

GUÐMUNDUR KÁRI STEFÁNSSON, PHD — CV

HENRY NORRIS RUSSELL POSTDOCTORAL FELLOW

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EDUCATION

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| 2013-2019 | Penn State University: Ph.D., Astronomy & Astrophysics (advisor: Suvrath Mahadevan) — Thesis: <i>Extreme Precision Photometry and Radial Velocimetry from the Ground</i> |
| 2012 | Stanford University: Summer International Honors Program |
| 2010-2013 | University of Iceland: B.S., Physics (Thesis: <i>Observational Constraints on Dark Energy</i>) |

APPOINTMENTS

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| 2022+ | NASA Hubble/Sagan Fellow Department of Astrophysical Sciences, Princeton University [Advisor: Dr. Joshua Winn] |
| 2019-2022 | Henry Norris Russell Postdoctoral Fellow Department of Astrophysical Sciences, Princeton University [Advisor: Dr. Joshua Winn] |
| 2016-2019 | NASA Earth and Space Science Fellow Dept. of Astronomy & Astrophysics, Penn State University [Advisor: Dr. Suvrath Mahadevan] |
| 2015-2016 | Leifur Eiriksson Research Fellow Dept. of Astronomy & Astrophysics, Penn State University [Advisor: Dr. Suvrath Mahadevan] |
| 2013-2014 | Teaching Assistant in Astrophysics Dept. of Astronomy & Astrophysics, Penn State University |
| 2013 | CERN Summer Research: ISOLDE Experiment European Organization for Nuclear Research, CERN [Advisor: Dr. María Borge] |
| 2011-2013 | Undergraduate Researcher in Nanophotonics Department of Physics, University of Iceland [Advisor: Dr. Kristján Leósson] |

INSTRUMENTS & COLLABORATIONS

The Habitable-zone Planet Finder | Deputy Project Scientist

Near-infrared (NIR) spectrograph on the 10m Hobby-Eberly Telescope demonstrating some of the highest RV precision in the NIR (1.5m/s). I currently lead the HPF 5-year survey. I led and co-led the design and testing of a number of subsystems.

NEID | Instrument & Science Team Member

The NASA-NSF precision RV spectrograph on the WIYN 3.5m telescope with a ~ 30 -50cm/s RV precision. I led and co-led the design and testing of a number of subsystems. I am leading a number of on-sky science programs.

KPF | Science Team Member

I am a member of the science team of the Keck Planet Finder, the next-generation RV spectrograph for the Keck-I telescope.

Space-Quality Photometry with Engineered Diffusers | NSF-funded collaboration

I pioneered the use of Engineered Diffusers to achieve some of the highest precision photometry from the ground.

SELECT AWARDS & HONORS

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| 2022-2025 | NASA Hubble Postdoctoral Fellowship (NHFP) |
| 2021 | Robert J. Trumpler Award , for an unusually important PhD Thesis to Astronomy |
| 2016-2019 | NASA Earth and Space Science Fellowship (NESSF) |
| 2016,18,19 | Zaccheus Daniel Travel Award , Penn State |
| 2017 | Downsbrough Graduate Fellowship , Penn State |
| 2015 | Stephen B. Brumbach Fellowship in Astrophysics , Penn State |
| 2015 | Leifur Eiríksson Foundation Fellowship |
| 2014 | TA of the Year , Penn State |
| 2013 | G. P. Bjarnason Scholarship , Univ. Iceland |
| 2013 | Braddock-Roberts Fellowship , Penn State |
| 2013-2018 | Fulbright Fellowship , PhD program at Penn State |
| 2010 | 41st International Physics Olympiad IPHO , honorable mention |

