

Curriculum Vitae

Sasha Hinkley

Personal Information

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Citizenship: United States

Career Summary

As a Professor of Physics & Astronomy at the University of Exeter, I use leading ground- and space-based observatories with the goal of obtaining direct images and spectroscopy of extrasolar planetary systems. Specifically, during my PhD training, and while a NASA Sagan and an NSF Postdoctoral Fellow at the California Institute of Technology, I was an active developer and user of instrumentation for Palomar and Keck Observatories dedicated for this task. Since 2016, I have been leading, organising, and managing a team of 120 international astronomers to be among the first users of JWST, and I am the Principal Investigator for our approved 55-hour Early Release Science program and programs in Cycles 1 and 2.

Education

Ph. D. in Astronomy & Astrophysics, with distinction. **Columbia University, New York**
Title: “High Contrast Imaging with Coronagraphy & Integral Field Spectroscopy.” Advisor: Rebecca Oppenheimer. Jun 2009

M. Phil. in Astronomy & Astrophysics. **Columbia University, New York**

M. S. in Physics. **University of California, Santa Cruz**

B. A. in Physics. **Reed College, Portland, OR**

Current Position

University of Exeter
Professor and Personal Chair, Department of Physics & Astronomy Aug 2024-present

Previous Positions

University of Exeter
Associate Professor, Department of Physics & Astronomy Sep 2018-Aug 2024

University of Exeter
Senior Lecturer, Department of Physics. Jun 2014-Sep 2018

California Institute of Technology
NSF Astronomy & Astrophysics Prize Postdoctoral Fellowship. Sep 2012-May 2014
Faculty sponsor: Prof. Lynne A. Hillenbrand.

California Institute of Technology
Sagan Prize Postdoctoral Fellowship. Sep 2009-Aug 2012
Faculty sponsor: Prof. Lynne A. Hillenbrand.

Columbia University
Ph.D. Thesis Research. Advisor: Prof. Rebecca Oppenheimer. Sep 2004–June 2009

American Museum of Natural History
Research Associate: HST Survey for Cataclysmic Variables. Nov 2001–Aug 2004

Jet Propulsion Laboratory
Keck/IRTF Infrared Remote Sensing of Planetary Atmospheres. Jun-Aug 1997
Advisor: Dr. Glenn S. Orton, JPL. Jun-Aug 1996

Fellowships & Awards

Beatrice M. Tinsley Visiting Scholar, University of Texas, Austin.	2023
“Best Undergraduate Supervisor” University-wide Teaching Award.	2018
Phillip Leverhulme Prize (Exeter University Nominee only).	2018
Leverhulme Trust Research Leadership Award (Exeter Univ. Nominee only).	2016
NSF Astronomy & Astrophysics Prize Fellowship.	2012-2014
Townes Prize Postdoctoral Fellowship, UC Berkeley (declined).	2012
Keck Institute for Space Studies Postdoctoral Fellowship (declined).	2012
CRAQ Fellowship, Université de Montréal (declined).	2012
NASA Sagan Prize Postdoctoral Fellowship.	2009-2012
NASA Postdoctoral Program Fellowship (declined).	2009
NSF Astronomy & Astrophysics Prize Fellowship (declined).	2009

Approved Research Grants

STFC Small Award, Principal Investigator.	£531k, Apr 2024
JWST Cycle 2 GO award, Principal Investigator.	\$128k, Oct 2023
JWST Cycle 1 GO award, Principal Investigator.	\$134k, Jan 2022
Science & Technology Facilities Council Consolidated Grant.	£473k, Feb 2021
JWST Early Release Science Program, Principal Investigator.	\$796k, Jun 2018
Science & Technology Facilities Council Consolidated Grant.	£76k, Feb 2015
NSF Astronomy & Astrophysics Prize Fellowship.	\$305k, Jan 2012
NASA Sagan Prize Fellowship.	\$295k, Jan 2009

Leadership & Management

JWST Early Release Science Program (Principal Investigator)

I am leading one of the 13 JWST Early Release Science Programs to gather some of the first images and spectra of extrasolar planetary systems redward of $3\mu\text{m}$ using 55 hours of STScI Director's Discretionary Time. Our consortium consists of ~120 astronomers from the U.S. (45%), Europe (30%), the United Kingdom (15%), as well as Australia, Canada and Japan (~10%). **2016-present**

