



# JASON THOMAS WRIGHT—CV

## Positions and Research experience

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- Associate Professor**, Penn State University July 2015 – present
- Associate Department Head for Diversity and Equity** August 2017–August 2018  
Astronomy & Astrophysics, Penn State University
- Visiting Associate Professor**, University of California, Berkeley June 2016 – June 2017
- Assistant Professor**, Penn State University Aug. 2009 – June 2015
- Research Associate**, Cornell University Dec. 2007 – Aug. 2009
- Detecting Planets with TEDI, a near-IR Doppler instrument at Palomar.  
Collaborators: James P. Lloyd, Jerry Edelman, Matthew Muterspaugh, Philip Muirhead
  - Characterizing the new benchmark Galactic cluster Ruprecht 147.  
Collaborators: Angie Wolfgang, John Asher Johnson
  - Double-blind study to test SIM’s Capability for Planet Detection Through Simulations  
Collaborators: Matthew Muterspaugh, Andrew Howard, Martin Sirk, Sam Halverston
  - Multiple-planet systems and long-period planets  
Collaborators: The California Planet Search, Eric Ford, Greg Henry
  - Ages and activity levels of old field stars
- Postdoctoral Researcher**, UC Berkeley 2006 – 2007
- Multiple-planet systems and long-period planets  
Collaborators: The California Planet Search
- Graduate Research Assistant**, UC Berkeley 2000 – 2006
- A catalog and analysis of stellar magnetic activity in old, late-type stars and
  - The detection and cataloging of nearby exoplanets with precise radial velocities  
Collaborators: Steven Vogt, Debra Fischer, Paul Butler, John Asher Johnson
- Undergraduate Researcher, Boston University** 1995 – 1999
- Measuring Magnetic Fields using Polarization by Dust Grains in a Bok Globule  
Adviser: Dan Clemens
- Research Intern, *Computing Our Universe* Summer School, U. Mass.** Summer 1998  
Adviser: David Weinberg, OSU
- Research Intern, Smithsonian Astrophysical Observatory** Summer 1997  
Adviser: Patrick Slane

**Professional activities**

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Project Scientist, NEID

Science Advisory Committee, *Breakthrough Listen*

Alternate Representative for Penn State, AURA (2018–)

Maintainer, *Exoplanet Orbit Database*, [exoplanets.org](http://exoplanets.org)

Maintainer, exoplanet statistics for NASA *ViewSpace* planetarium presentation

American Astronomical Society Session Chair (Winter 2012, Winter 2018)

American Astronomical Society Task Force on Meetings (2015)

American Astronomical Society Agent (Penn State, 2013–)

American Astronomical Society Committee for Sexual-Orientation and Gender Minorities in Astronomy (2017–)

American Institute of Physics panel on GRE Physics test preparation strategies (November 7, 2013)

Referee:

- *The Astrophysical Journal*
- *The Astrophysical Journal Letters*
- *Monthly Notices of the Royal Astronomical Society*
- *Astronomy and Astrophysics*
- *International Journal of Astrobiology*
- *Publications of the National Academy of Science*
- *Publications of the Astronomical Society of Japan*
- *Nature*

Proposal Reviewer:

- Austrian Science Fund
- *Kepler* Participating Scientist Program
- NSF Astrophysics Review Panel (as Internal and External Reviewer)
- NASA Origins of Solar Systems (External Reviewer)

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## Professional activities (proposal reviewer, continued)

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- NASA ADAP
- NASA Exoplanet Exploration Program
- NOAO Solar System TAC (2010-2012, 5 semester tenure, plus 1 special TAC)
- NASA Hubble Fellowship Program
- Hobby-Eberly Time Allocation for Penn State
- European Research Council Advanced Grant Program (2012)
- European OPTICON 2–4 metre Time Allocation Review (2013, 2014)
- Leverhulme Trust
- National Science Center (Poland)

### Member:

American Astronomical Society  
American Institute of Physics  
International Academy of Astronautics (SETI Permanent Committee)  
User Committee for NStED database by NExSci (2009–2011)  
SDSS III-MARVELS (External collaborator 2010–2012)  
Penn State Astrobiology Research Center (an erstwhile NASA Astrobiology Institute node)  
Center for Exoplanets and Habitable Worlds

Chair, Local Organizing Committee, *Workshop on Astronomy of Exoplanets with Precise Radial Velocities*, University Park, PA, Aug. 16–20, 2010

Science Organizing Committee, *Second Workshop on Measuring Precise Radial Velocities*, New Haven, CT, July 6–8, 2015

Science Organizing Committee, *OHP-2015: Twenty Years of Giant Exoplanets*, Observatoire de Haute-Provence, France, Oct 5–9, 2015

Co-organizer, Aspen Summer Physics Workshop, *Approaching the Stellar Astrophysical Limits of Exoplanet Detection: Getting to 10 cm/s* August 28–September 18, 2016

Chair of conference and Science Organizing Committee of the *Third Workshop on Extremely Precise Radial Velocites*, State College, PA, Aug 14-17, 2017

Chair, Science Organizing Committee, *NASA Technosignatures Workshop*, Houston, TX, September 26–28, 2018

**Professional activities (continued)**

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Successfully nominated Dr. Claire Max for the American Astronomical Society Weber Prize.

Successfully nominated Dr. Franklin Kameny for recognition by the American Astronomical Society in its 2012 meeting.

Successfully nominated Dr. John Johnson for the American Astronomical Society Newton Lacy Pierce Prize in Astronomy

**Teaching**

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**Graduate Student Instructor:**

1999-2003

- Introduction to Astronomy: 4 semesters (Survey course for non-majors)
- Introduction to Astrophysics: 1 semester (Survey course for astrophysics majors)
- Astronomy Optical Laboratory: 1 semester (Junior/Senior astrophysics majors)
- The Art of Teaching Astronomy: (Course for first-time Graduate Student Instructors, covering basic teaching methods and lessons from astronomy education research; assistant instructor 1 semester; head instructor 1 semester)

**Professor:**

- ASTRO 589: The Science of Exoplanets (Graduate seminar, Fall 2009)
- ASTRO 530: Stellar Atmospheres (Graduate course, Spring 2010, 2012, 2014, 2016)
- ASTRO 534: Stellar Structure and Evolution (Graduate course, Spring 2015)
- ASTRO 001: Astronomical Universe (Undergraduate course, Spring 2011, 2013)
- ASTRO 020S: First Year Seminar (Undergraduate course, Fall 2011–2015)
- SC 200: Science in Our World: Certainty and Controversy (Undergraduate non-major course, Fall 2017–8)
- GRE Physics “Boot Camp” (Special course, Fall 2010, 2012–2014)

**Education and Public Outreach**

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**Public Lectures and Panels:**

Student Research Opportunities Program panelist on getting into graduate school, University Park, PA, July 23 & 24, 2018

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## Education and Public Outreach (Public lectures and panels, continued)

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*Is Anybody Out There? A Short History of Trying to Get Attention*; Astronomy on Tap, Happy Valley Brewing Company, State College, PA, July 23, 2018

*Searching for Alien Megastructures: Hype vs. Reality*; Astronomy on Tap, Happy Valley Brewing Company, State College, PA, July 24, 2017

*Searching for Alien Megastructures: Hype vs. Reality*; Science Pub, Big Spring Spirits, Bellefonte, PA, July 5, 2017

*The Most Mysterious Star in the Galaxy*, CarbonEarthWorkshop. State College, PA, October 29, 2016

*New Frontiers in Artifact SETI: Waste Heat, Alien Megastructures, and "Tabby's Star"* Astronomy Club, Penn State, October 16, 2016

*Frontiers in Artifact SETI: Waste Heat, Alien Megastructures & Tabby's Star*; SETI Talk, SETI Institute Colloquium, Mountain View, CA, Aug. 9, 2016

*Are We Alone in the Universe?—Physics of Everything Lecture 5*, New York Academy of Sciences, June 13, 2016

*Alien Megastructures: Hype vs. Reality*; Adler After Dark presentations Jan. 21, 2016

*Searching for Alien Megastructures: Hype vs. Reality*; Friedman Lecture, Dec. 1, 2015

*Using General Relativity to Discover Exoplanets*; Penn State Lecture on the Frontiers of Science, University Park, PA, Feb. 21, 2015

*A WISE Search for Large Extraterrestrial Civilizations: A Complementary Approach to Traditional SETI*; SETI Talk, SETI Institute Colloquium, Mountain View, CA, Nov. 12, 2013

*The Far-Flung Future of Energy in the Galaxy*; Discovery U, Penn State University, University Park, PA, Nov. 8, 2013

*The Science of Exoplanets*; Keynote Address, The 14th Annual UNL Astronomy Education Workshop, University of Nebraska, Lincoln, NE, Oct. 22, 2011

*Exoplanets Abound! The Search for (and Discovery of!) Planets Around Other Worlds*, Ruckman Lecture, University of Nebraska, Lincoln, NE, Oct. 21, 2011

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## Education and Public Outreach (Public lectures and panels, continued)

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*The Search for Exoplanets, Many Suns, Many Worlds: The Galactic Quest for Exoplanets*  
Invited Public Lecture, presented by the Keck Institute for Space Sciences, Pasadena, CA  
October 4, 2010.

