2011-2015

NASA WFIRST Mission Target Selection Working Group 2017

NASA Spitzer Mission MIPS GTO team 2004-2008

**Refereed Publication Statistics**

**Refereed publications:** 141

**Refereed h-index**: 42 [source: [NASA ADS](https://ui.adsabs.harvard.edu/search/q=author%3A(%22Plavchan%2C%20P%22)&sort=date%20desc%2C%20bibcode%20desc&p_=0)]

**Refereed citations:** 7548 all, 771 first author

**bold** – 12 refereed first author; **blue** – refereed student led paper/second author; red – mentored student author

**Refereed Journal Publications – 141**

**Submitted:**

**Cao, David ; Plavchan, Peter; Summers, Michael; “The Implications of `Oumuamua on Panspermia,” 2024, AAS Journals, submitted,** [**arXiv:2401.02390**](https://ui.adsabs.harvard.edu/abs/2024arXiv240102390C/abstract)

Plavchan, Peter ; Berberian, John E., Jr ; Kane, Stephen R ; Morgan, Rhonda ; Peretz, Eliad ; Economon, Sophia; “Analytic relations assessing the impact of precursor knowledge and key mission parameters on direct imaging survey yield,” 2024, AAS Journals, submitted, [arXiv:2401.02039](https://ui.adsabs.harvard.edu/abs/2024arXiv240102039P/abstract)

**2024:**

141. Lowson, N. ; Zhou, G. ; Huang, C. X. ; Wright, D. J. ; Edwards, B. ; Nabbie, E. ; Venner, A. ; Quinn, S. N. ; Collins, K. A. ; Gillen, E. ; Battley, M. ; Triaud, A. ; Hellier, C. ; Seager, S. ; Winn, J. N. ; Jenkins, J. M. ; Wohler, B. ; Shporer, A. ; Schwarz, R. P. ; Murgas, F. ; Pallé, E. ; Anderson, D. R. ; West, R. G. ; Wittenmyer, R. A. ; Bowler, B. P. ; Horner, J. ; Kane, S. R. ; Kielkopf, J. ; Plavchan, P. ; Zhang, H. ; Fairnington, T. ; Okumura, J. ; Mengel, M. W. ; Addison, B. C.; “Two mini-Neptunes transiting the adolescent K-star HIP 113103 confirmed with TESS and CHEOPS,” 2024, Monhtly Notices of the Royal Astronomical Society, 527, 1146

140. Orell-Miquel, J. ; Carleo, I. ; Murgas, F. ; Nowak, G. ; Palle, E. ; Luque, R. ; Masseron, T. ; Sanz-Forcada, J. ; Dragomir, D. ; Dalba, P. A. ; Tronsgaard, R. search by orcid ; Wittrock, J. ; Kim, K. ; Stibbards, C. ; Collins, K. I. search by orcid ; Plavchan, P. ; Howell, S. B. ; Furlan, E. ; Buchhave, L. A. ; Gnilka, C. L. ; Gupta, A. F. ; Henning, Th. ; Lester, K. V. ; Rodriguez, J. E. ; Scott, N. J. ; Osborn, H. P. ; Villanueva, S., Jr. ; Seager, S. ; Winn, J. N. ; Jenkins, J. M. ; Vanderspek, R. ; Latham, D. W. ; Rowden, P. ; Watanabe, D. ; Torres, G. ; Burke, C. J. ; Daylan, T. ; Barclay, T. ; Twicken, J. D. ; Ricker, G. R.; “Revisiting the warm sub-Saturn TOI-1710 b,” 2024, Astronnomy & Astrophysics, in press, [arXiv:2401.13574](https://ui.adsabs.harvard.edu/link_gateway/2024arXiv240113574O/arxiv:2401.13574)

139. Page, Emma ; Pepper, Joshua ; Wright, Duncan ; Rodriguez, Joseph E. ; Wittenmyer, Robert A. ; Kane, Stephen R. ; Addison, Brett ; Bedding, Timothy ; Bowler, Brendan P. ; Barclay, Thomas ; Collins, Karen A. ; Evans, Phil ; Horner, Jonathan ; Jensen, Eric L. N. ; Johnson, Marshall C. ; Kielkopf, John ; Mireles, Ismael ; Plavchan, Peter ; Quinn, Samuel N. ; Seager, S. ; Stassun, Keivan G. ; Striegel, Stephanie ; Winn, Joshua N. ; Zhou, George ; Ziegler, Carl ; “TOI-1994 b: A Low Mass Eccentric Brown Dwarf Transiting A Subgiant Star,” 2023, Astronomical Journal, 167, 109, [arXiv:2305.08836](https://ui.adsabs.harvard.edu/abs/2023arXiv230508836P/abstract)

138. Waalkes, William ; Berta-Thompson, Zachory ; Newton, Elisabeth ; Mann, Andrew ; Gao, Peter ; Wakeford, Hannah ; Alderson, Lili ; Plavchan, Peter ; 2023, “Quantifying the Transit Light Source Effect: Measurements of Spot Temperature and Coverage on the Photosphere of AU Microscopii with High-Resolution Spectroscopy and Multi-Color Photometry,” Astrophysical Journal, 962, 97, [arXiv:2310.17043](https://ui.adsabs.harvard.edu/abs/2023arXiv231017043W/abstract)