Lead, METIS UK Science Team

As the UK METIS Science Team Lead, I have the task of optimising the science return from METIS GTO time for the UK community, by balancing the UK's investment in the planned GTO programs and representing the UK science interests within system level science team meetings. **2024-present**

Physics Employability Officer

As the physics employability officer, I am leading an analysis to understand how our Physics graduates attain professional level employment after Exeter. I am also analyzing the relations between our employability track records and the socioeconomic profiles of our students. **2022-present**

Review Panels & Committees

Panel Vice-Chair, JWST Time Allocation Committee	2025
Physics Equity, Diversity and Inclusion Working Group	present
NASA Hubble Fellowship Program Selection Committee.	2021
Hubble Space Telescope Allocation Committee.	2016
NASA Exoplanet Research Program (XRP) Selection Committee.	2015
STFC Rutherford Fellowship Reviewer.	2014
Panel Chair, NASA Exoplanets Keck Telescope Allocation Committee.	2014
NASA Keck Telescope Allocation Committee.	2013
Caltech Telescope Allocation Committee.	2011 & 2012
NSF Astronomy & Astrophysics Program Review Panel.	2010, 2011, 2012 & 2014
Referee for: <i>The Astrophysical Journal</i> , <i>Astronomy & Astrophysics</i> .	2010-present

Major Collaborations

JWST Early Release Science Program (Principal Investigator)	55 hours of STScI Director's Discretionary Time, ~120 Collaborators.	2015-present
ExoGRAVITY (VLT)	I am a member of the ExoGRAVITY Consortium to obtaining ultra-high precision VLT-GRVITY exoplanet spectra & astrometry.	2019-present
METIS (ELT)	I am the UK Science Team Lead for METIS, the first-light instrument for the 39m Extremely Large Telescope.	2017-present
Gemini Planet Imager Campaign	<i>Primary Collaborators:</i> Bruce Macintosh (UCSC), & ~60 additional members	2011-2018
Palomar Project 1640 Campaign	<i>Primary Collaborators:</i> Rebecca Oppenheimer (AMNH) Lynne Hillenbrand (Caltech), Charles Beichmann (JPL).	2005-2012

Invited Review Chapters & Articles

5. <i>Contemporary Physics: "Exoplanets: Results from JWST"</i>	Review Article, Dec 2023
4. <i>The Spectator: "The James Webb Space Telescope & the Search for Life in the Universe"</i>	Contributed Article, Mar 2023
3. "ExoFrontiers: Big Questions in ExoPlanetary Science." Edited by Nikku Madhusudhan, Published by the IoP	Review Chapter, Jul 2021
2. IAU Symposium 282: "Adaptive Optics Observations of Exoplanets, Brown Dwarfs, and Binary Stars."	Review Article, Jul 2011
1. <i>Annual Reviews of Astronomy & Astrophysics</i>	Review Chapter, Jul 2009

Track Record for Major Observatories

<i>For the past 15 years, I have used numerous observing facilities at the observatories below, using the corresponding listed instruments.</i>		
James Webb Space Telescope	Early Release Science Program (DDT), 55-hours as PI.	NIRCAM/NIRSPEC/NIRISS/MIRI
James Webb Space Telescope	Cycle 2 General Observer Program, 25-hours as PI.	NIRCam
	Cycle 1 General Observer Program, 25-hours as PI.	MIRI
Very Large Telescope (VLT)	~6 nights as PI.	SPHERE, GRAVITY
W. M. Keck Observatory	~25 nights as PI.	NIRC2 NGS/LGS AO, HIRES.
Palomar Observatory	~16 nights as PI.	Project 1640 IFS+Coronagraph, PHARO, WIRC.
Hubble Space Telescope:		WFPC2, NICMOS, STIS.