### Other E/PO:

Breakthrough Discuss interview series	2018
Guest, KTVU Fox Morning News (Oakland, CA)	2017
Guest, “Kingkade & Breakenridge” Radio Show	2016
“Cool Worlds” vlog episode: “Tabby’s Star”	2016
Guest speaker, Astroonomy Teachers Workshop	2015
Organizer, <i>Marketing for Scientists</i> session by Marc Kuchner	2013
Guest speaker, Penn State Astronomy Club	2013
Westinghouse Science Honors Institute Saturday science lecturer	2013
Guest speaker (remote), Wittenberg Astronomy Club	2013
SETI Institute Google Hangout ( <a href="http://bit.ly/16FkjXo">http://bit.ly/16FkjXo</a> )	2013
Guest speaker, Berks Astronomy Club, Reading, PA	2012
Guest speaker, Central Pennsylvania Observers	2010
Conducted TA training in Learning Center methods for PSU Physics TAs	2010
Volunteer, Exploration Days, Bryce Jordan Center, Penn State	2010
Guest speaker, Penn State Astronomy Club, University Park, PA	2009
Participant, “Using Technology & Authentic Investigations in Astro 101: A Tier II (Special Topics) Workshop”, Maui, HI	2009
Volunteer organizer for same, Berkeley, CA	2008
Project ASTRO visiting astronomer at Allendale Elementary, Oakland, CA Educator: January Anderson	2008
Co-founder of weekly Graduate Student / Postdoc Seminar, Cornell University	2008
Guest speaker, Mohawk Valley Astronomical Society, Utica, NY	2008
Participant, “Improving the College Introductory Astronomy Survey Course for Non-Science Majors Through <i>Active Learning</i> : A Tier I (Introductory) Workshop”, Honolulu, HI,	2007

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## Web and social media:

- **exoplanets.org**

exoplanets.org hosts the Exoplanet Data Explorers and the Exoplanet Orbit Database. These resources are used by scientists, educators, and the general public regularly, and plots from exoplanets.org appear in talks, research proposals, and professional articles with increasing regularity. It is the basis of exoplanet metadata at <https://exo.mast.stsci.edu/>

- **AstroWright**

[The AstroWright website](#), blog, and related Facebook, Twitter (@Astro\_Wright), and Google+ accounts convey information about Wright group research and professional issues.

- **@Astro\_Wright**

The @Astro\_Wright Twitter account has over 5,800 followers as of August 2018, putting it in the top 100 of all astronomy accounts on Twitter.

Media accounts of research can be found on the AstroWright Press page at <http://sites.psu.edu/astrowright/press/>



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## Advising

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### Postdoctoral researchers

- Daniel Stevens, CEHW postdoctoral fellow 2018–
- Eva Bodman, NASA Postdoctoral Fellow 2017–  
• co-advisor; in residence at Arizona State University advised by Steve Desch
- Thomas Beatty, CEHW postdoctoral fellow 2014–2017  
• In 2017 became Assistant Research Professor at Penn State  
• Now a Research Associate at University of Arizona
- Fabienne Bastien, Hubble Fellow 2014–2017  
• Now Assistant Professor at Penn State
- Ming Zhao, CEHW postdoctoral fellow 2011–2014  
• Now a data scientist at the New York Times Company

### Graduate students

- Jason Curtis, graduate student, Penn State 2010–2016  
• Studies of the nearby open cluster Ruprecht 147  
• Now an NSF Postdoctoral Fellow at Columbia University
- Jackson Norris, graduate student, Penn State 2010–2011  
• Studies of the planet orbiting the hot subdwarf HD 149832
- Xuesong (Sharon) Wang, graduate student, Penn State 2010–2011  
• Instrumental Profile Modeling of the HRS on HET 2013–2016  
• Precise Doppler pipeline for HET  
• Effects of telluric lines on precise Doppler work  
• Now a DTM Fellow at the Carnegie Institute of Washington
- Sara Gettel, graduate student, Penn State (primary adviser: Alex Wolszczan) 2010–2012  
• Instrumental Profile Modeling of the HRS on HET  
• Raw reduction pipeline for HRS on HET  
• Instrumental profile modeling of HRS on HET  
• Precise Doppler velocities with HRS on HET  
• In 2012 became a postdoctoral researcher at Harvard-Smithsonian Center for Astrophysics

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## Advising (continued)

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### Graduate students (continued)

- Aprita Roy, graduate student Penn State 2011–2013
- Atmosphere and magma composition of the proto-moon
  - Line bisectors in Keck and HET radial velocity data (primary adviser: Suvrath Mahadevan)
  - Now a Milliken Fellow at Caltech
- Kimberly (Star) Cartier, graduate student, Penn State 2012–2017
- HST WFPC3 imaging of *Kepler* planet host stars (primary adviser: Ron Gilliland)
  - Artifact SETI with *Kepler*
  - HST WFPC3 and ground-based SED measurements of WASP-103 (primary adviser: Thomas Beatty)
  - Now a staff writer at *EOS*
- Benjamin Nelson, graduate student, PSU (primary adviser: Eric Ford) 2014–2015
- Dynamical studies of multiplanet systems
  - In 2015 became a CIERA Postdoctoral Fellow at Northwestern University
- Jacob Luhn, graduate student, Penn State (primary adviser: Fabienne Bastien) 2016–
- Photometric Flicker and radial velocity jitter as functions of wavelength
- Jiyu (Leo) Liu, graduate student, PSU 2016–
- Precise infrared photometry for exoplanet characterization
- Alan Reyes, graduate student, PSU 2017–
- SETI
  - RV characterization of *Kepler* multiplanet systems
- Sofia Sheikh, graduate student, PSU 2017–
- SETI
- Noah Tuchow, graduate student, PSU 2018–
- Stellar Models and the Faint Young Sun Paradox
- Arvind Gupta, graduate student, PSU 2018–
- NEID target selection and spectral contamination

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## Advising (continued)

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### Undergraduate students and post-baccalaureate researchers

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| Angie Wolfgang, undergraduate physics major, Cornell University  | 2008–2009 |
| <ul style="list-style-type: none"><li>• Determined membership in the new benchmark cluster Ruprecht 147</li><li>• Went on to graduate study in astronomy at UC Santa Cruz</li><li>• Now an NSF Postdoctoral Fellow at Penn State</li></ul> |           |
| Eunkyu Han, undergraduate astronomy major, Penn State  | 2010–2012 |
| post-baccalaureate researcher  | 2012–2013 |
| <ul style="list-style-type: none"><li>• Maintaining and expanding the Exoplanet Orbit Database</li><li>• Went on to graduate study in astronomy at Boston University</li></ul>   |           |
| Ying (Katherina) Feng, undergraduate astronomy major, Penn State   | 2010–2013 |
| <ul style="list-style-type: none"><li>• Maintaining and expanding Exoplanet Orbit Database</li><li>• RV detection and characterization of Jupiter Analogs</li><li>• Went on to graduate study in astronomy at UC Santa Cruz</li></ul>      |           |
| Roger Griffith, post-baccalaureate researcher  | 2012–2014 |
| <ul style="list-style-type: none"><li>• SETI from red, extended sources in the <i>WISE</i> catalog</li></ul>   |           |
| Colin Hancock, undergraduate astronomy major, Penn State   | 2014–2015 |
| <ul style="list-style-type: none"><li>• Maintaining and expanding the Exoplanet Orbit Database</li></ul>   |           |
| Jacob Brown, undergraduate astronomy major, Penn State   | 2014–2017 |
| <ul style="list-style-type: none"><li>• Maintaining and expanding the Exoplanet Orbit Database</li></ul>   |           |
| McLeod Brenneman, undergraduate astronomy major, Penn State  | 2014–2015 |
| <ul style="list-style-type: none"><li>• Maintaining and expanding the Exoplanet Orbit Database</li></ul>   |           |
| Shivani Shah, undergraduate astronomy major, Penn State  | 2015–2018 |
| <ul style="list-style-type: none"><li>• Maintaining and expanding the Exoplanet Orbit Database</li><li>• Grand magnetic minima in sunlike stars</li><li>• Now a graduate student at the University of Florida</li></ul>                    |           |
| Isaiah Holt, undergraduate astronomy major, Penn State   | 2018–     |
| <ul style="list-style-type: none"><li>• Observation planning for NEID</li></ul>  |           |

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## Academic advising

- Brian Botzer (undergraduate) 2009-2013
- Jason Curtis (graduate student) 2009-2016
- Edward Hackett (undergraduate) 2010-2011
- Jamie VanderHeiden (undergraduate) 2011-2014
- Jessica Bebee (undergraduate) 2011-2015
- Gregory Glauser (undergraduate) 2012-2016
- Alexander Kang (undergraduate) 2012-2016
- Anudeep Boddhu (undergraduate) 2013–2014
- Alexander Zerphy (undergraduate) 2013–
- Gregory Romine (graduate) 2013–2016
- Yosuke Ohta (undergraduate) 2013–2014
- Megan McLaurin (undergraduate) 2013–2016
- Shubham Kanodia (graduate) 2017–
- Neha Khandelwal (undergraduate) 2017–
- Jamie Roller (undergraduate) 2017–
- Zachary Specht (undergraduate) 2017–
- Arvind Gupta (graduate) 2018–
- Salem Alsuwaidi (undergraduate) 2018–
- David Onest (undergraduate) 2018–

## Grants awarded as PI

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“SIM Double-blind Planet Finding Simulation -- Phase 2”, JPL, \$28,507, 12/17/2008 - 9/27/2009. PIs: Jason T. Wright (Cornell), Andrew Howard (Berkeley)

“Multiple and long-period exoplanetary systems: the habitable zone, the ice line, and beyond.”, NASA Origins of Solar Systems, \$61,000. 1/1/2010-12/31/2010. PI: Jason T. Wright. Co-I's: Eric B. Ford, John Asher Johnson, Debra Fischer, Geoff Marcy.