**2023:**

137. Cale, Bryson L. ; Kesseli, Aurora ; Beichman, Charles ; Vasisht, Gautam ; Gibson, Rose K. ; Oppenheimer, Rebecca ; Fucik, Jason ; Mawet, Dimitri ; Paine, Christopher ; Matthews, Kittrin ; Lockhart, Thomas ; Halverson, Samuel ; Shen, Boqiang ; Bagheri, Mahmood ; Leifer, Stephanie ; Plavchan, Peter ; Hover, David ; “Commissioning observations of HD 189733 with the Palomar Radial Velocity Instrument,” 2023, Journal of Astronomical Telescopes, Instruments and Systems, 9, 038006

136. Clark, Jake ; Addison, Brett ; Okumura, Jack ; Vach, Sydney ; Heitzmann, Alexis ; Rodriguez, Joseph ; Wright, Duncan ; Clerte, Mathieu ; Brown, Carolyn ; Fetherolf, Tara ; Wittenmyer, Robert ; Plavchan, Peter ; Kane, Stephen ; Horner, Jonathan ; Kielkopf, John ; Shporer, Avi ; Tinney, C. ; Hui-Gen, Liu ; Ballard, Sarah ; Bowler, Brendan ; Mengel, Matthew ; Zhou, George ; Lee, Annette ; David, Avelyn ; Heim, Jessica ; Lee, Michele ; Sevilla, Veronica ; Zafar, Naqsh ; Hinkel, Natalie ; Allen, Bridgette ; Bayliss, Daniel ; Berberyan, Arthur ; Berlind, Perry ; Bieryla, Allyson ; Bouchy, Francois ; Brahm, Rafael ; Bryant, Edward ; Christiansen, Jessie ; Ciardi, David ; Ciardi, Krys ; Collins, Karen ; Dallant, Jules ; Davis, Allen ; Diaz, Matias ; Dressing, Courtney ; Esquerdo, Gilbert ; Harre, Jan-Vincent ; Howell, Steve ; Jenkins, Jon ; Jensen, Eric ; Jones, Matias ; Jordan, Andres ; Latham, David ; Lund, Michael ; McCormac, James ; Nielsen, Louise ; Otegi, Jon ; Quinn, Samuel ; Radford, Don ; Ricker, George ; Schwarz, Richard ; Seager, Sara ; Smith, Alexis ; Stockdale, Chris ; Tan, Thiam-Guan ; Udry, Stephane ; Vanderspek, Roland ; Gunther, Maximilian ; Wang, Songhu ; Wingham, Geof ; Winn, Joshua ; “Spinning up a Daze: TESS Uncovers a Hot Jupiter orbiting the Rapid-Rotator TOI-778,” 2023, Astronomical Journal, 165, 207

135. Debes, John ; Nealon, Rebecca ; Alexander, Richard ; Weinberger, Alycia J. ; Wolff, Schuyler Grace ; Hines, Dean ; Kastner, Joel ; Jang-Condell, Hannah ; Pinte, Christophe ; Plavchan, Peter ; Pueyo, Laurent ; “The Surprising Evolution of the Shadow on the TW Hya Disk,” 2023, The Astrophysical Journal, 948, 36

134. Deeg, H. J. ; Georgieva, I. Y. ; Nowak, G. ; Persson, C. M. ; Cale, B. L. ; Murgas, F. ; Pallé, E. ; Godoy-Rivera, D. ; Dai, F. ; Ciardi, D. R. ; Murphy, J. M. Akana ; Beck, P. G. ; Burke, C. J. ; Cabrera, J. ; Carleo, I. ; Cochran, W. D. ; Collins, K. A. ; Csizmadia, Sz. ; El Mufti, M. ; Fridlund, M. ; Fukui, A. ; Gandolfi, D. ; García, R. A. ; Guenther, E. W. ; Guerra, P. ; Grziwa, S. ; Isaacson, H. ; Isogai, K. ; Jenkins, J. M. ; Kábath, P. ; Korth, J. ; Lam, K. W. F. ; Latham, D. W. ; Luque, R. ; Lund, M. B. ; Livingston, J. H. ; Mathis, S. ; Mathur, S. ; Narita, N. ; Orell-Miquel, J. ; Osborne, H. L. M. ; Parviainen, H. ; Plavchan, P. P. ; Redfield, S. ; Rodriguez, D. R. ; Schwarz, R. P. ; Seager, S. ; Smith, A. M. S. ; Van Eylen, V. ; Van Zandt, J. ; Winn, J. N. ; Ziegler, C. ; “TOI-1416: A System with a super-Earth planet with a 1.07 d period,” 2023, Astronomy & Astrophysics, 677 A12