Invited Talks to Internationally Established Research Conferences

13. IoA at 50 Years: New Frontiers of Astronomy	Cambridge University, UK.	Jul 2024
12. Plenary Talk, UK National Astronomy Meeting (NAM)	Hull, UK.	Jul 2024
11. Preparing for First Light of the Extremely Large Telescope	Padova, Italy.	Jul 2024
10. Formation of Giant Exoplanets: Models and Observations	Padova, Italy.	Jul 2024
9. VLT in the Era of ALMA, JWST and ELT	Padova, Italy.	Jul 2024
8. From First Light to New World Views with JWST, Pontifical Academy of Sciences	Vatican City, Italy.	Feb 2024
7. Past, Present, & Future of Astrophysical Spectroscopy	Trieste, Italy.	Jun 2022
6. European Astronomical Society Meeting	Virtual.	Jun 2021
5. Rocky Exoplanets in the Era of JWST	NASA GSFC, USA.	Nov 2019
4. In the Spirit of Lyot	Tokyo, Japan.	Oct 2019
3. Kavli ExoFrontiers Symposium	Cambridge, UK.	Jul 2019
2. European Astronomical Society (EAS) Meeting	Lyon, France.	Jun 2019
1. European Astronomical Society (EAS) Meeting	Liverpool, UK.	Apr 2018

Departmental Colloquia

32. Queen Mary University London	Department Colloquium, Apr 2024
31. University College London	Department Colloquium, Oct 2023
30. Max Planck Institut für Astronomie	Königstuhl Colloquium, Sep 2023
29. University of Texas, Austin	Astronomy Department Colloquium, Apr 2023
28. Rutgers University	Astronomy Department Colloquium, Mar 2023
27. McMaster University	Astronomy Department Colloquium, Mar 2022
26. Univ. of Toronto, Mississauga	Physical Sciences Department Colloquium, Mar 2022
25. AMNH	Frontiers in Astrophysics Invited Lecture, Nov 2021
24. University College London	Astronomy Department Colloquium, Apr 2017
23. Warwick University	Astronomy Department Colloquium, May 2016
22. ETH-Zurich	Astronomy Department Colloquium, Apr 2016
21. Keele University	Astronomy Department Colloquium, Dec 2015
20. University of Edinburgh	Royal Observatory of Edinburgh Colloquium, Oct 2015
19. Leiden University	Astronomy Department Colloquium, Mar 2015
18. Hertfordshire University	Astronomy Department Colloquium, Feb 2015
17. University of Washington	Astronomy Department Colloquium, Feb 2014
16. University of Minnesota	Astronomy Department Colloquium, Nov 2013
15. Univ. of Toronto/Dunlap Institute	Astronomy Department Colloquium, Feb 2013
14. UC Santa Cruz	Astronomy Department Colloquium, May 2012
13. California Institute of Technology	Planetary Science Colloquium, Apr 2012
12. MIT	Earth & Planetary Sciences Colloquium, Apr 2012
11. UC Riverside	Astronomy Department Colloquium, Apr 2012
10. Northern Arizona University	Astronomy Department Colloquium, Jan 2012
9. Université de Montréal	Physics Department Colloquium, Dec 2011
8. University of Hawaii	Institute for Astronomy Colloquium, Nov 2011
7. Yale University	Yale Center for Astronomy & Astrophysics Colloquium, Nov 2011
6. Carnegie DTM	Department Colloquium, Oct 2011
5. IAU Symposium 282	Invited Review, Jul 2011
4. NASA Ames Research Center	Center for Exoplanet Studies Colloquium, Jun 2011
3. UCLA	Astronomy Colloquium, May 2011
2. Pomona College	Astronomy Colloquium, Oct 2010
1. Jet Propulsion Laboratory	Exoplanet Science Colloquium, Sep 2010