JPL Research Support Agreement 2010A\_N147Hr (associated with Keck observing time) \$15,750, 2/17/2010-2/16/2012.

JPL Research Support Agreement 2011A\_N141Hr (associated with Keck observing time) \$19,000, 2/17/2011-2/16/2013.

JPL Research Support Agreement 2011B\_N141Hr (associated with Keck observing time) \$16,800, 9/07/2011-9/01/2013.

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JPL Research Support Agreement 2012A\_N129Hr (associated with Keck observing time) \$17,200, 3/1/2012-3/1/2014.

JPL Research Support Agreement 2012B\_N144Hr (associated with Keck observing time) \$15,000, 9/1/2012-6/30/2014.

“Exoplanets with HET and Kepler: Multiplanet Systems Near and Far” NSF AAG: \$311,657 09/01/2012–08/31/2016. No co-I’s.

“Characterizing the Nearest Old Open Cluster: Ruprecht 147”, NSF AAG: \$107,182, 08/15/2012–08/14/2015. No co-I’s.

“Constraining the Abundance of Kardashev Type II and III Civilizations From Large Area Infrared Surveys”, New Frontiers in Astronomy and Cosmology Research Grant Program, \$300,000 10/1/2012–9/31/2014. Co-I’s: Steinn Sigurðsson, Matthew Povich

“Weighing the Smallest Exoplanets: Support for an Interdisciplinary Workshop”, National Science Foundation Astronomy and Astrophysics Grants, \$30,000, 06/01/2017–06/01/2018, no co-I’s.

“Weighing the Smallest Exoplanets: Support for an Interdisciplinary Workshop”, NASA, \$10,000, 06/01/2017–05/31/2018, Co-I’s Eric Ford, Vladimir Airapetian, Dave Brain, Debra Fischer.

### **Grants awarded as administrative or supervising PI**

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“Giants Beyond the Warm Neptunes II: Verifying a Super-Jupiter outside a Four-Planet Kepler Resonant Chain with an Unprecedented Architecture” grant associated with the award of NASA Keck time, Science PI: Alan Reyes 6/25/2018–6/25/2020, \$13,575

"Phase-resolved Emission Spectroscopy of the Transiting Brown Dwarf KELT-1b using WFC3", grant associated with award of *Hubble Space Telescope* time, 11/1/2016-10/31/2019, \$154,590

“Precise H-K Color Measurements of the Daysides of Two Hot Jupiters”, grant associated with the award of NASA WIYN telescope time, Science PI: Thomas Beatty, 10/10/2016-10/10/2018, \$10,300

"Near-IR spectroscopy of the newly discovered benchmark hot Jupiter WASP-103b", Grant associated with award of *Hubble Space Telescope* time, (transfer of balance of grant from departed research associate)10/1/2016-9/30/2018, \$45,840

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“Contemporaneous K2 and WIYN/Hydra measurements of stellar rotation and magnetic activity of 3 Gyr Sunlike stars in Ruprecht 147” — Science PI: Jason Curtis. Grant associated with receipt of NN-EXPLORE WIYN time, 2/12/2016-1/1/2018. \$19,400

“A Spitzer Transit of the Most Inflated Planet Known, Around an Extremely Bright Sub-Giant Star” — Science PI: Thomas Beatty. Grant associated with receipt of *Spitzer* Space Telescope time, 03/15/2016-09/30/2017. \$10,000

“A New Method to Measure H-Ks Color of Daysides of Hot Jupiters” — grant associated with receipt of NASA WIYN time. 02/12/2016—01/01/2018. Science PI: Thomas Beatty. \$5,000

“K2 monitoring of known transiting planet phase curves and bright planet hosts” grant associated with receipt of K2 observations. Science PI: Thomas Beatty 02/05/2016–02/04/2017— \$14,000

“K2 survey of Ruprecht 147 — the oldest nearby star cluster” Science PI: Jason Curtis, grant associated with receipt of K2 large program 02/05/2016-02/04/2017 \$100,000

“Bridging the Gap between Stellar/Solar Astrophysics and Exoplanet Science as the Path to Finding Earth's Twins” ROSES-2015 Topical Workshops, Symposia, and Conferences NNH15ZDA001N \$10,008 08/01/2016–07/31/2017

“Study of Small and Cool Kepler Planet Candidates with High Resolution Imaging” *Hubble Space Telescope* Cycle 21, STScI, Science-PI Ronald Gilliland: \$157,873 11/1/2012–10/31/2015. Co-I's: David Ciardi, Elisabeth Adams, Natalie Batalha, William Borucki, Timothy Brown, David Charbonneau, Jean-Michel Desert, Andrea Dupree, Francois Fressin, Nick Gautier, Matthew Holman, Jon Jenkins, Paul Kalas, David Latham, Jack Lissauer, Geoffrey Marcy, Jason Rowe, Guillermo Torres

“Near-IR Spectroscopy of the Highly Inflated, Hottest Known Jupiter KOI-13.01” *Hubble Space Telescope* Cycle 21, STScI, Science-PI Ming Zhao: \$82,000 (\$51,889 to PSU) 10/1/2013–9/30/2014. Co-I's: Heather Knutson, Ronald Gilliland, Nikku Madhusudhan, Avi Shporer

“Extending Spitzer from the Ground: A Novel Technique for Probing Exoplanetary Atmospheres” NASA Origins of Solar Systems, Science-PI: Ming Zhao, \$374,094 1/1/2014–12/31/2016. Co-I's: Heather Knutson, Travis Barman, John Monnier,

“A New View on Stellar Activity and Variability: Opening New Planet Discovery Domains” STScI Hubble Fellowship for Fabienne Bastien, \$126,481/yr. 8/18/2014–8/17/2015, renewable for up to 3 years.

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“From Flicker to Jitter: Predicting Stellar Radial Variations from Photometric Variability” NASA XRP (Science PI: Fabienne Bastien) \$151,140, 9/1/2014–9/30/2017

“Phase Curve Observations of the Irradiated Transiting Brown Dwarf KELT-1*b*” Spitzer Cycle, JPL, Science-PI Thomas Beatty: \$10,000, 5/19/2015–9/30/2017

### Grants awarded as co-I

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“Developing Predictors of Radial Velocity Jitter from K2 Light Curves”, grant associated with the award of NASA K2 telescope time, 02/05/2018–12/10/2018, \$30,000, Administrative PI: Fabienne Bastien, Science PI: Jacob Luhn

“Towards Tranquil Terrestrial Worlds Orbiting Tiny, Turbulent Stars: Next-Generation Algorithms to Reveal Nearby ExoEarths Using Near-Infrared Doppler Spectroscopy”, Heising-Simons Foundation, 12/1/2017–11/30/2020, \$350,550, PI: Suvrath Mahadevan

“Kepler AutoRegressive Planet Search”, NASA, \$61,032, PI: Eric Feigelson

“Custom Spectrograph Room for MINERVA, a dedicated exoplanet observatory," Mt. Cuba Astronomical Foundation, Nonprofit Foundations. Total requested: \$122,894.00. (Funds were awarded directly to the Smithsonian Astrophysical Observatory)

“Advanced Statistics in the Search for Planets”, NSF, PI: Eric Feigelson, 10/1/2016-9/30/2019, \$357,027

“MRI: Acquisition of High Performance Hybrid Computing Cluster to Advance Cyber-enabled Science and Education at Penn State”, NSF, Science-PI: Yuexing Li, 10/1/2016-9/30/2019, \$920,688

“NEID: NN-EXPLORE Exoplanet Investigations with Doppler Spectroscopy” ROSES-2015-D.14 Extreme Precision Doppler Spectrometer Instrument, PI: Suvrath Mahadevan 04/15/2016–06/30/2019 \$9,695,894

AAS International Travel grant to attend IAU General Assembly (2015) \$1,750

“MRI: Development of the Habitable Zone Planet Finder Spectrograph for the Hobby-Eberly Telescope” NSF MRI, PI: Suvrath Mahadevan, \$3,339,364, 09/1/2011-08/31/2015. Co-I’s: Larry Ramsey, Michael Endl, Aleksander Wolszczan.

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“The Rocky Planet Survey” NASA Origins of Solar Systems, PI: Debra Fischer, PSU subaward from Yale University \$36,227, 05/1/2012–4/30/2014. No co-I’s on subaward.

“Chiron Planet Search,” NSF AAG PI: Debra Fischer, \$895,881, PSU subaward from Yale University \$17,416, 09/15/2011-08/31/2012. No co-I’s on subaward.

“XO Project: Discovery and Characterization of Transiting Extrasolar Planets” NASA Origins of Solar Systems, PI: Peter McCullough (2009), No PSU support

“Properties of Super Earths: Putting Rocky Planets on Solid Ground” NASA Origins of Solar Systems, PI: Geoffrey Marcy (2009), No PSU support

“A Close Look At Middle-Aged Coronae: The Nearby 2.5 Gyr Old Cluster Ruprecht 147” *Chandra X-ray Observatory* Cycle 13, Chandra X-ray Center, PI: Steve Saar, No PSU support

“Testing Star-Planet Interaction in Solar Analogs” *Chandra X-ray Observatory* Cycle 13, Chandra X-ray Center, PI: Brendan Miller, PSU subaward \$19,650. No co-I’s on subaward.