**133. El Mufti, Mohammed ; Plavchan, Peter P. ; Isaacson, Howard ; Cale, Bryson L. ; Feliz, Dax L. ; Reefe, Michael A. ; Hellier, Coel ; Stassun, Keivan ; Eastman, Jason ; Polanski, Alex ; Crossfield, Ian J. M. ; Gaidos, Eric ; Kostov, Veselin ; Wittrock, Justin M. ; Villaseñor, Joel ; Schlieder, Joshua E. ; Bouma, Luke G. ; Collins, Kevin I. ; Zohrabi, Farzaneh ; Lee, Rena A. ; Sohani, Ahmad ; Berberian, John ; Vermilion, David ; Newman, Patrick ; Geneser, Claire ; Tanner, Angelle ; Batalha, Natalie M. ; Dressing, Courtney ; Fulton, Benjamin ; Howard, Andrew W. ; Huber, Daniel ; Kane, Stephen R. ; Petigura, Erik A. ; Robertson, Paul ; Roy, Arpita ; Weiss, Lauren M. ; Behmard, Aida ; Beard, Corey ; Chontos, Ashley ; Dai, Fei ; Dalba, Paul A. ; Fetherolf, Tara ; Giacalone, Steven ; Hill, Michelle L. ; Hirsch, Lea A. ; Holcomb, Rae ; Lubin, Jack ; Mayo, Andrew ; Močnik, Teo ; Akana Murphy, Joseph M. ; Rosenthal, Lee J. ; Rubenzahl, Ryan A. ; Scarsdale, Nicholas ; Stockdale, Christopher ; Collins, Karen ; Cloutier, Ryan ; Relles, Howard ; Tan, Thiam-Guan ; Scott, Nicholas J. ; Hartman, Zach ; Matthews, Elisabeth ; Ciardi, David R. ; Gonzales, Erica ; Matson, Rachel A. ; Beichman, Charles ; Bieryla, Allyson ; Furlan, E. ; Gnilka, Crystal L. ; Howell, Steve B. ; Ziegler, Carl ; Briceño, César ; Law, Nicholas ; Mann, Andrew W. ; Rabus, Markus ; Johnson, Marshall C. ; Christiansen, Jessie ; Kreidberg, Laura ; Berardo, David Anthony ; Deming, Drake ; Gorjian, Varoujan ; Morales, Farisa Y. ; Benneke, Björn ; Dragomir, Diana ; Wittenmyer, Robert A. ; Ballard, Sarah ; Bowler, Brendan P. ; Horner, Jonathan ; Kielkopf, John ; Liu, Huigen ; Shporer, Avi ; Tinney, C. G. ; Zhang, Hui ; Wright, Duncan J. ; Addison, Brett C. ; Mengel, Matthew W. ; Okumura, Jack; “TOI 560: Two Transiting Planets Orbiting a K Dwarf Validated with iSHELL, PFS, and HIRES RVs,” 2023, Astronomical Journal, 165, 10**

132. Hawthorn, Faith ; Bayliss, Daniel ; Wilson, Thomas G. ; Bonfanti, Andrea ; Adibekyan, Vardan ; Alibert, Yann ; Sousa, Sérgio G. ; Collins, Karen A. ; Bryant, Edward M. ; Osborn, Ares ; Armstrong, David J. ; Abe, Lyu ; Acton, Jack S. ; Addison, Brett C. ; Agabi, Karim ; Alonso, Roi ; Alves, Douglas R. ; Anglada-Escudé, Guillem ; Bárczy, Tamas ; Barclay, Thomas ; Barrado, David ; Barros, Susana C. C. ; Baumjohann, Wolfgang ; Bendjoya, Philippe ; Benz, Willy ; Bieryla, Allyson ; Bonfils, Xavier ; Bouchy, François ; Brandeker, Alexis ; Broeg, Christopher ; Brown, David J. A. ; Burleigh, Matthew R. ; Buttu, Marco ; Cabrera, Juan ; Caldwell, Douglas A. ; Casewell, Sarah L. ; Charbonneau, David ; Charnoz, Sébastian ; Cloutier, Ryan ; Collier Cameron, Andrew ; Collins, Kevin I. ; Conti, Dennis M. ; Crouzet, Nicolas ; Czismadia, Szilárd ; Davies, Melvyn B. ; Deleuil, Magali ; Delgado-Mena, Elisa ; Delrez, Laetitia ; Demangeon, Olivier D. S. ; Demory, Brice-Olivier ; Dransfield, Georgina ; Dumusque, Xavier ; Egger, Jo Ann ; Ehrenreich, David ; Eigmüller, Philipp ; Erickson, Anders ; Essack, Zahra ; Fortier, Andrea ; Fossati, Luca ; Fridlund, Malcolm ; Günther, Maximilian N. ; Güdel, Manuel ; Gandolfi, Davide ; Gillard, Harvey ; Gillon, Michaël ; Gnilka, Crystal ; Goad, Michael R. ; Goeke, Robert F. ; Guillot, Tristan ; Hadjigeorghiou, Andreas ; Hellier, Coel ; Henderson, Beth A. ; Heng, Kevin ; Hooton, Matthew J. ; Horne, Keith ; Howell, Steve B. ; Hoyer, Sergio ; Irwin, Jonathan M. ; Jenkins, James S. ; Jenkins, Jon M. ; Jensen, Eric L. N. ; Kane, Stephen R. ; Kendall, Alicia ; Kielkopf, John F. ; Kiss, Laszlo L. ; Lacedelli, Gaia ; Laskar, Jacques ; Latham, David W. ; Lecavalier des Etangs, Alain ; Leleu, Adrien ; Lendl, Monika ; Lillo-Box, Jorge ; Lovis, Christophe ; Mékarnia, Djamel ; Massey, Bob ; Masters, Tamzin ; Maxted, Pierre F. L. ; Nascimbeni, Valerio ; Nielsen, Louise D. ; O'Brien, Sean M. ; Olofsson, Göran ; Osborn, Hugh P. ; Pagano, Isabella ; Pallé, Enric ; Persson, Carina M. ; Piotto, Giampaolo ; Plavchan, Peter ; Pollacco, Don ; Queloz, Didier ; Ragazzoni, Roberto ; Rauer, Heike ; Ribas, Ignasi ; Ricker, George ; Ségransan, Damien ; Salmon, Sébastien ; Santerne, Alexandre ; Santos, Nuno C. ; Scandariato, Gaetano ; Schmider, François-Xavier ; Schwarz, Richard P. ; Seager, Sara ; Shporer, Avi ; Simon, Attila E. ; Smith, Alexis M. S. ; Srdoc, Gregor ; Steller, Manfred ; Suarez, Olga ; Szabó, Gyula M. ; Teske, Johanna ; Thomas, Nicolas ; Tilbrook, Rosanna H. ; Triaud, Amaury H. M. J. ; Udry, Stéphane ; Van Grootel, Valérie ; Walton, Nicholas ; Wang, Sharon X. ; Wheatley, Peter J. ; Winn, Joshua N. ; Wittenmyer, Robert A. ; Zhang, Hui; “TOI-836: A super-Earth and mini-Neptune transiting a nearby K-dwarf,” 2023, Monthly Notices of the Royal Astronomical Society, 520, 3649