Oral Presentations at Professional Meetings

36. First Year of JWST Science	Baltimore, USA. Sep 2023
35. Science with the Habitable Worlds Observatory	Baltimore, USA. Jul 2023
34. 241 st Meeting of the American Astronomical Society	Seattle, USA. Jan 2023
33. Exoplanets & Disks Across ESO Facilities	Garching, Germany. Nov 2022
32. Celebrating the First Six Months of JWST Data	Ringberg, Germany. Nov 2022
31. Towards the Comprehensive Characterization of Exoplanets	Baltimore. Apr 2021
30. Extreme Solar Systems IV	Reykjavik, Iceland. Aug 2019
29. UK Exoplanets Community Meeting	London, UK. Apr 2019
28. RAS High Resolution Astronomy Meeting	London, UK. Feb 2019
27. European Planetary Sciences Congress	Berlin, Germany. Sep 2018
26. IAU General Assembly	Vienna, Austria. Aug 2018
25. Exoplanets 2	Cambridge, UK. Jul 2018
24. Royal Astronomical Society ELT Meeting	London, UK. Jan 2018
23. UK Exoplanets Community Meeting	Oxford, UK. Mar 2018
22. The Migration Issue	Cambridge, UK. May 2017
21. Exoplanets 1	Davos, Switzerland. July 2016
20. SPIE, Sparse Aperture Masking Session	Edinburgh, Scotland. Jun 2016

	19. UK Exoplanet Community Meeting	Exeter, UK. Mar 2016
	18. In the Spirit of Lyot	Montréal, Canada. Jun 2015
	17. 225 th Meeting of the American Astronomical Society	Seattle, USA. Jan 2015
	16. Astronomy at High Angular Resolution	Garching, Germany. Nov 2014
	15. Thirty Years of β Pic & Debris Disk Studies	Paris, France. Sep 2014
	14. Characterizing Planetary Systems Across the HR Diagram	Cambridge, UK. Aug 2014
	13. UK Exoplanet Community Meeting	Cambridge, UK. Apr 2014
	12. Exoplanet Observations with the E-ELT	Garching, Germany. Feb 2014
	11. 223 rd Meeting of the American Astronomical Society	Washington DC, USA. Jan 2014
	10. Exoplanets & Disks: Their Formation & Diversity	Kona, USA. Dec 2013
	9. 221 st Meeting of the American Astronomical Society	Long Beach, USA. Jan 2013
	8. NSF AAPF Fellows Symposium	Pasadena, USA. Jan 2013
	7. NASA Sagan Fellows Symposium	Pasadena, USA. Nov 2012
	6. Palomar Science Meeting	Pasadena, USA. Nov 2012
	5. 219 th Meeting of the American Astronomical Society	Austin, USA. Jan 2012
	4. W.M. Keck Observatory Science Meeting	Pasadena, USA. Sep 2011
	3. 217 th Meeting of the American Astronomical Society	Seattle, USA. Jan 2011
	2. Single Photon Counting Detectors	Pasadena, USA. Jan 2010
	1. NASA Sagan Fellows Symposium	Pasadena, USA. Nov 2009
Posters at Professional Meetings	5. Cool Stars 20	Cambridge, USA. Jul 2018
	4. Exploring the Formation & Evolution of Planets	Victoria, Canada. June 2013
	3. Signposts of Planets	NASA GSFC, USA. Oct 2011
	2. Exploring Strange New Worlds	Flagstaff, USA. May 2011
	1. 215 th Meeting of the AAS	Washington DC, USA. Jan 2010
Department Seminars	8. Oxford University	Astronomy Department Seminar, Jan 2020
	7. University of Exeter	Astronomy Department Seminar, June 2013
	6. MIT	MIT Physics Lunch Seminar, Nov 2011
	5. Harvard-Smithsonian CfA	Solar, Stellar & Planetary Seminar, Oct 2011
	4. The Carnegie Observatories	The Carnegie Observatories Lunch Seminar, May 2011
	3. University of Michigan	Astronomy Lunch Seminar, Feb 2010
	2. Princeton University	High Contrast Imaging Seminar, Dec 2010
	1. UC Berkeley	Center for Adaptive Optics Seminar, Oct 2009
Teaching & Instruction	Course Lead: "Observing the Universe"	Jan 2016-present
	I teach a comprehensive course for 2 nd -year Physics Students covering a variety of aspects of observational astronomy, as well as numerous aspects of astrophysical measurement.	
	Tutor	Sep 2016-present
	I annually serve as academic tutor for 10-15 first-year Physics students, providing weekly academic guidance for their physics coursework.	
	Course co-lead: Practical Physics II	Sep 2018-present
	A hands-on laboratory course for second-year physics students focussed on developing a wide range of experimental skills introducing more advanced equipment and data analysis.	
	Course co-lead: Practical Physics I	Sep 2015-present
	A hands-on laboratory course for first-year physics students	

providing a broad foundation in experimental physics, the theory of measurement, as well as preparing oral presentations.