PROFESSIONAL TALKS

1. 2022/09/20: **Invited colloquium**, The College of New Jersey, NJ, USA
2. 2022/09/12: Contributed talk, NASA Hubble Symposium, Space Telescope Science Institute, USA
3. 2022/04/04: **Invited colloquium**, University of Wisconsin, Madison, WI, USA
4. 2022/03/23: **Invited colloquium**, University of Hawaii, HI, USA
5. 2022/03/10: **Invited colloquium**, University of California Berkeley, CA, USA
6. 2022/03/10: **Invited Lunch Talk**, University of California Berkeley, CA, USA
7. 2022/02/22: **Invited Bahcall Lunch Talk**, Princeton University
8. 2022/01/27: **Invited colloquium**, Yale University (online)
9. 2021/09/09: **Invited colloquium**, University of Oklahoma (online)
10. 2021/06/03: **Invited talk**, Princeton Astrophysics Advisory Council (online)
11. 2021/04/07: **Invited seminar**, University of Pennsylvania (online)
12. 2020/10/29: **Invited seminar**, NASA Goddard Space Flight Center (online)
13. 2020/10/15: Thunch seminar talk, Princeton University (online)
14. 2020/03/11: Seminar talk, Center for Computational Astrophysics, New York, NY, USA
15. 2019/08/20: Contributed talk, Extreme Solar Systems IV, Reykjavik, Iceland
16. 2019/03/21: Contributed talk, Extreme Precision Radial Velocities IV, Grindelwald, Switzerland
17. 2019/01/08: Dissertation talk, 233rd AAS Meeting, Seattle, WA, USA
18. 2019/01/08: **Invited talk**, NESSF Special Session, 233rd AAS Meeting, Seattle, WA, USA
19. 2018/09/17: Exoplanet seminar talk, Princeton University, NJ, USA
20. 2018/09/14: **Invited seminar**, Space Sciences Lab, University of California, Berkeley, CA, USA
21. 2018/09/12: **Invited exoplanet seminar**, California Institute of Technology, CA, USA
22. 2018/09/10: Seminar talk, Center for Exoplanets and Habitable Worlds, Penn State, PA, USA
23. 2018/06/22: Contributed talk, Emerging Researchers in Exoplanet Science IV, Penn State, PA, USA
24. 2017/08/15: **Invited breakout session**, Extreme Precision Radial Velocities III, Penn State, USA
25. 2017/08/14: Contributed talk, Extreme Precision Radial Velocities III, Penn State, USA
26. 2017/01/05: Contributed talk, Icelandic Astronomical Society Meeting, Reykjavik, Iceland
27. 2016/06/12: Contributed talk, Emerging Researchers in Exoplanet Science II, Cornell, NY, USA
28. 2015/05/28: Contributed talk, Emerging Researchers in Exoplanet Science I, Penn State, PA, USA

MENTORING

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| 2022+ | Robert Frazier Undergraduate at Penn State. Summer research project. |
| 2020-2022 | Sinclair Jones Undergraduate at Princeton. 2x Junior Projects, Senior Thesis advisor. Now at Ohio State. |
| 2019-2022 | Shubham Kanodia Graduate Student at Penn State. Planet Detection, Instrumentation. |
| 2019-2022 | Caleb Cañas Graduate Student at Penn State. Planet Detection & Characterization. |
| 2018-2021 | Marissa Maney Undergraduate at Penn State. Transits & instrumentation. Now at Harvard. |
| 2018 | R. Bowens, B. DeMarcy : Independent Transit Research Project |
| 2016-18 | Yiting Li Undergraduate at Penn State. Transits & instrumentation. Now at UCSB. |
| 2015-17 | David Conrad Undergraduate at Penn State. Instrumentation. Now at RIT. |

TEACHING

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| 2013,14 | INSTRUCTOR OF RECORD , Astro 11, Penn State |
| 2014 | TA , Planetarium, Davey Lab Observatory Observing, Penn State |
| 2014 | TA & GUEST LECTURER , Astro 1, Astro 5, Astro 6, Penn State |
| 2013,14 | TA & GUEST LECTURER , Astro 1, 5, 6, 10, Planetarium Shows, Penn State |
| 2012,13 | TA , Physics 2, Physics-305G, Experimental Physics Lab, Classical Mechanics, Uni. Iceland |
| 2012 | TA , Classical Mechanics, Uni. Iceland |
| 2012 | PRIVATE TUTOR , Physics 1V, Nobel 101 |

PRESS RELEASES

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| Nov 2020 | In the Mysterious Blue Ring Nebula, Scientists See the Fate of Binary Stars — Princeton |
| Aug 2020 | Surprisingly Dense Exoplanet Challenges Planet Formation Theories — NOIRLab |
| Feb 2020 | Sub-Neptune-sized planet validated with the Habitable-zone Planet Finder — Penn State |
| Jan 2020 | A New Tool for 'Weighing' Unseen Planets — NASA/JPL |
| Oct 2017 | Press Release on Engineered Diffuser Technology — Penn State |