# JASON THOMAS WRIGHT—CV

## Fellowships and small grants and prizes awarded directly to supervised personnel

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Jason Curtis:

- NSF Astronomy and Astrophysics Postdoctoral Research Fellowship (to Columbia University)
- Chambliss Graduate Student Poster Medal — 2014
- NSF Graduate Research Fellowship
- Student registration support for “400 Years of Stellar Rotation” in Natal, Brazil, US\$108 — 2013
- Zaccheus Daniel Travel Grant (\$550) - July 2012
- Zaccheus Daniel Travel Grant (\$750) - July 2011
- Stephen. B Brumbach Graduate Fellowship (\$2000) - May 2011
- Zaccheus Daniel Travel Grant (\$650) - Aug. 2010
- Cool Stars 17 Travel Support - Funding provided by the NASA Astrobiology Institute (\$750) - May 2012

Sharon Wang:

- Carnegie DTM Postdoctoral Fellowship in Astronomy and Planetary Science
- CEHW Small Research Grant (\$1,000) — 2015
- Nasa Earth and Space Science Fellowship (\$30,000/yr, up to 3 years) – 2014
- Zaccheus Daniel Travel Grant (\$700) – 2013
- Downsborough Graduate Fellowship (\$2000) – 2013
- PSU Graduate Exhibition First Prize in Physical Sciences and Mathematics (\$500) — 2013
- Zaccheus Daniel Travel Grant (\$1000) – 2011
- Stephen B. Brumbach Fellowship (\$2000) – 2010

Jacob Luhn:

- Funds for Sagan Summer Workshop (\$1216) — 2016
- NSF Graduate Research Fellowship
- Best poster, 20th Cambridge Workshop on Cool Stellar Systems and the Sun

Kimberly (Star) Cartier:

- Chambliss Graduate Student Poster Medal — 2017
- CEHW Small Research Grant (\$988) – 2013

Ming Zhao:

- 3rd Prize, Postdoctoral Research Exhibition — 2013
- CEHW Small Research Grant (\$910) — 2013
- CEHW Small Research Grant (\$1150) — 2013
- AAS Small Research Grant (\$4470) — 2012
- AAS Small Research Grant (\$3640) — 2012

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## Grants and prizes awarded directly to supervised personnel (continued)

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Thomas Beatty:

- AAS Small Research Grant (\$3640) — 2012

Shivani Shah:

- Undergraduate Research Award (\$1000) — 2016

Leo (Jiyu) Liu:

- Zaccheus Daniel Travel Grant (\$1000) – 2017

## Invited appearances at conferences, schools, and symposia

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Artifact SETI as a Fruitful Complement to Communication SETI 42nd COSPAR Scientific Assembly, Pasadena, CA, July 20, 2018

Welcome and Valediction, Third Workshop on Precise Radial Velocities, University Park, PA, Aug 14–17, 2017

Panelist, 2017 Breakthrough Discuss conference, Stanford, CA

Twenty Years of Precise Radial Velocities at Keck and Lick Observatories Twenty Years of Giant Exoplanets, Observatoire de Haute-Provence, 4 October 2015

Magnetism and Activity of Planet-Hosting Stars invited review talk, Symposium 320: Magnetic Field Structure Dynamics and Flaring Regions, Talk 3.03, International Astronomical Union General Assembly, Honolulu, HI, August 2015

Exoplanets: Past, Present, and Future keynote presentation to the Central Pennsylvania Consortium Astronomers' Meeting, Dickinson College, April 25, 2015

The G-HAT Search for Extraterrestrial Civilizations, Progress Report talk, New Frontiers in Astronomy and Cosmology Progress Report, Chicago, IL, June 18, 2014

Constraining the Abundance of Kardashev Type II and III Civilizations From Large Area Infrared Surveys, award presentation, New Frontiers in Astronomy and Cosmology Awards Ceremony, Philadelphia, PA, October 13, 2012

Stellar Jitter, Workshop on the Astronomy of Exoplanets with Precise Radial Velocities, Penn State, University Park, August 2010

**Invited appearances at conferences, schools, and symposia (continued)**

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Observational Constraints on Theories of Planet Migration and Dynamical Evolution, solicited oral presentation, *Ishigaki International Conference on Evolving Planet Formation Theory*, Ishigaki, Okinawa Prefect, Japan, June 2010

Observational Constraints on Theories of Planet Migration and Dynamical Evolution, solicited oral presentation, *Exoplanets: Observation, Characterization, and Habitability*, EGU General Assembly, Vienna, Austria, May 2010

Planetary Systems in the Solar Neighborhood, invited oral presentation, *Putting the Solar System in Context: Origin, Dynamical and Physical Evolution of Multiple Planet Systems*, Universitätzentrum, Obergurgl, Austria, April 2010

Instructor, Winter School on Exoplanets, Theoretical Institute for Advanced Research in Astrophysics, National Tsing Hua University, Hsinchu, Taiwan, Jan 2008

Multiple Planet Systems invited oral presentation, *Extrasolar Planets in Multi-Body Systems: Theory and Observations*, Toruń, Poland, 2008

Multiple Planet Systems and the Search for Solar System Analogs invited oral presentation, *Extreme Solar Systems*, Santorini, Greece, 2007

Maunder Minimum Stars Revisited: Calibrating Ca II H & K Measures invited oral presentation, Joint Discussion 8, IAU XXVIth General Assembly, Prague, Czech Republic, 2006

**Invited appearances at departmental talk series**

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Harvard University, CfA Colloquium, November 2018

Case Western Reserve University, Astronomy Colloquium, November 2017

Arizona State University, special technical talk, October 2017

Arizona State University, SESE Colloquium, October 2017

University of Rochester, Astronomy Colloquium, September 2017

UC Berkeley Weekly SETI Talk, May 2017

UC Berkeley Weekly SETI Talk, April 2017

National Radio Astronomical Observatory/UVA Joint Colloquium, March 2017

National Radio Astronomical Observatory Lunch Talk, March 2017

UC San Diego Astrophysics Seminar, February 2017

SETI Institute Weekly Colloquium, August 2016

## JASON THOMAS WRIGHT—CV

### Invited appearances at departmental talk series (continued)

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Columbia University Astrophysics Colloquium, April 2016  
Adler Planetarium Colloquium, January 2016  
Carnegie Institute of Washington DTM Seminar, November 2015  
Ohio University Astronomy and Physics Colloquium, April 2015  
McGill University Joint Astrophysics Seminar, February 2015  
Fermilab Astrophysics Seminar, June 2014  
UCSD Physics Astronomy Journal Club, June 2014  
Cal Poly Pomona Physics & Astronomy Seminar, June 2014  
UCLA Physics & Astronomy Colloquium, June 2014  
Rutgers University Astronomy Seminar, April 2014  
Space Telescope Science Institute, Star and Planet Formation Seminar March, 2014  
Yale University, Astronomy Department Special Seminar, March 2014  
American Museum of Natural History, Astrophysics Seminar, March 2014  
University of Delaware, Physics & Astronomy Colloquium, February 2014  
Penn State Abington, Special Seminar, February 2014  
University of Washington Astronomy, Colloquium, January 2014  
Bucknell University, Physics and Astronomy Coffee Talk, January 2014  
University of Rochester, Physics and Astronomy Colloquium, November 2013  
UC Berkeley Space Sciences Laboratory / Astronomy SETI Lunch Talk, November 2013  
San Francisco State University Physics and Astronomy Colloquium, November 2013  
NASA Ames Kepler Science Operations Lunch Talk, November 2013  
University of California Santa Cruz Special Colloquium, November 2013  
University of Texas at Austin Astronomy Department Colloquium, October 2013  
Harvard-Smithsonian CfA ITC Lunch Talk, September 2013  
Harvard-Smithsonian CfA ITC Colloquium, September 2013  
University of Virginia / NRAO Wednesday Lunch Talk, June 2013  
Caltech GPS Seminar, April 2013  
Caltech Yuk Lunch Talk, April 2013  
NExSci Wednesday Lunch Talk, April 2013  
NASA Goddard Exoplanet Club, March 2013  
Penn State *Swift* MOC talk, March 2013  
University of Michigan Astronomy Colloquium November 2012  
University of Michigan Special Seminar November 2012  
University of Toledo Astronomy Colloquium October 2012  
University of Pittsburgh Pitt-CMU Joint Physics/Astronomy Colloquium September 2012  
University of Michigan Special Seminar July 2012  
University of Florida Special Seminar July 2012  
Franklin and Marshall College Physics Department Colloquium, April 2012  
Gettysburg College Physics Department Colloquium, April 2012  
University of Florida Special Seminar July 2010  
Caltech Astronomy Department Colloquium, March 2010

# JASON THOMAS WRIGHT—CV

## Invited appearances at departmental talk series (continued)

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Maryland Astronomy Department Colloquium, March 2010  
Penn State University Astronomy Department Special Seminar December 2008  
Boston University Astronomy Department Colloquium, October 2008  
Cornell University Astronomy Department Galaxy/Star Lunch, January 2008  
Lawrence Livermore National Lab IGPP Colloquium, November 2007  
UC Berkeley Center for Integrated Planetary Science Lunch Talk, Spring 2007  
Princeton ISM/Star Formation Lunch, January 2007  
Lawrence Berkeley National Lab - INPA Lunch Talk, November 2006  
Center for Astrophysics Special Seminar, October 2006  
Center for Astrophysics SSP Seminar, October 2006  
The Ohio State University Astronomy Department Colloquium, October 2006  
Lowell Observatory Colloquium, October 2004