Course co-lead: IT & Astrophysics Skills

Jan 2017-2022

A course introducing first-year physics students to computer-aided analysis of modern astrophysical data, gaining an understanding of the basic properties of digital imaging and spectroscopy.

Supervision & Mentorship

Vito Squicciarini , Exeter Astronomy Postdoctoral Fellow. Will serve as primary Postdoc supervisor.	Jan 2025 - Jan 2028
Cecillia Lazzoni , Exeter Astronomy Postdoctoral Fellow. Currently serving as primary Postdoc supervisor.	Sep 2021 - Apr 2024
Andrew James , Exeter Astronomy PhD Student. Currently serving as primary PhD supervisor.	Sep 2023 - present
Shrishmoy Ray , Currently a Postdoc at University of Queensland Served as primary PhD supervisor.	Sep 2019 - Jul 2023
Aarynn Carter , Currently a UCSC Postdoctoral Fellow. Served as primary PhD supervisor at Exeter.	Sep 2016 - Apr 2020
Elisabeth Matthews , Currently a Postdoctoral Fellow at MPIA Served as primary PhD supervisor.	Sep 2014 - Jun 2018
Exeter Masters Degree Students (30 total): Alex Edwards, Toby Dawson, Hannah Osborne, Jack Shone, Ben Sutcliffe, Emma Bubb, Thomas Wilson, Daniel Gardner, Scott Huson, Daniel Payne, Samuel Treves, Yee Shan Lau, James Davies, Brendan Wilby, Jorge Fernandez Fernandez, Sophia Stasevic, Elise Evans, Katie Milsom, Jake Harkett, Ben Godson, Natalie Seal, Tom Mansfield, Tom Debney, Huw Davies, Andrew James, George Mather, Matthew Hine, Bryce Dixon, Theo Clements, Scott Shier.	Jan 2016 - present

PhD Examinations

14. PhD Examiner for Celia Degrange, Institut de Planétologie et d'Astrophysique de Grenoble, France.	Sep 2024
13. PhD Examiner for Sophia Vaughan, Oxford University, UK.	Sep 2024
12. PhD Examiner for Michelle Bieger, Exeter University, UK	Dec 2023
11. PhD Examiner for Chen Xie, Laboratoire d'Astrophysique Marseille, France.	Sep 2023
10. PhD Examiner for Sebastian Zarilli, Exeter University, UK.	Feb 2023
9. PhD Examiner for Polychronis Patapis, ETH Zurich.	Dec 2022
8. PhD Examiner for Mark Phillips, Exeter University, UK.	Jul 2020
7. PhD Examiner for Jayesh Goyal, Exeter University, UK.	Jul 2019
6. PhD Examiner for Rupert Dodkins, Oxford University, UK.	Oct 2018
5. PhD Examiner for Christopher Mowat, Exeter University, UK.	Jul 2018
4. PhD Examiner for Matthew Read, Cambridge University, UK.	May 2018
3. PhD Examiner for Faustine Cantalloube, Institut de Planétologie et d'Astrophysique de Grenoble, France.	Sep 2016
2. PhD Examiner for Alice Zurlo, Laboratoire d'Astrophysique de Marseille, France.	Jun 2016
1. PhD Examiner for Hannah Wakeford, Exeter University.	May 2015

List of Publications

Sasha Hinkley

Summary of Publications

All publication metrics are taken from Google Scholar, and my profile is public.

Refereed Publications: 121 Total citations: 8,108
First-Author Refereed Publications: 14 h-index: 50