SELECT OUTREACH

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| August 2022 | NHFP Application Q&A: Panelist on applying for the NASA Hubble Fellowship Program |
| Feb 2021 | Amateur Astronomy Association of Princeton: Talk on Exoplanets and Instrumentation |
| Jan 2020 | Nobel Prize in Physics: Exoplanets Public talk, National History Museum of Iceland |
| Current (2014+) | HPF & NEID Blogs: (hpf.psu.edu): 10 articles, and 4 videos |
| 2017, 2019, 2021 | Radio Interviews: <i>Morgunútvarpið</i> , <i>Samfélagið</i> , Icelandic public radio |
| 2017, 2019, 2021 | Newspaper Interviews: <i>Vísir</i> , Icelandic newspaper |
| 2017 | Solar Eclipse Viewing: Volunteering during solar eclipse on August 21st |
| 2014-2016 | @astrobites: Wrote > 20 articles, a daily astronomy literature journal |
| 2014, 2015 | Public Observing: Numerous nights with 10", 12", and 24" telescopes, Penn State |
| 2013, 2014, 2015 | Astro-Fest, Astro-Night: Public observing, planetarium, make-a-comet, Penn State |
| 2013, 2014, 2015 | Astro-Night: Public observing, planetarium, Penn State |
| 2014 | Exploration U: Community Science Night, State College |
| 2012, 2013 | University Day: Experimental Physics Demonstrations, Uni. Iceland |

SELECT ACADEMIC SERVICE

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| Review Panels | NASA Extreme Precision Radial Velocity Foundation Science Proposals, March 2021 |
| Referee | MNRAS, A&A, ApJL |
| Membership | American Astronomical Society, Astronomical Society of Iceland, SPIE |
| Organizer | NASA Hubble Fellowship Symposium , Space Telescope Science Institute, September, 2022 Emerging Researchers in Exoplanet Science I, IV, V , Penn State 2015, 2018, Princeton 2021 Extreme Solar Systems IV , Reykjavík, Iceland, August, 2019 Extreme Precision Radial Velocities IV , Penn State, August 14-17, 2017 |

SELECT DIVERSITY, EQUITY, AND INCLUSION

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| NHFP Mentoring Program | Mentored a single student from an institution with little access to NHFP Fellows (application/talk feedback, research program design etc.) |
| Princeton Mentoring Program | Mentored a graduate student as part of the Department Climate Committee |
| Career Panel Moderator | Career Panels for jobs beyond academia (ERES V, 2021; 2022 NHFP Symposium) |
| DEI Session Co-Organizer | Session on best practices on Diversity, Inclusion and Bystander Intervention |

List of Publications — Guðmundur Stefánsson

70 Total, 52 Peer Reviewed Papers, 1 in Nature.

1st Author (10 Total, 8 Peer Reviewed)

10. [Stefánsson et al. 2022, ApJL ApJL, 931, 15,](#)
The Warm Neptune GJ 3470b has a Polar Orbit.
9. [Stefánsson, et al. 2020, AJ, 160, 6,](#)
A Mini-Neptune and a Radius-Valley-Planet Orbiting the Nearby M2 dwarf TOI-1266 in its Venus-Zone: Validation with the Habitable-zone Planet Finder.
8. [Stefánsson, et al. 2020, AJ, 160, 192,](#)
The Habitable-zone Planet Finder Reveals A High Mass and a Low Obliquity for the Young Neptune K2-25b.
7. [Stefánsson, et al. 2020, AJ, 159, 100,](#)
A sub-Neptune sized planet transiting the M2.5-dwarf G 9-40: Validation with the Habitable-zone Planet Finder.
6. [Stefánsson, et al. 2018, AJ, 156, 266,](#)
Diffuser-assisted Photometric Follow-up Observations of the Neptune-sized Planets K2-28b and K2-100b.
5. [Stefánsson, et al. 2018, SPIE Conference Series, Vol. 10702,](#)
Extreme precision photometry from the ground with beam-shaping diffusers for K2, TESS, and beyond.
4. [Stefánsson, et al. 2017, ApJ 848, 9,](#)
Toward Space-like Photometric Precision from the Ground with Beam-shaping Diffusers.
3. [Stefánsson, et al. 2016, ApJ 833, 175,](#)
A Versatile Technique to Enable Sub-milli-Kelvin Instrument Stability for Precise Radial Velocity Measurements: Tests with the Habitable-zone Planet Finder.
2. [Stefánsson, et al. 2016, SPIE Conference Series, 9908, 990871,](#)
Ultra-stable temperature and pressure control for the Habitable-zone Planet Finder spectrograph.
1. [Stefánsson, et al. 2011, Raust, 8, 1,](#)
Sambætting vökvarása og ljósrása á örflögum (English: Fabrication of integrated optical and microfluidic devices).