131. de Leon, J. P. ; Livingston, J. H. ; Jenkins, J. S. ; Vines, J. I. ; Wittenmyer, R. A. ; Clark, J. T. ; Winn, J. I. M. ; Addison, B. ; Ballard, S. ; Bayliss, D. ; Beichman, C. ; Benneke, B. ; Berardo, D. A. ; Bowler, B. P. ; Brown, T. ; Bryant, E. M. ; Christiansen, J. ; Ciardi, D. ; Collins, K. A. ; Collins, K. I. ; Crossfield, I. ; Deming, D. ; Dragomir, D. ; Dressing, C. D. ; Fukui, A. ; Gan, T. ; Giacalone, S. ; Gill, S. ; Gorjian, V. ; González Alvarez, E. ; Hesse, K. ; Horner, J. ; Howell, S. B. ; Jenkins, J. M. ; Kane, S. R. ; Kendall, A. ; Kielkopf, J. F. ; Kreidberg, L. ; Latham, D. W. ; Liu, H. ; Lund, M. B. ; Matson, R. ; Matthews, E. ; Mengel, M. W. ; Morales, F. ; Mori, M. ; Narita, N. ; Nishiumi, T. ; Okumura, J. ; Plavchan, P. ; Quinn, S. ; Rabus, M. ; Ricker, G. ; Rudat, A. ; Schlieder, J. ; Schwarz, R. P. ; Seager, S. ; Shporer, A. ; Smith, A. M. S. ; Stassun, K. ; Tamura, M. ; Tan, T. G. ; Tinney, C. ; Vanderspek, R. ; Werner, M. W. ; West, R. G. ; Wright, D. ; Zhang, H. ; Zhou, G. ; “A Sub-Neptune transiting the young field star HD 18599 at 40 pc,” 2023, Monthly Notices of the Royal Astronomical Society,” 522, 750

130. Lawson, Kellen ; Schlieder, Joshua E. ; Leisenring, Jarron M. ; Bogat, Ell ; Beichman, Charles A. ; Bryden, Geoffrey ; Gáspár, András ; Groff, Tyler D. ; McElwain, Michael W. ; Meyer, Michael R. ; Barclay, Thomas ; Calissendorff, Per ; De Furio, Matthew ; Ygouf, Marie ; Boccaletti, Anthony ; Greene, Thomas P. ; Krist, John ; Plavchan, Peter ; Rieke, Marcia J. ; Roellig, Thomas L. ; Stansberry, John ; Wisniewski, John P. ; Young, Erick T. ; “JWST/NIRCam Coronagraphy of the Young Planet-hosting Debris Disk AU Microscopii,” 2023, The Astronomical Journal, 166, 150

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**Non-Refereed Publication Statistics**

**Non-refereed publications:** 53

**Non-refereed citations:** 466 all, 105 first author

**bold** – 15 non-refereed first author; **blue** – 6 non-refereed student led paper/second author; red – mentored student author

**Non-Refereed Publications – 53**

**2023:**

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**Invited Talks - 83**

83. “Our Modern Understanding of the Universe,” Jewish Family and Children’s

Services, Arizona, invited, virtual 2023/12/06

82. “The Search for Life Beyond Earth,” Profs and Pints, invited 2023/11/19

81. “How to Find Earth 2.0,” Galileo Science Café, George Mason University

Sci-Tech campus, invited 2023/11/16

80. “How to Find Earth 2.0,” Thankful for Science, George Mason University

Invited, 2023/11/13

79. “Near-infrared radial velocity follow-up of TESS candidates and AU Mic,

planning for Habitable Worlds Observatory, and the friends I made

along the way,” Carnegie DTM, science seminar, invited in person 2023/09/22

78. “BISTU Presentation,” Beijing Information Science and Technology

University, virtual, invited 2023/09/18

77. “The Landolt Mission,” 242nd American Astronomical Society meeting,

Invited, Splinter Session on Hybrid Observatories 2023/06/07

76. “How to Find Earth 2.0,” Cape Cod Astronomical Society, invited 2023/06/01

75. “The New Wild West Frontier: Opportunities and Risks of the Private Space

Industry Revolution,” Westminster Astronomical Society, Inc, invited 2023/04/12

74. “How to Find Earth 2.0,” San Juan school astronomy club, invited, virtual 2022/11/30

73. “The New Wild West Frontier: Opportunities and Risks of the Private Space

Industry Revolution,” Encore Learning, invited, virtual 2022/11/17

72. “How to Find Earth 2.0,” Thankful for Science, George Mason University

Invited, 2022/11/15

71. “The New Wild West Frontier: Opportunities and Risks of the Private Space

Industry Revolution,” Stranger than Fiction event, George

Mason University, invited 2022/10/22

70. “The Landolt Mission,” NASA Goddard Pioneers Fair, invited, virtual 2022/10/18

69. “iSHELL TESS Follow-Up,” TESS Science Team Meeting, invited, virtual 2022/10/13