## Personal telescope experience

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Palomar, 5-m:

- optical high resolution spectroscopy with the East Arm Echelle and DoubleSpec
- near IR imaging and low resolution spectroscopy with TripleSpec
- externally dispersed interferometry with TEDI
- near IR imaging with WIRC (diffuser, grism, polarimetry)

Leuschner 0.8-m: optical camera

Lick 3-m: optical, high-resolution spectroscopy with the Hamilton Spectrograph

MMT 6.5-m:

- Multi-object high-resolution spectroscopy with HectoChelle

Keck, 10-m:

- optical high resolution spectroscopy with HIRES
- near IR high resolution spectroscopy with NIRSPEC

HET, 9-m: optical high resolution spectroscopy with HRS (queue observing)

Green Bank Telescope

- L,S,C,X,K band SETI observations with Breakthrough Listen Backend (2.5 GHz bandwidth)

JASON THOMAS WRIGHT—PUBLICATIONS

Not-Yet-Published Papers

Self and supervised researchers in **bold**

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**Submitted**

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The Variable Wavelength Dependence of the Dipping event of KIC 8462852 **Eva Bodman, Jason T. Wright**, Tabetha S. Boyajian, Tyler G. Ellis 2018 [arXiv:1806.08842](https://arxiv.org/abs/1806.08842)  
*AAS Journals*

**Accepted / in press**

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Retired A Stars and Their Companions VIII: 14 New Planetary Signals Around Subgiants and Transit Parameters for California Planet Search Planets with Subgiant Hosts **Jacob Luhn**, Fabienne Bastien, **Jason T. Wright**, John Asher Johnson, Andrew W. Howard, Howard Isaacson 2018 *AAS Journals*

**JASON THOMAS WRIGHT—PUBLICATIONS**  
Articles in the popular press

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“NASA Should Start Funding SETI Again” **Jason T. Wright** Observations, *Scientific American* <https://blogs.scientificamerican.com/observations/nasa-should-start-funding-seti-again/>

“Is it Ethical to Transmit Powerful Radio Signals?” **Jason T. Wright** “Ask the Ethicist” *Rock Ethics Institute* <http://rocketics.psu.edu/everyday-ethics/is-it-ethical-to-transmit-powerful-radio-signals-1>

“The Voyager Golden Records Forty Years Later” **Jason T. Wright** *The Conversation*, <https://theconversation.com/voyager-golden-records-40-years-later-real-audience-was-always-here-on-earth-79886>

“Strange News from Another Star” **Kimberley Cartier** and **Jason T. Wright** May 2017 print issue of *Scientific American* pp. 36-41. <https://www.scientificamerican.com/article/have-aliens-built-huge-structures-around-boyajian-rsquo-s-star/>

“An Update From the Astronomers Who Proposed the Alien Megastructures: Where the quest to understand the most mysterious star in the galaxy stands today.” **Jason T. Wright** and **Kimberly M. S. Cartier** May 12, 2016 *The Atlantic* online, <http://www.theatlantic.com/science/archive/2016/05/the-most-mysterious-star-in-our-galaxy/482397/>

“When Did Life on Earth Begin?” **Kimberly M. S. Cartier** and **Jason T. Wright** December 2016 *Nautilus Quarterly*. Online at <http://cosmos.nautil.us/feature/76/when-did-life-on-earth-begin>

“This is Golden Age of Astronomy” **Jason T. Wright** “Focus on Research” 13 April 2012 *Centre Daily Times*

**JASON THOMAS WRIGHT—PUBLICATIONS**  
**Major Primary-Author and Supervised Publications**  
Self and supervised researchers in **bold**

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Some articles, like Research Notes of the AAS, exist only in electronic HTML form and so have no page numbers or formal number of pages. These are generally short (2 pp when printed)

For a complete list, go to [http://adsabs.harvard.edu/cgi-bin/nph-abs\\_connect?library&libname=My+papers&libid=4302931cb0](http://adsabs.harvard.edu/cgi-bin/nph-abs_connect?library&libname=My+papers&libid=4302931cb0)

Book Review: The Great Silence: The Science and Philosophy of Fermi's Paradox by Milan Ćirković. **Jason T. Wright** *Origins of Life and Evolution of Biospheres* (2018). [doi:10.1007/s11084-018-9568-3](https://doi.org/10.1007/s11084-018-9568-3)

How Much Searching Have We Done? Finding Needles in the  $n$ -Dimensional Cosmic Haystack **Jason T. Wright, Shubham Kanodia, and Emily Lubar** *Astronomical Journal* **156**, 6

Planet–Planet Tides in the TRAPPIST-1 System **Jason T. Wright** 2018 RNAAS **2**, 175 & 183

Recommendations from the Ad Hoc Committee on SETI Nomenclature **Jason T. Wright, Sofia Sheikh, Iván Almár, Kathryn Denning, Steven Dick, Jill Tarter**, 2018 [arXiv:1809.06857](https://arxiv.org/abs/1809.06857) (10 pp)

Inferring the Composition of Disintegrating Planet Interiors from Dust Tails with Future James Webb Space Telescope Observations **Eva Bodman, Jason T. Wright, Steven J. Desch, Carey M. Lisse** 2018 *Astronomical Journal* **156**, 173 (8 pp)

HD 4915: A Maunder Minimum Candidate **Shivani P. Shah, Jason T. Wright, Andrew W. Howard, Howard Isaacson, Jason L. Curtis** 2018 *Astrophysical Journal Letters* **863**, 26 (5pp)

Proving Heliocentrism and Measuring the Astronomical Unit in a Laboratory Astronomy Class Via the Aberration of Starlight **Jason T. Wright** RNAAS **2**, 119

Some Bright Stars with Smooth Continua for Calibrating the Response of High-resolution Spectrographs Kelsey Clubb, Andrew W. Howard, Howard Isaacson, Geoffrey W. Marcy, **Jason T. Wright** 2018 RNAAS **2**, 44

Taxonomy and Jargon in SETI as an Interdisciplinary Field of Study **Jason T. Wright** 2018b White paper accepted to *Community Input for the Advancement of the Search for Intelligent Life in the Universe, and the Creation of a Multidisciplinary Virtual Institute for SETI Research* ed. Natalie Cabrol arXiv:1803.06972 (3 pp)



**JASON THOMAS WRIGHT—PUBLICATIONS**  
**Major Primary-Author and Supervised Publications (continued)**  
Self and supervised researchers in **bold**

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Visions of Human Futures in Space and SETI **Jason T. Wright** and Michael P. Oman-Reagan 2018, *International Journal of Astrobiology* **17**, 117–188

SETI Is Part of Astrobiology **Jason T. Wright** 2018 submitted as a white paper to the National Academies of Sciences, Engineering, and Medicine ad hoc Committee on Astrobiology Science Strategy for Life in the Universe, 2018. arXiv:1801.04868 (5 pp)

A Reassessment of Families of Solutions to the Puzzle of Boyajian's Star **Jason T. Wright** 2018a *RNAAS* **2** 16

Python Leap Second Management and Implementation of Precise Barycentric Correction (barycorrpy) **Shubham Kanodia** and **Jason T. Wright** 2018, *RNAAS* **2**, 4

The Third Workshop on Extremely Precise Radial Velocities: The New Instruments **Jason T. Wright** and Paul Robertson 2017 *RNAAS* **1**, 15

On Distinguishing Interstellar Objects Like ‘Oumuamua From Products of Solar System Scattering **Jason T. Wright** 2018 *RNAAS* **1**, 38

Prior Indigenous Technological Species **Jason T. Wright** 2018 *International Journal of Astrobiology* **17**, 96–100

Radial Velocities as an Exoplanet Discovery Method **Jason T. Wright** 2017 *Handbook of Exoplanets* eds. Hans J. Deeg and Juan Antonio Belmonte, pp. 1–13, Springer [arXiv: 1707.07983](https://arxiv.org/abs/1707.07983)

Evidence for Atmospheric Cold-Trap Processes in the Non-Inverted Emission Spectrum of Kepler-13 AB Using HST/WFC3 **Thomas G. Beatty**, Nikku Madhusdhan, Angelos Tsaras, **Ming Zhao**, Ronald L. Gilliland, Heather A. Knutson, Avi Shporer, **Jason T. Wright** 2017, *AJ* **154**, 158 (15 pp)

Exoplanets and SETI **Jason T. Wright** 2017 *Handbook of Exoplanets* eds. Hans J. Deeg and Juan Antonio Belmonte, Springer 10.1007/978-3-319-30648-3\_186-1, [arXiv: 1707.02175](https://arxiv.org/abs/1707.02175) (9 pp)

Near-infrared Emission Spectrum of WASP-103b using Hubble Space Telescope/Wide Field Camera 3 **Kimberly M. S. Cartier**, **Thomas G. Beatty**, **Ming Zhao**, Michael Line, Henry Ngo, Dimitri Mawet, Keivan G. Stassun, **Jason T. Wright**, Laura Kreidberg, Jonathan Fortney, Heather Knutson 2016 *AJ* **153**, 34 (18 pp)