2nd and 3rd Author (18 Total, 15 Peer Reviewed)

18. [Harman, Kopparapu, Stefánsson et al. 2021, PSJ, 3, 45](#)
A Snowball in Hell: The Potential Steam Atmosphere of TOI-1266c
17. [Vissapragada, Stefánsson, Greklek-McKeon et al. 2021, AJ, 162, 222](#)
A Search for Planetary Metastable Helium Absorption in the V1298 Tau System.
16. [Kanodia, Stefánsson, Cañas et al. 2021, AJ, 162, 135,](#)
TOI-532b: The Habitable-zone Planet Finder confirms a Large Super Neptune in the Neptune Desert orbiting a metal-rich M dwarf host.
15. [Krishnamurthy, Hirano, Stefánsson et al. 2021, AJ, 162, 82,](#)
Non-detection of Helium in the upper atmospheres of TRAPPIST-1b, e and f.
14. [Lubin, Robertson, Stefánsson et al. 2021, AJ 162, 61,](#)
Stellar Activity Manifesting at a One Year Alias Explains Barnard b as a False Positive.

13. [Mahadevan, Stefánsson, Robertson et al. 2021, ApJL, 919, 9,](#)
The Habitable-zone Planet Finder Detects a Terrestrial-mass Planet Candidate Closely Orbiting Gliese 1151: The Likely Source of Coherent Low-frequency Radio Emission from an Inactive Star.
12. [Cañas, Stefánsson, Kanodia, et al. 2020, AJ, 160, 147,](#)
A warm Jupiter transiting an M dwarf: A TESS single transit event confirmed with the Habitable-zone Planet Finder.
11. [Kanodia, Cañas, Stefánsson et al. 2020, ApJ, 899, 29,](#)
TOI-1728b: The Habitable-zone Planet Finder confirms a warm super Neptune orbiting an M dwarf host.
10. [Robertson, Stefánsson, Mahadevan, et al. 2020, ApJ, 897, 125,](#)
Persistent starspot signals on M dwarfs: multi-wavelength Doppler observations with the Habitable-zone Planet Finder and Keck/HIRES.
9. [Ninan, Stefánsson, Mahadevan, et al. 2020, ApJ, 894, 97,](#)
Evidence for He I 10830 Å absorption during the transit of a warm Neptune around the M-dwarf GJ 3470 with the Habitable-zone Planet Finder.
8. [Ninan, Mahadevan, Stefánsson et al. 2019, ISPA 2018,](#)
Impact of crosshatch patterns in H2RGs on high precision radial velocity measurements: Exploration of measurement and mitigation paths with HPF.
7. [Kanodia, Wolfgang, Stefánsson, et al. 2019, ApJ 882, 38,](#)
Mass-Radius relationship for M dwarf exoplanets: Comparing nonparametric and parametric methods.
6. [von Essen, Stefánsson, Mallon, et al. 2019, A&A, 628, 11,](#)
First Light of Engineered Diffusers at the Nordic Optical Telescope Reveal Time Variability in the Optical Eclipse Depth of WASP-12b.
5. [Cañas, Stefánsson, Monson, et al. 2019, ApJL 877, 29,](#)
TOI-150: A transiting hot Jupiter in the TESS southern CVZ.
4. [Robertson, T. Anderson, G. Stefánsson, et al. 2019, JATIS, 015003,](#)
Ultrastable environment control for the NEID spectrometer: design and performance demonstration.
3. [Li, Stefánsson, Robertson, et al. 2017, RNAAS, 1, 49,](#)
A Candidate Transit Event around Proxima Centauri.
2. [Bender, Robertson, Stefánsson et al. 2016, SPIE, 9913, 991338,](#)
The instrument control software package for the Habitable-Zone Planet Finder spectrometer.
1. [Slovinsky, Stefánsson, Kossoy et al. 2013, Plasmonics 8.4, 1613,](#)
Propagation Loss of Long-Range Surface Plasmon Polariton Gold Stripe Waveguides in the Thin-Film Limit.