Noteworthy Refereed Publications

7. **S. Hinkley**, S. Lacour, G. D. Marleau, A. M. Lagrange, and 110 additional co-authors. 2023. *Astronomy & Astrophysics*, 671, L5, "Direct Discovery of the Inner Exoplanet in the HD 206893 System: Evidence for deuterium burning in a planetary-mass companion." 36 citations
6. **S. Hinkley**, A. L. Carter, and 87 additional co-authors. 2022 *Publications of the Astronomical Society of the Pacific*, 134, 095003, "The JWST Early Release Science Program for the Direct Imaging and Spectroscopy of Exoplanetary Systems" 60 citations
5. T. J. David, L. A. Hillenbrand, E. A. Petigura, J. M. Carpenter, I. J. M. Crossfield, **S. Hinkley** and seven additional co-authors. 2016. *Nature*, 534, 658. "A Neptune-sized transiting planet orbiting a 5-10 Million-year-old star." 223 citations
4. **S. Hinkley**, B. R. Oppenheimer, et al. 2011. *Publications of the Astronomical Society of the Pacific*, 123, 74. "A New High Contrast Imaging Program at Palomar Observatory." 199 citations
3. **S. Hinkley**, et al. 2009. *The Astrophysical Journal*, 701, 804. "Speckle Suppression Through Dual Imaging Polarimetry, & a Ground-based Image of the HR 4796A Circumstellar Disk." 117 citations
2. B. R. Oppenheimer & **S. Hinkley**. 2009. *Annual Reviews of Astronomy & Astrophysics*, 47, 253. "High-Contrast Observations in Optical & Infrared Astronomy." 135 citations
1. **S. Hinkley**, et al. 2007. *The Astrophysical Journal*, 654, 633. "Temporal Evolution of Coronagraphic Dynamic Range, & Constraints on Companions to Vega." 170 citations

Additional Refereed Papers

114. J. Xuan, A. Merand, W. Thompson, and 97 additional co-authors . 2024 *Accepted to Nature* "The cool brown dwarf Gliese 229B is a close binary"
113. N. Godoy, E. Choquet, E. Serabyn, C. Danielski, T. Stolker, B. Charnay, **S. Hinkley**, et al. 2024 *Astronomy & Astrophysics*, 689, 185 "A New Atmospheric Characterization of the Sub-Stellar Companion HR 2562B with JWST/MIRI Observations"
112. T. Winterhalder, S. Lacour, A. Merand, and 97 additional co-authors . 2024 *Astronomy & Astrophysics*, 688, 44 "Combining Gaia and GRAVITY: Characterising five new directly detected substellar companions" 2 citations

111. E. Nasedkin, P. Molliere, S. Lacour, and 95 additional co-authors. 2024 *Astronomy & Astrophysics*, 687, 298 ["Four-of-a-kind? Comprehensive atmospheric characterisation of the HR 8799 planets with VLT/GRAVITY"](#) 6 citations
110. M. Nowak, S. Lacour, R. Abuter, and 96 additional co-authors. 2024 *Astronomy & Astrophysics*, 687, 248 ["Catalogue of dual-field interferometric binary calibrators"](#) 1 citations
109. N. Pourré, T. O. Winterhalder, J.-B. Le Bouquin, and 71 additional co-authors. 2024. *Astronomy & Astrophysics*, 686, 258 ["High contrast at short separation with VLT/GRAVITY: Bringing Gaia companions to light"](#) 4 citations
108. S. Petrus, N. Whiteford, P. Patapis, and 119 additional co-authors. 2024 *The Astrophysical Journal*, 966, 11 ["The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems. V. Do Self-consistent Atmospheric Models Represent JWST Spectra? A Showcase with VHS 1256–1257 b"](#) 10 citations
107. J. Hom, J. Patience, C. H. Chen et al. 2024 *The Astrophysical Journal*, 528, 6959 ["A uniform analysis of debris discs with the Gemini Planet Imager II: constraints on dust density distribution using empirically informed scattering phase functions"](#) 5 citations
106. S. Sallum, S. Ray, J. Kammerer, and 120 additional co-authors. 2024 *arXiv: The Astrophysical Journal*, 963, L2 ["The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems. IV. NIRISS Aperture Masking Interferometry Performance and Lessons Learned"](#) 3 citations
105. K. Crotts, and 37 additional co-authors. 2024 *The Astronomical Journal*, 961, 245 ["A Uniform Analysis of Debris Disks with the Gemini Planet Imager. I. An Empirical Search for Perturbations from Planetary Companions in Polarized Light."](#) 6 citations
104. W. Balmer, L. Pueyo, S. Lacour, and 94 additional co-authors. 2024 *The Astronomical Journal*, 167, 64 ["VLT/GRAVITY Provides Evidence the Young, Substellar Companion HD 136164 Ab Formed Like a "Failed Star""](#) 1 citations
103. C. Lazzoni, K. Rice, A. Zurlo, **S. Hinkley**. 2024 *Monthly Notices of the Royal Astronomical Society*, 527, 3837 ["Binary Planet Formation Through Tides"](#) 5 citations