Families of Plausible Solutions to the Puzzle of Boyajian’s Star **Jason T. Wright** & Steinn Sigurðsson 2016 *ApJL* **829**, 1 (12 pp)

**JASON THOMAS WRIGHT—PUBLICATIONS**  
**Major Primary-Author and Supervised Publications (continued)**  
Self and supervised researchers in **bold**

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The Putative Old, Nearby Star Cluster Lodén 1 Does Not Exist **Eunkyu Han, Jason L. Curtis, Jason T. Wright** 2016 *AJ* **152**, 7 (12 pp)

The  $\hat{G}$  Infrared Search for Extraterrestrial Civilizations with Large Energy Supplies. IV. The Signatures and Information Content of Transiting Megastructures **Jason T. Wright, Kimberly M. S. Cartier**, Ming Zhao, Daniel Jontof-Hutter, Eric B. Ford 2016 *ApJ* **816**, 17 (22 pp)

Magnetism and Activity of Planet Hosting Stars **Jason T. Wright**, Brendan Miller, “Solar and Stellar Flares and Their Effects on Planets,” 2015 Proceedings IAU Symposium No. 320, pp. 357–366

The  $\hat{G}$  Infrared Search for Extraterrestrial Civilizations with Large Energy Supplies. III. The Reddest Extended Sources in *WISE* **Roger Griffith, Jason T. Wright**, Jessica Maldonado, Matthew S. Povich, Steinn Sigurðsson, **Brendan Mullan** 2015 *ApJS* **217**, 25 (34 pp)

The California Planet Survey IV: A Planet Orbiting the Giant Star HD 145934 and Updates to 7 Systems with Long-Period Planets **Y. Katherina Feng, Jason T. Wright, Benjamin Nelson**, Eric B. Ford, Geoffrey W. Marcy, Howard Isaacson, Andrew Howard 2015 *ApJ* **800**, 22 (14 pp)

Barycentric Corrections at 1 cm/s for precise Doppler velocities **Jason T. Wright** and Jason Eastman, 2014 *PASP* **126**, 838–852

The Exoplanet Orbit Database II: Updates to exoplanets.org **Eunkyu Han, Sharon Xuesong Wang, Jason T. Wright, Y. Katherina Feng, Ming Zhao**, Onsi Fakhouri, **Jacob I. Brown, Colin Hancock** 2014 *PASP* **126**, 827–837

The  $\hat{G}$  Infrared Search for Extraterrestrial Civilizations with Large Energy Supplies. I. Background and Justification, **Jason T. Wright, Brendan Mullan**, Steinn Sigurðsson, Matthew S. Povich 2014a *ApJ*, **792**, 26, 16pp

The  $\hat{G}$  Infrared Search for Extraterrestrial Civilizations with Large Energy Supplies. II. Framework, Strategy, and First Result, **Jason T. Wright, Roger Griffith**, Steinn Sigurðsson, Matthew S. Povich, **Brendan Mullan** 2014b *ApJ*, **792**, 27, 12pp

Earthshine on a Young Moon: Explaining the Lunar Farside Highlands **Arpita Roy, Jason T. Wright**, Steinn Sigurðsson 2014 *ApJL* **788**, 42-44

**JASON THOMAS WRIGHT—PUBLICATIONS**  
**Major Primary-Author and Supervised Publications (continued)**  
Self and supervised researchers in **bold**

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MARVELS-1: A Face-on Double-lined Binary Star Masquerading as a Resonant Planetary System and Consideration of Rare False Positives in Radial Velocity Planet Searches **Jason T. Wright**, **Arpita Roy**, Suvrath Mahadevan, **Sharon (Xuesong) Wang**, Eric B. Ford, Matthew Payne, Brian L. Lee, Ji Wang, Justin R. Crepp, B. Scott Gaudi, and 17 other co-authors, 2013 *ApJ* **770**, 119-139

Ruprecht 147: The Oldest Nearby Open Cluster as a New Benchmark for Stellar Astrophysics **Jason L. Curtis**, **Angie Wolfgang**, **Jason T. Wright**, John M. Brewer, John Asher Johnson, 2012, *AJ* **145**, 134-159

Exoplanet Detection Methods **Jason T. Wright** and B. Scott Gaudi, Chapter 59 of *Planets, Stars, and Stellar Systems* (T. Oswalt, ed.) Springer-Verlag, Berlin, Heidelberg 2012 (arXiv:1210.2471), 60 pp.

The Discovery of HD 37605c and a Dispositive Null Detection of Transits of HD 37605b, **Sharon X. Wang**, **Jason T. Wright**, William Cochran, Stephen R. Kane, Gregory W. Henry, Matthew J. Payne, Jeff A Valenti, Victoria Antoci, Andrew W. Howard, Geoffrey W. Marcy, Howard Isaacson, Diana Dragomir, Jaymie M. Matthews, Eric B. Ford, Suvrath Mahadevan, Michael Endl, Phillip J. MacQueen, Kaspar von Braun, 2012, *ApJ* **761**, 46-58

The Frequency of Hot Jupiters orbiting F, G, and K Stars in the Solar Neighborhood, **Jason T. Wright**, Geoffrey W. Marcy, Andrew W. Howard, John Asher Johnson, Tim D. Morton, Debra A. Fischer 2012 *ApJ* **753**, 160-164

Non-detection of the Putative Substellar Companion to HD 149382 **Jackson M. Norris**, **Jason T. Wright**, Richard A. Wade, Suvrath Mahadevan and **Sara Gettel**, 2011, *ApJ* **743**, 88-93

The California Planet Survey III. A Possible 2:1 Resonance in the Exoplanetary Triple System HD 37124, **Jason T. Wright**, Dimitri Veras, Eric B. Ford, John Asher Johnson, Geoffrey W. Marcy, Andrew W. Howard, Howard Isaacson, Debra A. Fischer, Julien Spronck, Jay Anderson, Jeff Valenti, 2011, *ApJ* **730**, 93-101

The Exoplanet Orbit Database, **Jason T. Wright**, Onsi Fakhouri, Geoffrey W. Marcy, **Eunkyu Han**, **Ying Feng**, John Asher Johnson, Andrew W. Howard, Jeff A. Valenti, Jay Anderson, Nikolai Piskunov 2011 *PASP* **123**, 412-422

A Survey of Multiple Planet Systems **Jason T. Wright** 2010 in *Extrasolar Planets in Multi-Body Systems*, Toruń, Poland, August 25-29 2008, EAS Publications Series, Volume **42**, 3-17 (arXiv:0909.0957)

**JASON THOMAS WRIGHT—PUBLICATIONS**  
**Major Primary-Author and Supervised Publications (continued)**  
Self and supervised researchers in **bold**

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A Third Planet Orbiting HIP 14810, **Jason T. Wright**, Debra A. Fischer, Eric B. Ford, Dimitri Veras, Ju Wang, Geoffrey W. Marcy, Andrew W. Howard, Gregory W. Henry, and John Asher Johnson, 2009, *ApJL*, **699**, 97-101

Ten New and Updated Multi-Planet Systems, and a Survey of Exoplanetary Systems, **Jason T. Wright**, Suneet Upadhyay, Geoffrey W. Marcy, Debra A. Fischer, Eric B. Ford, John Asher Johnson, 2009 *ApJ*, **693**, 1084-1099

Efficient Fitting of Multi-Planet Keplerian Models to Radial Velocity and Astrometry Data, **Jason T. Wright** & Andrew W. Howard, 2009 *ApJS*, **182**, 205-215, *ApJS* **205**, 22

The Jupiter Twin HD 154345b, **Jason T. Wright**, Geoffrey W. Marcy, R. Paul Butler, Steve S. Vogt, Gregory W. Henry, Howard Isaacson, Andrew W. Howard, 2008, *ApJ* **683**, 63-66

Four New Exoplanets and Hints of Additional Substellar Companions to Exoplanet Host Stars **Jason T. Wright**, Geoffrey W. Marcy, Debra A. Fischer, R. Paul Butler, Steven S. Vogt, Chris G. Tinney, Hugh R. A. Jones, Brad D. Carter, John Asher Johnson, Chris McCarthy, Kevin Apps, 2007, *ApJ* **657**, 533-545

Catalog of Nearby Exoplanets R. Paul Butler, **Jason T. Wright**, Geoffrey W. Marcy, Debra A. Fischer, Steve S. Vogt, Chris G. Tinney, Hugh R. A. Jones, Brad D. Carter, John Asher Johnson, Chris McCarthy, Alan J. Penny, 2006 *ApJ* **646**, 505-522

Radial Velocity Jitter for Stars in the California and Carnegie Planet Search at Keck Observatory **Jason T. Wright**, 2005 *PASP* **117**, 657-664

Do We Know of Any Maunder Minimum Stars? **Jason T. Wright**, 2004 *AJ* **128**, 1273-1278; **129**, 1776

Chromospheric Ca II Emission in Nearby F, G, K, and M Stars, **Jason T. Wright**, Geoffrey W. Marcy, R. Paul Butler, Steve S. Vogt, 2004 *ApJS* **152**, 261-295

## JASON THOMAS WRIGHT—PUBLICATIONS

### Other Peer-Reviewed Publications

Self and supervised researchers in **bold**

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Rio 2.0: revising the Rio scale for SETI detections Duncan Forgan, **Jason T. Wright**, Jill Tarter, Eric Korpela, Andrew Siemion, Iván Almár, Elisabeth Piotelat 2018 *International Journal of Astrobiology* <https://doi.org/10.1017/S1473550418000162> (9 pp)