Other Coauthor (42 Total, 29 Peer Reviewed, 1 in review)

42. [Kanodia \(including Stefánsson\) et al. 2022, ApJ \(in review\)](#)
TOI-5205b: A Jupiter transiting an M dwarf near the Convective Boundary
41. [Gupta \(including Stefánsson\) et al. 2022, AJ \(accepted\)](#)
Detection of p-mode Oscillations in HD 35833 with NEID and TESS
40. [Chaturvedi \(including Stefánsson\) et al. 2022, A&A \(accepted\)](#)
TOI-1468: A system of two transiting planets, a super-Earth and a mini-Neptune, on opposite sides of the radius valley
39. [Rice \(including Stefánsson\) et al. 2022, AJ, 164, 104](#)
A Tendency Toward Alignment in Single-star Warm-Jupiter Systems

38. [Beard \(including Stefánsson\) et al. 2022, ApJ, 936, 55](#)
GJ 3929: High Precision Photometric and Doppler Characterization of an Exo-Venus and its Hot, Mini-Neptune-mass Companion
37. [Dong \(including Stefánsson\) et al. 2022, ApJ, 926, 7](#)
NEID Rossiter-McLaughlin Measurement of TOI-1268b: A Young Warm Saturn Aligned with Its Cool Host Star
36. [Gupta \(including Stefánsson\) et al. 2022, SPIE, 12189, 20](#)
Real-time exposure control and instrument operation with the NEID spectrograph GUI
35. [Seifahrt \(including Stefánsson\) et al. 2022, SPIE, 12184, 15](#)
MAROON-X: the first two years of EPRVs from Gemini North
34. [Ghosh \(including Stefánsson\) et al. 2022, ApJ, 926, 68](#)
Gaia 20eae: A Newly Discovered Episodically Accreting Young Star
33. [Kanodia \(including Stefánsson\) et al. 2022, AJ, 164, 81](#)
TOI-3757 b: A Low-density Gas Giant Orbiting a Solar-metallicity M Dwarf
32. [Reefe \(including Stefánsson\) et al. 2022, AJ, 163, 269](#)
A Close-in Puffy Neptune with Hidden Friends: The Enigma of TOI 620
31. [Beard \(including Stefánsson\) et al. 2022, AJ, 163, 286](#)
TOI-1696 and TOI-2136: Constraining the Masses of Two Mini-Neptunes with the Habitable-Zone Planet Finder
30. [Caballero \(including Stefánsson\) et al. 2022, A&A, 665, 120](#)
A detailed analysis of the Gl 486 planetary system
29. [Schutte \(including Stefánsson\) et al. 2022, AJ, 164, 14](#)
Modeling Stellar Surface Features on a Subgiant Star with an M-dwarf Companion
28. [Winters \(including Stefánsson\) et al. 2022, AJ, 163, 168](#)
A Second Planet Transiting LTT 1445A and a Determination of the Masses of Both Worlds
27. [Cañas \(including Stefánsson\) et al. 2022, AJ, 164, 50](#)
TOI-3714 b and TOI-3629 b: Two Gas Giants Transiting M Dwarfs Confirmed with the Habitable-zone Planet Finder and NEID
26. [Terrien \(including Stefánsson\) et al. 2022, ApJ, 927, 11](#)
Rotational Modulation of Spectroscopic Zeeman Signatures in Low-mass Stars
25. [Lin \(including Stefánsson\) et al. 2022, AJ, 163, 184](#)
Observing the Sun as a star: Design and early results from the NEID solar feed
24. [Wang \(including Stefánsson\) et al. 2022, ApJL, 926, 8](#)
SOLES II: The Aligned Orbit of WASP-148b, the Only Known Hot Jupiter with a Nearby Warm Jupiter Companion, from NEID and HIRES.
23. [Bouma \(including Stefánsson\) et al. 2022, AJ, 163, 121](#)
A 38 Million Year Old Neptune-Sized Planet in the Kepler Field
22. [Cañas \(including Stefánsson\) et al. 2022, AJ, 163, 3](#)
A Hot Mars-sized Exoplanet Transiting an M Dwarf
21. [Cañas \(including Stefánsson\) et al. 2022, AJ, 163, 89](#)
An eccentric Brown Dwarf eclipsing an M dwarf
20. [Kanodia \(including Stefánsson\) et al. 2022, ApJ, 925, 155](#)
High Resolution Near-infrared Spectroscopy of a Flare around the Ultracool Dwarf vB 10
19. [Terrien \(including Stefánsson\) et al. 2021, AJ, 161, 252](#)
Broadband Stability of the Habitable Zone Planet Finder Fabry-Pérot Etalon Calibration System: Evidence for Chromatic Variation.
18. [Kanodia \(including Stefánsson\) et al. 2021, ApJ, 912, 15](#)
A Harsh Test of Far-field Scrambling with the Habitable-zone Planet Finder and the Hobby-Eberly Telescope.