2023

102. S. Blunt, W. O. Balmer, J. J. Wang, and 96 additional co-authors. 2023 *The Astronomical Journal*, 166, 257 ["First VLT/GRAVITY Observations of HIP 65426 b: Evidence for a Low or Moderate Orbital Eccentricity"](#) 6 citations
101. E. C. Matthews, M. Bonnefoy, C. Xie, and 17 additional co-authors. 2023 *Astronomy & Astrophysics*, 679, 58 ["The first scattered light images of HD 112810, a faint debris disk in the Sco-Cen association"](#)
100. S. Ray, S. Sallum, **S. Hinkley**, and 120 additional co-authors. 2023 *arXiv: 2310.11508*. ["The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems III: Aperture Masking Interferometric Observations of the star HIP 65426 at 3.8 \$\mu\$ m"](#)

99. W. Balmer, L. Pueyo, T. Stolker and 97 additional co-authors. 2023 *The Astrophysical Journal*, 956, 99 "VLTI/GRAVITY Observations and Characterization of the Brown Dwarf Companion HD 72946 B" 6 citations
98. A. L. Carter, **S. Hinkley**, and 107 additional co-authors. 2022. *The Astrophysical Journal*, 951, L20, "The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems I: High Contrast Imaging of the Exoplanet HIP65426 b from 2-16 μm ." 69 citations
97. Miles, B. E., Biller, B. A., P. Patapis, and 108 additional co-authors. 2023 *The Astrophysical Journal*, 946, L6 "The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems II: A 1 to 20 Micron Spectrum of the Planetary-Mass Companion VHS 1256-1257 b" 108 citations
96. S. Ray, **S. Hinkley**, S. Sallum, et al.. 2022, *Monthly Notices of the Royal Astronomical Society* "Detecting Planetary Mass Companions Near the Water Frost Line Using JWST Interferometry." 6 citations
- 2022**
95. I. Snellen, and 64 additional co-authors 2022 *Experimental Astronomy*, 54, 1237 "Detecting life outside our solar system with a large high-contrast-imaging mission" 3 citations
- 94 E. A. Rich, J. D. Monnier, and 18 additional co-authors. 2022. *The Astronomical Journal*, 164, 109 "Gemini-LIGHTS: Herbig Ae/Be and Massive T Tauri Protoplanetary Disks Imaged with the Gemini Planet Imager" 24 citations
- 2021**
93. T. Gardner, J. D. Monnier, F. C. Fekel, M. Williamson, F. Baron, **S. Hinkley**, et al. 2021. *The Astrophysical Journal*, 921, 41. "Establishing α Oph as a Prototype Rotator: Precision Orbit with new Keck, CHARA, and RV Observations" 5 citations
92. M. Bonnefoy, J. Milli, F. Menard, et al. 2021 *Astronomy & Astrophysics*, 655, 62. "Narrow belt of debris around the Sco-Cen star HD141011" 1 citations
91. S. Lacour, J. J. Wang, L. Rodet, et al. 2021. *Astronomy & Astrophysics*, 654, L2. "The mass of β Pictoris c from β Pictoris b orbital motion" 16 citations
90. J. Kammerer, S. Lacour, T. Stolker, P. Mollière, D. K. Sing, et al. 2021. *Astronomy & Astrophysics*, 652, 57. "GRAVITY K-band spectroscopy of HD 206893 B. Brown dwarf or exoplanet?" 7 citations
89. D. Veras & **S. Hinkley** 2021. *Monthly Notices of the Royal Astronomical Society*, 505, 1557. "The post-main-sequence fate of the HR 8799 planetary system" 5 citations
88. **S. Hinkley**, E. C. Matthews, C. Lefevre, J.-F. Lestrade, G. Kennedy, et al. 2021. *The Astrophysical Journal*, 912, 115. "Discovery of an Edge-on Circumstellar Debris Disk around BD+45° 598: A Newly Identified Member of the β Pictoris Moving Group" 13 citations
87. J. J. Wang, A. Vigan, S. Lacour, M. et al. 2021. *The Astronomical Journal*, 161, 148. "Constraining the Nature of the PDS 70 Protoplanets with VLTI/GRAVITY" 109 citations