K2-231 b: A Sub-Neptune Exoplanet Transiting a Solar Twin in Ruprecht 147 Jason L. Curtis, Andrew Vanderburg, Guillermo Torres, Adam L. Kraus, Daniel Huber, Andrew W. Mann, Aaron C. Rizzuto, Howard Isaacson, Andrew W. Howard, Christopher E. Henze, Benjamin J. Fulton, **Jason T. Wright** 2018, *AJ* **155**, 173 (17 pp)

Proper Motion of the Faint Star near KIC 8462852 (Boyajian's Star)—Not a Binary System Dan P. Clemens, Kush Maheshwari, Roshan Jagani, J. Montgomery, A. M. El Batal, T.G. Ellis, **Jason T. Wright** 2018, *ApJ* **856**, 8 (5 pp)

The First Post-Kepler Brightness Dips of KIC 8462852 Tabetha Boyajian and 198 other authors including **Jason T. Wright** and **Eva Bodman** 2018, *ApJL* **853**, 8 (14 pp)

KELT-19Ab: A P ~ 4.6-day Hot Jupiter Transiting a Likely Am Star with a Distant Stellar Companion Robert J. Siverd and 44 co-authors including **Jason T. Wright** and **Thomas Beatty** 2018 *AJ* **155**, 35 (18 pp)

KELT-20b: A Giant Planet with a Period of P ~ 3.5 days Transiting the V ~ 7.6 Early A Star HD 185603 Michael B. Lund and 56 coauthors including **Jason T. Wright** and **Thomas Beatty** 2018 *AJ* **154**, 194 (16 pp)

Toward Space-like Photometric Precision from the Ground with Beam-shaping Diffusers Gudmundur Stefansson, Suvrath Mahadevan, Leslie Hebb, John Wisniewski, Joseph Huehnerhoff, Brett Morris, Sam Halverson, **Ming Zhao**, Jason Wright<sup>1,2,3</sup>, Joseph O'Rourke, Heather Knutson, Suzanne Hawley, Shubham Kanodia, Yiting Li, Lea M. Z. Hagen, **Leo J. Liu**, **Thomas Beatty**, Chad Bender, Paul Robertson, Jack Dembicky, Candace Gray, William Ketzbeck, Russet McMillan, and Theodore Rudyk 2017 *Astrophysical Journal* **848**, 9

Breakthrough Listen — A New Search for Life in the Universe S. Peter Worden, Jamie Drew, Andrew Siemion, Dan Werthimer, David DeBoer, Steve Croft, David MacMahon, Matt Lebofsky, Howard Isaacson, Jack Hickish, Danny Price, and Vishal Gajjar, **Jason T. Wright** 2017 *Acta Astronautica* **139**, 98–101

## JASON THOMAS WRIGHT—PUBLICATIONS

### Other Peer-Reviewed Publications (continued)

Self and supervised researchers in **bold**

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The Mysterious Dimmings of the T Tauri Star V1334 Tau Joseph E. Rodriguez, George Zhou, Phillip A. Cargile, Daniel J. Stevens, Hugh P. Osborn, Benjamin J. Shappee, Phillip A. Reed, Michael B. Lund, Howard M. Relles, David W. Latham, Jason Eastman, Keivan G. Stassun, Allyson Bieryla, Gilbert A. Esquerdo, Perry Berlind, Michael L. Calkins, Andrew Vanderburg, Eric Gaidos, Megan Ansdell, Robert J. Siverd, Thomas G. Beatty, Christopher S. Kochanek, Joshua Pepper, B. Scott Gaudi, Richard G. West, Don Pollacco, David James, Rudolf B. Kuhn, Krzysztof Z. Stanek, Thomas W.-S. Holoiien, Jose L. Prieto, Samson A. Johnson, Anthony Sergi, Nate McCrady, John A. Johnson, **Jason T. Wright**, Robert A. Wittenmyer, Jonathan Horner 2017 *AJ* **153**, 34 (11 pp)

Multiwavelength Transit Observations of the Candidate Disintegrating Planetesimals Orbiting WD 1145+017 Bryce Croll, Paul A. Dalba, Andrew Vanderburg, Jason Eastman, Saul Rappaport, John DeVore, Allyson Bieryla, Philip S. Muirhead, Eunhyu Han, David W. Latham, **Thomas G. Beatty**, Robert A. Wittenmyer, **Jason T. Wright**, John Asher Johnson, Nate McCrady 2017 *ApJ* **836**, 17 (16 pp)

KELT-11b: A Highly Inflated Sub-Saturn Exoplanet Transiting the V=8 Subgiant HD 93396 Joshua Pepper, Joseph E. Rodriguez, Karen A. Collins, John Asher Johnson, Benjamin J. Fulton, Andrew W. Howard, **Thomas Beatty**, Keivan G. Stassun, Howard Isaacson, Knicole d. Colón, Michael B. Lund, Rudolf B. Kuhn, Robert J. Siverd, B. Scott Gaudi, T.G. Tan, Ivan Curtis, Christopher Stockdale, Dimitri Mawet, Michael Bottom, David James, George Zhou, Daniel Bayliss, Phillip Cargile, Allyson Bieryla, Kaloyan Penev, David W. Latham, Jonathan Labadie-Bartz, John Kielkopf, Jason D. Eastman, Thomas E. Oberst, Eric L. N. Jensen, Peter Nelson, David H. Sliski, Robert A. Wittenmyer, Nate McCrady, **Jason T. Wright**, Howard M. Relles 2017, *AJ* **153**, 215 (15 pp)

Three Temperate Neptunes Orbiting Nearby Stars Benjamin J. Fulton, Andrew W. Howard, Lauren M. Weiss, Evan Sinukoff, Erik A. Petigura, Howard Isaacson, Lea Hirsch, Geoffrey W. Marcy, Gregory W. Henry, Samuel K. Grunblatt, Daniel Huber, Kaspar von Braun, Tabettha S. Boyajian, Stephen R. Kane, Justin Wittrock, Elliott P. Horch, David R. Ciardi, Steve B. Howell, **Jason T. Wright**, Eric B. Ford, 2016, *ApJ* **830**, 46 (19 pp)

State of the Field: Extreme Precision Radial Velocities Debra A. Fischer and 55 other authors including **Jason T. Wright** and **Sharon X. Wang**, 2016 *PASP* **128**, 6001 (45 pp)

## JASON THOMAS WRIGHT—PUBLICATIONS

### Other Peer-Reviewed Publications (continued)

Self and supervised researchers in **bold**

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Inferring the Composition of Disintegrating Planet Interiors from Dust Tails with Future JWST Observations **Eva Bodman, Jason T. Wright**, Steven Desch, Carey M. Lisse  
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The NEID precision radial velocity spectrometer: optical design of the port adapter and ADC Christian Schwab, Ming Liang, Qian Gong, Chad Bender, Cullen Blake, Samuel Halverson, Daniel Harbeck, Fred Hearty, Emily Hunting, Kurt P. Jaehnig, Sarah E. Logsdon, Suvrath Mahadevan, Michael W. McElwain, Andrew J. Monson, Jeffrey W. Percival, Jayadev Rajagopal, Lawrence Ramsey, Paul M. Robertson, Arpita Roy, Fernando Santoro, Michael P. Smith, Ryan C. Terrien, Erik Timmermann, Phil Willems, Marsha J. Wolf, **Jason T. Wright** 2018 SPIE Proceedings Volume 10702, Ground-based and Airborne Instrumentation for Astronomy VII; 1070271 <https://doi.org/10.1117/12.2314420>

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Artifact SETI as a Fruitful Complement to Communication SETI **Jason T. Wright**  
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The Transiting Dust of Boyajian's Star Eva Bodman, Tyler G. Ellis, Tabettha S. Boyajian, **Jason T. Wright** 2018 American Astronomical Society Meeting #232 #315.06

Swift X-Ray Monitoring of Stellar Coronal Variability Brendan Miller, Cedric Hagen, Elena Gallo, **Jason T. Wright** 2018 American Astronomical Society Meeting #231 #349.24

Grand Magnetic Minimum Candidate **Shivani Shah, Jason T. Wright**, Howard Isaacson, Andrew Howard 2018 American Astronomical Society Meeting #231 #349.11

Radial Velocities of Subgiant Stars and New Astrophysical Insights into RV Jitter **Jacob Luhn**, Fabienne Bastien, **Jason T. Wright** 2018 American Astronomical Society Meeting #231 #303.03

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**Other Publications and Conference Abstracts (continued)**  
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HPF: The Habitable Zone Planet Finder at the Hobby-Eberly Telescope **Jason T. Wright**, Suvrath Mahadevan, Fred Hearty, Andy Monson, Gudmundur Stefansson, Larry Ramsey, Joe Ninan, Chad Bender, Kyle Kaplan, Aprita Roy, Paul Robertson, Sam Halverson, Christian Schwab, Shubham Kanodia 2018 American Astronomical Society Meeting #231 #264.45

NEID: A High Precision Radial Velocity Spectrograph for the WIYN 3.5-m Telescope Lori E. Allen, **Jason T. Wright** and 35 other coauthors 2018 American Astronomical Society Meeting #231 #246.08