17. [Tran \(including Stefánsson\) et al. 2021, AJ, 161, 173.](#)
The Epoch of Giant Planet Migration Planet Search Program. I. Near-Infrared Radial Velocity Jitter of Young Sun-like Stars.
16. [Gupta \(including Stefánsson\) et al. 2021, AJ, 161, 130.](#)
Target Prioritization and Observing Strategies for the NEID Earth Twin Survey.
15. [Seifahrt \(including Stefánsson\) et al. 2020, SPIE, 11447](#)
On-sky commissioning of MAROON-X: A new precision radial velocity spectrograph for Gemini North.
14. [Schwab \(including Stefánsson\) et al. 2020, SPIE, 11447.](#)
The NEID spectrometer: fibre injection system design.
13. [Kanodia \(including Stefánsson\) et al. 2020, SPIE, 11447.](#)
Ghosts of NEID's past.
12. [Hoadley \(including Stefánsson\) et al. 2020, Nature, 587, 387-391.](#)
A blue ring nebula from a stellar merger several thousand years ago.
11. [Obermeier \(including Stefánsson\) et al. 2020, A&A, 639, 130.](#)
Following the TraCS of exoplanets with Pan-Planets: Wendelstein-1b and Wendelstein-2.
10. [Roy \(including Stefánsson\) et al. 2020, AJ, 159, 161.](#)
Solar Contamination in Extreme-precision Radial-velocity Measurements
9. [Lam \(including Stefánsson\) et al. 2020, AJ, 159, 120.](#)
It takes two planets in resonance to tango around K2-146.
8. [Metcalf \(including Stefánsson\) et al. 2019, Optica, 6, 233.](#)
Stellar Spectroscopy in the Near-infrared with a Laser Frequency Comb.
7. [Kanodia \(including Stefánsson\) et al. 2018, SPIE, 10702.](#)
Overview of the spectrometer optical fiber feed for the habitable-zone planet finder.
6. [Ninan \(including Stefánsson\) et al. 2018, SPIE, 10709.](#)
The Habitable-Zone Planet Finder: improved flux image generation algorithms for H2RGs
5. [Halverson \(including Stefánsson\) et al. 2016, SPIE 9908, 99086.](#)
A comprehensive radial velocity error budget for next generation Doppler spectrometers.
4. [Robertson \(including Stefánsson\) et al. 2016, SPIE, 9908, 990862.](#)
A system to provide sub-milliKelvin temperature control at T 300K for extreme precision optical radial velocimetry.
3. [Schwab \(including Stefánsson\) et al. 2016, SPIE, 9912, 991274.](#)
Adaptive optics fed single-mode spectrograph for high-precision Doppler measurements in the near-infrared.
2. [Hearty \(including Stefánsson\) et al. 2014, SPIE, 9147, 914752.](#)
Environmental control system for Habitable-zone Planet Finder (HPF).
1. [Mahadevan \(including Stefánsson\) et al. 2014, SPIE, 9147.](#)
The Habitable-zone Planet Finder: A status update on the development of a stabilized fiber-fed near-infrared spectrograph for the Hobby-Eberly telescope.