68. “A Newborn Exoplanet,” invited, University of Cambridge, KICC Summer

Series, virtual 2022/08/25

67. “How to Find Earth 2.0,” Bangladesh, invited, virtual 2022/02/03

66. “How to Find Earth 2.0,” invited, San Jose Amateur Astronomy Society,

Virtual, 2022/04/09

65. “The Golden Age of Exoplanet Discovery,” Westminster, MD Astronomy

Club, Invited, virtual 2021/03/10

64. “Advantages of RVs from Space,” invited, NASA Exoplanet Scientist

Institute Sagan Summer Workshop: Extreme Precision

Radial Velocity 2020/07/22

63. “EarthFinder,” invited, National Academies Electromagnetic Observations

Gtom Space 1 Panel 2020/01/27

62. “Newly Formed Planets within the Debris Disk of a Nearby Pre-main

Sequence Star,” invited, University of Louisville department

seminar 2019/11/22

61. “What do we need for EPRV?” invited, NASA Exoplanet Science Strategy:

Extreme Precise Radial Velocity Initiative Working Group

Face to Face Meeting, St Louis 2019/06/13

60. “The Golden Age of Exoplanet Discovery,” invited, Evening Under the Stars,

George Mason University 2019/04/29

59. “EarthFinder: A NASA-selected Probe Mission Concept Study for input to

The 2020 Astrophysics Decadal,” invited, Space

Astrophysics Landscape of the 2020s 2019/04/02

58. “EarthFinder: A NASA-selected Probe Mission Concept Study for input to

The 2020 Astrophysics Decadal,” NASA ExoPAG meeting 2019/01/06

57. “Freshman Retention Juncture,” invited, SciSTEPS team meeting, Vanderbilt 2018/12/13

56. “Simulating Precursor Radial Velocity Surveys for HabEx,” invited, HabEx

Mission STDT Face-to-Face meeting 2018/10/18

55. “Community College to 4 Year Juncture,” invited, SciSTEPS team meeting,

Vanderbilt 2018/08/16

54. “EarthFinder: A NASA-selected Probe Mission Concept Study for input to

The 2020 Astrophysics Decadal,” invited, Sagan Summer

Workshop, Pasadena, CA 2018/07/27

53. “Exoplanet Research at George Mason University,” invited,

Chesapeake Bay Area Exoplanet Meeting 2018/09/07

52. “The Promise of Precise Radial Velocity Surveys for Exoplanets”, invited,

Subaru Telescope, NAOJ, Hilo, HI 2018/07/20

51. “The Promise of Precise Radial Velocity Surveys for Exoplanets”, invited,

US Naval Observatory 2018/05/10

50. “Tools for Hunting Exoplanets,” invited, Science on the Hill

Congressional Talk Series 2018/04/19

49. “The Promise of Precise Radial Velocity Surveys for Exoplanets”, invited,

Space Telescope Science Institute Seminar 2018/04/13

48. “The Promise of Precise Radial Velocity Surveys for Exoplanets”, invited,

Carnegie DTM Seminar 2018/03/01

47. “The Promise of Precise Radial Velocity Surveys for Exoplanets”, invited,

NASA Goddard Exoplanets Seminar 2018/02/06

46. “Conference Summary,” invited, Extreme Precise Radial Velocities III,

Penn State 2017/08/17

45. “Absorption Cells,” invited, Extreme Precise Radial Velocities III, Penn State 2017/08/14

44. “2017 Solar Eclipse,” invited, Rotary Club of Springfield North, Missouri 2017/05/16

43. “The Golden Age of Exoplanet Discovery,” invited, George Mason University

Physics & Astronomy Department Seminar 2017/03/27

42. “The Golden Age of Exoplanet Discovery,” invited, Kansas City

Astronomical Society, Missouri 2017/03/25

41. “The Golden Age of Exoplanet Discovery,” invited, College of Charleston

Physics & Astronomy Department Seminar 2017/02/21

40. “The Golden Age of Exoplanet Discovery,” invited, UT Dallas

Physics & Astronomy Department Seminar 2017/02/08

39. “The Golden Age of Exoplanet Discovery,” invited, St Louis Astronomical

Society, Missouri 2017/01/20

38. “Overview of Coming IR PRV Machines,” invited, NASA TESS mission

Science team meeting, MIT 2016/12/09

37. “Plans for Evaluating the Impact of Precursor RV Observations,” invited,

HabEx Science and Technology Definition Team Meeting,

New Haven, CT 2016/11/10

36. “The Golden Age of Exoplanet Discovery,” invited, The Library Center,

Armchair Lecture Series, Springfield, Missouri 2016/10/26

35. “The Golden Age of Exoplanet Discovery,” invited, Springfield Astronomical

Society, Missouri 2016/09/27

34. “Astrostatistics: The intersection of Astronomy and Math,” invited, MSU

Math Student Association 2016/09/26

33. “Bears In The Know Luncheon Series: Exoplanets,” invited, MSU 2016/09/22

32. “Approaching the Stellar Astrophysical Limits to Exoplanet Detection:

Getting to 10 cm/s,” invited, Aspen Center for Physics 2016/08/29

31. “The Promise of Multi-Wavelength Precise Radial Velocity Surveys for

Exoplanets,” invited, NASA Goddard, Maryland 2016/06/20

30. “The Promise of Multi-Wavelength Precise Radial Velocity Surveys for

Exoplanets,” invited, NASA JPL, Pasadena, CA 2016/05/19

29. “The Golden Age of Exoplanet Discovery,” invited, Astrobiology Symposium

University of Missouri, St Louis 2016/04/08

28. “Precise Radial Velocities and other Exoplanet Science Initiatives,” invited,