The Habitable Zone Planet Finder: Precision NIR Radial Velocities during Testing & Commissioning Joe Philip Ninan, Arpita Roy, Ryan Terrien, Kyle Kaplan, Chad Bender, Andy Monson, Paul Robertson, Gudmundur Stefansson, Shubham Kanodia, Sam Halverson, Suvrath Mahadevan, Fred Hearty, **Jason T. Wright**, Lawrence Ramsey, Scott Blakeslee, Tyler Anderson, Christian Schwab 2018 American Astronomical Society Meeting #231 #152.18

NEID Port Adapter: Design and Verification Plan Sarah E. Logsdon and 19 other coauthors including **Jason T. Wright** 2018 American Astronomical Society Meeting #231 #152.08

Understanding Super-Earths with MINERVA-Australis at USQ's Mount Kent Observatory Robert Wittenmyer, Jonathan Horner, Stephen Kane, Peter Plavchan, David Ciardi, Jason Eastman, John Asher Johnson, **Jason T. Wright**, Nate McCrady, the MINERVA Collaboration 2018 American Astronomical Society Meeting #231 #128.01

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Light Curves as Predictors of Good Radial Velocity Planet Search Targets in New Stellar Domains **Fabienne Bastien**, **Jason Wright**, Steinn Sigurdsson, Xavier Dumusque, **Jacob K. Luhn**, and Andrew Howard, 2017 American Astronomical Society Meeting #229 #403.02

Multimedia Astronomy Communication: Effectively Communicate Astronomy to the Desired Audience **Kimberly M. S. Cartier** and **Jason T. Wright**, 2017 American Astronomical Society Meeting #229 #335.01

Spectroscopic commissioning results from MINERVA Jason D. Eastman, Samuel Johnson, **Sharon X. Wang**, David Sliski, M. Wilson, John Asher Johnson, Nate McCrady, Robert A. Wittenmyer, **Jason T. Wright**, Peter Plavchan, Cullen Blake, and **Thomas G. Beatty** 2017 American Astronomical Society Meeting #229 #320.02

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Stellar Magnetic Activity Cycles, and Hunting for Maunder Minimum-like Events among Sun-like Stars **Jason T. Wright** 2016 2016 Fall Meeting of the American Geophysical Union, poster #SH43D-2592

Swift X-ray monitoring of M dwarf coronal variability Brendan P. Miller, C. Hagen, Elena Gallo, and **Jason T. Wright** 2017 American Astronomical Society Meeting #229 #245.27

Atmospheric evaporation in super-Earth exoplanet systems S. Moller, Brendan P. Miller, Elena Gallo, **Jason T. Wright**, and Katja Poppenhaeager 2017 American Astronomical Society Meeting #229 #245.26

The effect of stellar radiation on exoplanet atmospheric heating and mass loss W. Ojanen, Brendan P. Miller, Elena Gallo, **Jason T. Wright**, and Katja Poppenhaeager 2017 American Astronomical Society Meeting #229 #245.25

The Exo-Atmosphere of WASP-103b Kimberley M. S. Cartier, **Jason T. Wright**, and **Thomas G. Beatty** 2017 American Astronomical Society Meeting #229 #202.04

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Weighing Rocky Exoplanets with Improved Radial Velocimetry **Sharon X. Wang, Jason T. Wright**, The California Planet Survey Consortium, 2016 American Astronomical Society Meeting #227 #220.03

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Statistics of Long-Period Gas Giant Planets in Known Planetary Systems Bryan Levesque and 11 other authors including **Jason T. Wright**, 2015 Extreme Solar Systems III #101.07

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A Comprehensive Statistical Assessment of Star-Planet Interaction Brendan Miller, Elena Gallo, **Jason Thomas Wright** Poster 8.453, International Astronomical Union General Assembly, Honolulu, HI, August 2015

The G-HAT Infrared Search for Extraterrestrial Civilizations with Large Energy Supplies: **Jason Thomas Wright**, Matthew Povich, Roger Griffith, Jessica Maldonado, Steinn Sigurdsson, Kimberly Star Cartier, Poster 2.155, International Astronomical Union General Assembly, Honolulu, HI, August 2015

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A Planet Orbiting the Giant Star HD 145934 and Updates to 7 Systems with Long-Period Planets, **Y. Katherina Feng, Jason T. Wright, Benjamin Nelson**, Eric B. Ford, Geoffrey W. Marcy, Howard Isaacson, Andrew Howard, Keck Science Meeting Poster, October 2–3, 2014

A Planet Orbiting the Giant Star HD 145934 and Updates to 7 Systems with Long-Period Planets, **Y. Katherina Feng, Jason T. Wright, Benjamin Nelson**, Eric B. Ford, Geoffrey W. Marcy, Howard Isaacson, Andrew Howard, Bay Area Exoplanet Science Meeting Oral Presentation, September 12, 2014

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Joint Bayesian and N-body Analyses of the 55 Cancri and GJ 876 Planetary Systems **Benjamin E. Nelson**, Eric B. Ford, **Jason T. Wright**, Debra Fischer 2014 American Astronomical Society, Division of Dynamical Astronomy Meeting #45 #201.01

The  $\hat{G}$  Mid-Infrared Search for Extraterrestrial Civilizations with Large Power Supplies: First Results Matthew S. Povich, **Jason T. Wright**, Roger Griffith, Steinn Sigurdsson, Jessica T. Maldonado, **Brendan Mullan** 2014 Search for Life Beyond the Solar System. Exoplanets, Biosignatures & Instruments. Poster abstract P5.93.

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Is Lodén 1 an old and nearby star cluster? **Eunkyu Han, Jason L. Curtis, Jason T. Wright** 2014 American Astronomical Society, AAS Meeting #223 #442.06

Limits on Stellar Companions to Exoplanet Host Stars With Eccentric Planets Stephen R. Kane, Steve B. Howell, E. Horch, David R. Ciardi, Andrew Howard, **Ying Feng, Jason T. Wright** 2014 American Astronomical Society, AAS Meeting #223 #411.03

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A Mid-Infrared Search for Kardashev Civilizations Steinn Sigurðsson, **Jason T. Wright**, **Roger Griffith**, Matthew S. Povich 2014 American Astronomical Society, AAS Meeting #223 #349.01

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Remastering the RV Classics: Self-Consistent Dynamical Models for the 55 Cnc and GJ 876 Planetary Systems Benjamin E. Nelson, Eric B. Ford, **Jason T. Wright**, Debra Fischer 2014 American Astronomical Society, AAS Meeting #223 #325.01

A Survey of the Hottest Jupiter Atmospheres via Secondary Eclipses **Ming Zhao**, J. O'Rourke, Heather Knutson, **Jason T. Wright** 2014 American Astronomical Society, AAS Meeting #223 #207.06

MINERVA: Small Telescopes, Small Planets **Jason T. Wright**, John Asher Johnson, Nate McCrady, Jon Swift, Philip S. Muirhead, **Ming Zhao**, Peter Plavchan, Michael Bottom, Rob A. Wittenmyer 2014 American Astronomical Society, AAS Meeting #223 #148.31

A Modern Take on the RV Classics: N-body Analysis of GJ 876 and 55 Cnc, Benjamin E. Nelson, Eric B. Ford, **Jason T. Wright**, 2013 American Astronomical Society, AAS Meeting #221 #343.06

TERMS and Conditions of Transiting Exoplanets, Natalie R. Hinkel, David Ciardi, Diana Dragomir, Debra A. Fischer, Gregory W. Henry, Andrew Howard, Eric L. Jensen, Stephen R. Kane, Gregory Laughlin, Suvrath Mahadevan, Genady Pilyavsky, Kaspar von Braun, K., **Xuesong Wang**, **Jason T. Wright**, 2013 American Astronomical Society, AAS Meeting #221 #343.05

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Ground-based NIR Measurements of the Atmospheres of Transiting Hot Jupiters, **Ming Zhao**, Jennifer Milburn, Mark Swain, Heather Knutson, **Jason T Wright**, 2013 American Astronomical Society, AAS Meeting #221 #149.16

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Updates to the Exoplanet Orbit Database and Transit & Secondary Eclipse Ephemerides, **Eunkyu Han**, **Ying Feng**, **Jason T. Wright**, **Ming Zhao**, **Xuesong Wang**, Onsi Fakhouri, Stephen R. Kane, Diana Dragomir, 2013 American Astronomical Society, AAS Meeting #221 #149.01

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On The Frequency Of Hot Jupiters Orbiting F, G, K Dwarfs In The Solar Neighborhood **Jason T. Wright**, Geoffrey W. Marcy, Andrew W. Howard, John Asher Johnson, Tim Morton, Debra A. Fischer 2012 American Astronomical Society, AAS Meeting #219 #245.16

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Measuring Radial Velocities in R-band with Telluric Line Calibration **Sara Gettel**, Chad Bender, **Jason T. Wright** and Alexander Wolszczan 2011 Extreme Solar Systems #2, #20.14

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Characterizing the Nearest Old Cluster - Ruprecht 147 **Jason L. Curtis** and **Jason T. Wright** 2011 American Astronomical Society, AAS Meeting #218, #133.01

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Precise Infrared Radial Velocimetry with the Triplespec Exoplanet Discovery Instrument: Current Performance and Results, Philip Muirhead, Jerry Edelstein, **Jason T. Wright**, David Erskine, Matthew Muterspaugh, Kevin Covey, Mario R. Marckwordt, Samuel Halverson, Daniel Mondo, James P. Lloyd, 2010, *Ground-based and Airborne Instrumentation for Astronomy III. Proceedings of the SPIE*, **7735**, 77357X-77357X-8, 8pp

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