Truman State University Colloquium 2016/02/19

27. “Project NIRRVS: Precise Near Infrared Radial Velocity Surveys of Low-

Mass M Dwarfs,” invited colloquium, Penn State University 2015/11/16

26. “Finding Exoplanets with the Radial Velocity Method,” invited colloquium,

University of Missouri, Kansas City 2015/11/06

25. “The Golden Age of Exoplanets,” invited, CNAS Public Lecture Series,

Missouri State University 2015/10/13

24. “The Golden Age of Exoplanets,” invited, Ozark Maker Faire, Springfield,

MO 2015/08/29

23. “The Golden Age of Exoplanets,” invited Banquet keynote, Missouri Spacegrant

Consortium Annual Meeting 2015/04/24

22. “Precise Radial Velocities and other Exoplanet Science Initiatives,” Origins

Seminar, invited, University of Arizona 2015/03/19

21. “Precise Radial Velocities and other techniques for the detection of

exoplanets,” invited, University of Missouri, Columbia 2015/02/23

20. “Precise Radial Velocities and other techniques for the detection of

exoplanets,” invited, Missouri State University 2015/02/05

19. “NASA Exo-PAG Radial Velocity Study Analysis Group,” invited, Exo-PAG

11 2015/01/03

18. “Project NIRRVS: Precise Near-Infrared Radial Velocity Survey,” invited,

University of Missouri, St Louis 2014/11/07

17. “Project NIRRVS: Precise Near-Infrared Radial Velocity Survey,” invited,

Missouri State University 2014/04/15

16. “Project NIRRVS: Precise Near-Infrared Radial Velocity Survey,” invited,

Tel Aviv University, Israel 2014/03/19

15. “Investigation of Kepler Objects of Interest Stellar Parameters from Observed

Transit Durations,” invited, Tel Aviv University, Israel 2014/03/18

14. “Project NIRRVS: Precise Near-Infrared Radial Velocity Survey,” invited,

Weizmann Institute, Israel 2014/03/17

13. “NASA Exo-PAG Radial Velocity Study Analysis Group,” invited, Exo-PAG

9 2014/01/04

12. “NASA Exo-PAG Radial Velocity Study Analysis Group,” invited, Exo-PAG

8 2013/10/05

11. “NASA Exo-PAG Radial Velocity Study Analysis Group,” invited, Exo-PAG

7 2013/01/05

10. “Radial Velocity Surveys,” invited, How to Find Out Nearest Neighbors,

Lorentz Center Workshop, Leiden, Netherlands 2012/10/22

9. “NASA Exo-PAG Radial Velocity Study Analysis Group,” invited, Exo-PAG

6 2012/10/14

8. “NIRSPEC Upgrade Design Study,” invited, Keck Science Steering

Committee 2012/06/20

7. “The Quest for Exoplanets,” invited, Physics Colloquium, RIT 2012/05/31

6. “The Hunt for Exoplanets,” invited, Capital Area Amateur Astronomers,

Michigan 2012/05/02

5. “New Near-IR Techniques for Precision Radial Velocities,” invited,

Georgia State University colloquium 2011/11/29

4. “Exploiting the Variability of Young Stars,” invited, Greater IPAC Science

Symposium, Caltech 2010/05/11

3. “Young Stars in the Time Domain,” invited, Carnegie DTM 2010/04/30

2. “Detecting Transiting Planets – CoRoT and Systematic Sources of Error in

Time-Series Data,” invited, AY 218 Lecture, Caltech 2009/05/19

1. “Detecting Transiting Planets - Systematic Sources of Error in Time-Series

Data and Period-Finding Algorithms,” invited, Greater

IPAC Technology Symposium, Caltech 2009/05/14

**Contributed Talks - 61**

61. “Analytic relations assessing the impact of precursor knowledge and key

mission parameters on direct imaging survey yield,” contributed,

SEEC Symposium: Pathways to Characterizing Non-Transiting Planets 2024/04/18

60. “Detailed Simulations of RV Surveys of Nearby Stars Suitable for Direct

Imaging,” contributed, EPRV Research Coordination Network 2023/12/18

59. “How to Find Earth 2.0,” contributed, Evenings Under the Stars, GMU 2023/03/08

58. “Bias and Inclusion Training,” contributed Department Seminar, George

Mason 2020/09/18

57. “Newly Formed Planets within the Debris Disk of AU Mic,” contributed,

Exoplanets III 2020/07/31

56. “Newly Formed Planets within the Debris Disk of a Pre-main-sequence Star,”

contributed, Extreme Solar Systems IV, Reykjavik, Iceland 2019/08/19

55. “Precise Near-Infrared Radial Velocities with iSHELL,” contributed, Extreme

Precise Radial Velocities IV, Grindelwald, Switzerland 2019/03/20

54. “EarthFinder: A NASA-selected Probe Mission Concept Study for input to

the 2020 Astrophysics Decadal,” contributed, 233rd meeting

of the American Astronomical Society, Seattle, WA 2019/01/09

53. “EarthFinder: A Probe Mission Concept Study for the Precise Radial Velocity

Detection of Earth-Mass Exoplanets,” contributed, 42nd

COSPAR Scientific Assembly, Pasadena, CA 2019/07/14

52. “Precise Radial Velocities with iSHELL update,” contributed, NASA IRTF

Future Directions Workshop, Biodome II, AZ 2018/02/13

51. “EarthFinder,” contributed, Extreme Precise Radial Velocities III, Penn State 2017/08/16

50. “StarSIM 2.0,” contributed, Extreme Precise Radial Velocities III, Penn State 2017/08/16

49. “iSHELL,” contributed, Extreme Precise Radial Velocities III, Penn State 2017/08/15

48. “EarthFinder,” contributed, “Exoplanet Science with Small Telescopes:

Precise Radial Velocities Conference,” U Penn 2017/04/24

47. “MICRONERVA,” contributed, “Exoplanet Science with Small Telescopes:

Precise Radial Velocities Conference,” U Penn 2017/04/24

46. “Discovery of A Jovian Planet Candidate Around AU Mic,” contributed,

229th meeting of the American Astronomical Society,

Grapevine, TX 2017/01/06

45. “The Promise of Multi-Wavelength Precise Radial Velocity Surveys for

Exoplanets,” contributed, Caltech IPAC, Pasadena, CA 2016/06/08

44. “The Latest Results from Project NIRRVS: Precise Near Infrared Radial

Velocity Surveys,” contributed, 227th meeting of the

American Astronomical Society, Kissimmee, FL 2016/01/06

43. “Precise Near-Infrared Radial Velocities with CSHELL, iSHELL and

MINERVA-RED,” contributed, Pathways to Habitable

Exoplanets II, Bern, Switzerland 2015/07/15

42. “Precise Radial Velocities and other Exoplanet Science Initiatives,”

contributed, Mid-American Regional Astrophysics

Conference 2015/04/17

41. “Project NIRRVS: Precise Near-Infrared Radial Velocity Survey,”

contributed, Greater IPAC Science Symposium, Caltech 2014/03/27

40. “Precise Near-Infrared Radial Velocities,” contributed, 223rd Meeting of the

American Astronomical Society, Washington, DC 2014/01/09

39. “Investigation of Kepler Objects of Interest Stellar Parameters from Observed

Transit Durations,” contributed, Kepler Science Conference

2, NASA Ames, CA 2013/11/05

38. “Precision Near-Infrared Radial Velocity Instrumentation II: Non-circular

Core Fiber Scrambler,” SPIE, contributed, San Diego, CA 2013/08/27

37. “Precision Near-Infrared Radial Velocity Instrumentation and Exoplanet

Survey,” contributed, 221st Meeting of the American

Astronomical Society, Long Beach, CA 2013/01/07

36. “Precision Near-Infrared Radial Velocities,” contributed, JPL, Astrophysics

Science Fair 2012/11/19

35. “Near-Infrared Precision Radial Velocities Update,” contributed, Greater

IPAC Science Symposium, Caltech 2012/03/19

34. “Time Series Data Sets and Tools at the NASA Exoplanet Archive,”

contributed, Caltech Time Domain Forum 2012/02/09

33. “A Concept for an Extremely Large Telescope in Space,” contributed, JPL

CubeSat Symposium 2011/08/15

32. “Near-Infrared Radial Velocities,” contributed, Greater IPAC Science

Symposium, Caltech 2011/05/11

31. “Near-Infrared Radial Velocities,” contributed, Exploring Strange New

Worlds: From Giant Planets to Super Earths, Flagstaff, AZ 2011/05/06

30. “Young Stars in the Time Domain,” Space Telescope Science Institute, Star

and Planet Formation Journal Club 2010/12/13

29. “Near-Infrared Radial Velocities with NIRSPEC,” contributed, Keck Science

Meeting, UC Berkeley 2010/10/16

28. “The Future of Near-Infrared Radial Velocities,” JPL Exoplanet Program

Planning Retreat, Ventura, CA 2010/09/22

27. “M Dwarf Debris Disks,” contributed, Cool Stars 16, Seattle, WA 2010/08/29

26. “The Future of Near-Infrared Radial Velocities,” contributed, Astronomy of

Exoplanets with Precise Radial Velocities, Penn State, PA 2010/08/19

25. “Addinga LASERFrequencyCombto NIRSPEC,” Keck Science Meeting,

Caltech 2009/09/21

24. “New M Dwarf Debris Disks Discovered with the Spitzer Space Telescope,”

214th Meeting of the American Astronomical Society,

Pasadena, CA 2009/06/11

23. “New M Dwarf Debris Disks,” University of Arizona 2009/01/23

22. “New M Dwarf Debris Disks,” Greater IPAC Science Symposium, Caltech 2009/01/22

21. “MIPS Discovery of New M Dwarf Debris Disks,” Spitzer Science Fair, JPL 2008/10/21

20. “M Dwarf Disks,” Cool Stars 15, St Andrews, Scotland 2008/07/24

19. “Unveiling Disks Around M Dwarfs,” Stars and Brown Dwarfs Lunch Talk,

Caltech 2008/04/25

18. “Unveiling Disks Around M Dwarfs,” Exoplanet Science Seminar, JPL 2008/04/24

17. “The Peculiar Periodic YSO WL4 in Rho Ophiuchus,” Caltech-Carnegie

Postdoc Retreat 2008/04/14

16. “The Peculiar Periodic YSO WL4,” Disk Workshop, Caltech 2008/03/20

15. “The Peculiar Periodic YSO WL4,” Exoplanet Science And Technology Fair,

JPL 2008/02/22

14. “The Peculiar Periodic YSO WL4 in Rho Ophiuchus,” 211th Meeting of the

American Astronomical Society, Austin TX 2008/01/11

13. “Unveiling Disks Around M Dwarfs,” CfA Journal Club, Harvard 2007/10/03

12. “New Debris Disks Around Young Solar Analogs Discovered With The

Spitzer Space Telescope,” IAU Symposium No. 249,

Suzhou, China 2007/10/26

11. “Prospecting for Transits in 2MASS and Other Surveys,” NAOJ, Mitaka,

Japan 2007/10/15

10. “Prospecting for Transits in 2MASS and Other Surveys,” Michelson Science

Center Workshop, NASA Ames 2007/07/27

9. “New Spitzer Debris Disks Around Young Solar Analogs,” Spitzer Science

Fair, JPL 2007/05/22

8. “M Dwarf Planetary Systems,” Caltech-Carnegie Postdoc Retreat 2007/04/10

7. “M Dwarf Planetary Systems,” Monday Lunch Talks, JPL 2007/02/26

6. “M Dwarf Planetary Systems: A Transit Search with the 2MASS Calibration

Database,” 209th Meeting of the American Astronomical

Society, Seattle, WA 2007/01/10

5. “A Transit Search with the 2MASS Calibration Database,” IPAC Science

Seminar 2006/10/03

4. “Highlights from Protostars and Planets V,” Journal Club, UCLA 2005/11/29

3. “An M Dwarf Transit Search using the 2MASS Calibration Fields,” Solar,

Stellar and Planetary Sciences Seminar, CfA, Harvard 2005/11/21

2. “An Odyssey of Near-Infrared Variability: The 2MASS Calibration Fields,”

Journal Club, UCLA 2005/11/08

1. “See SPOT Run: The Spitzer Observation Planning Tool,” Journal Club, UCLA 2003/11/04

**Courses Taught**

**Bold** = New course I created, or major course redesign

George Mason University:

2024 Spring ASTR 111 The Solar System

2024 Spring ASTR 124 Introduction to Observational Astronomy

2024 Spring ASTR 620 Exoplanets

Cross-listed with ASTR 420

2024 Spring ASTR 420 Exoplanets

2023 Fall ASTR 602 Methods of Observational Astronomy

Cross-listed with ASTR 402

2023 Fall ASTR 402 Methods of Observational Astronomy

Senior Lab and Capstone Course

**2023 Spring ASTR 111 The Solar System**

2023 Spring ASTR 124 Introduction to Observational Astronomy

2022 Fall ASTR 602 Methods of Observational Astronomy

Cross-listed with ASTR 402

2022 Fall ASTR 402 Methods of Observational Astronomy

Senior Lab and Capstone Course

2022 Spring ASTR 124 Introduction to Observational Astronomy

2022 Spring ASTR 620 Exoplanets

Cross-listed with ASTR 420

2022 Spring ASTR 420 Exoplanets

2021 Fall Paternity Leave

2021 Spring ASTR 124 Introduction to Observational Astronomy

2020 Fall ASTR 602 Methods of Observational Astronomy

Cross-listed with ASTR 402

2020 Fall ASTR 402 Methods of Observational Astronomy

Senior Lab and Capstone Course

2020 Spring ASTR 620 Exoplanets

Cross-listed with ASTR 420

2020 Spring ASTR 420 Exoplanets

2020 Spring ASTR 124 Introduction to Observational Astronomy

2019 Fall ASTR 602 Methods of Observational Astronomy

Cross-listed with ASTR 402

2019 Fall PHYS 408 Senior Research

2019 Fall ASTR 402 Methods of Observational Astronomy

Senior Lab and Capstone Course

2019 Fall ASTR 112 Introductory Astronomy Lab: The Solar System

2019 Spring PHYS 796 Directed Reading and Research

2019 Spring PHYS 703 Department Seminar

2019 Spring PHYS 408 Senior Research

**2019 Spring ASTR 124 / ASTR 390 Introduction to Observational Astronomy**

2018 Fall PHYS 796 Directed Reading and Research

2018 Fall PHYS 703 Department Seminar

2018 Fall ASTR 602 Methods of Observational Astronomy

Cross-listed with ASTR 402

2018 Fall ASTR 402 Methods of Observational Astronomy

Senior Lab and Capstone Course

**2018 Spring ASTR 620 / ASTR 590 Exoplanets**

**2018 Spring ASTR 420 / ASTR 390 Exoplanets**

2018 Spring PHYS 408 Senior Research

2017 Fall PHYS 796 Directed Reading and Research

2017 Fall ASTR 602 Methods of Observational Astronomy

Cross-listed with ASTR 402

2017 Fall ASTR 402 Methods of Observational Astronomy

Senior Lab and Capstone Course

2017 Fall ASTR 112 Introductory Astronomy Lab: The Solar System

Missouri State University:

**2017 Spring AST 698 Astronomy Seminar**

**2017 Spring AST 398 Astronomy Seminar**

2017 Spring PHY 386/486 Senior Thesis Research

2017 Spring AST 113 (2 lectures) Modern Astronomy

**2016 Fall AST 613 Exoplanets**

2016 Fall PHY 386/486 Senior Thesis Research

**2016 Fall AST 112 Life in the Universe**

2016 Spring PHY 386/486 Senior Thesis Research

2016 Spring AST 115H Basic Astronomy

2016 Spring AST 113 Modern Astronomy

2015 Fall PHY 386/486 Senior Thesis Research

2015 Fall AST 311 Astronomical Techniques

2015 Fall AST 113 Modern Astronomy

2015 Spring PHY 386/486 Senior Thesis Research

2015 Spring AST 114 Survey of Astronomy

2014 Fall PHY 386 Senior Thesis Research

2014 Fall AST 114 Survey of Astronomy

Cerritos College:

2014 Spring ASTR 102 (3 lectures) Stars and Galaxies

UCLA:

2010 Summer ASTR 5 Life in the Universe

2010 Spring ASTR 4 Black Holes and Cosmic Catastrophes

University of Judaism (now known as American Jewish University):

2006 Spring NSC 180 Elementary Astronomy

2004 Fall NSC 180 Elementary Astronomy