2020

86. R.G. van Holstein, T. Stolker, R. Jensen-Clem, C. Ginski, J. Milli, J. de Boer, et al. 2021. *Astronomy & Astrophysics*, 647 A21. "A survey of the linear polarization of directly imaged exoplanets and brown dwarf companions with SPHERE-IRDIS. First polarimetric detections revealing disks around DH Tau B and GSC 6214-210 B" 19 citations
85. A. L. Carter, **S. Hinkley**, et al. 2021. *MNRAS*, 501 2021. "Direct Imaging of sub-Jupiter mass exoplanets with James Webb Space Telescope coronagraphy" 45 citations
84. E. C. Matthews, **S. Hinkley**, M. Bonavita et al. 2020. *Astronomical Journal*, 161 78. "Three New Late-Type Stellar Companions to Very Dusty WISE Debris Disks Identified with SPHERE Imaging" 1 citation
83. R. Jensen-Clem, M. A. Millar-Blanchaer, et al. 2020. *Astronomical Journal*, 160, 286. "A Search for Polarized Thermal Emission from Directly Imaged Exoplanets and Brown Dwarf Companions to Nearby Stars" 13 citations
82. M. Nowak, S. Lacour, A.-M. Lagrange et al. 2020. *Astronomy & Astrophysics*, 642 L2. "Direct confirmation of the radial-velocity planet β Pictoris c" 117 citations
81. S. Kraus, A. Kreplin, A. K. Young, M. R. Bate, J. D. Monnier et al. 2020. *Science*, 369 1233. "A triple-star system with a misaligned and warped circumstellar disk shaped by disk tearing" 101 citations
80. P. Mollière, T. Stolker, S. Lacour et al. 2020. *Astronomy & Astrophysics*, 630 A131. "Retrieving Scattering Clouds and Disequilibrium Chemistry in the Atmosphere of HR 8799e" 174 citations
79. S. Kraus, J. B. LeBouquin, A. Kreplin et al. 2020. *Astrophysical Journal Letters*, 897 L8. "Spit-Orbit Alignment of the β Pictoris Planetary System" 11 citations
78. T. M. Esposito, P. Kalas, M. P. Fitzgerald, et al. 2020. *Astronomical Journal*, 160 44. "Debris Disk Results from the Gemini Planet Imager Exoplanet Survey's Polarimetric Imaging Campaign" 105 citations
77. M. A. Millar-Blanchaer, J. H. Girard, T. Karalidi, M. S. Marley et al. 2020. *Astrophysical Journal*, 894 25. "Detection of Polarization due to Cloud Bands in the Nearby Luhman 16 Brown Dwarf Binary" 20 citations
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2. O. F. DeAlcantara-Bonfim, D. J. Griffiths, **S. Hinkley**. 2000. *Journal of Bifurcation & Chaos*, 10, 265. "Chaotic & Hyperchaotic Motion of a Charged Particle in a Magnetic Dipole Field." 15 citations
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**Selected
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8. B. R. Oppenheimer, C. Beichman, D. Brenner, R. Burruss, E. Cady, J. R. Crepp, L. A. Hillenbrand, **S. Hinkley**, and 16 additional co-authors. 2012. *Proceedings of the SPIE*, 8447, 20. "Project 1640: The World's First ExAO Coronagraphic Hyperspectral Imager for Comparative Planetary Science." 64 citations
7. **S. Hinkley**, B. R. Oppenheimer, and 6 additional co-authors. 2008. *Proc. SPIE*, 7015, 19. "A New Integral Field Spectrograph for Exoplanetary Science at Palomar." 59 citations
6. Q. Konopacky, S. Thomas, B. A. Macintosh, D. Dillon, N. Sadakuni, J. Maire, M. Fitzgerald, **S. Hinkley**, and 21 additional co-authors et al. 2014. *Proceedings of the SPIE*, 9147, 84K. "Gemini Planet Imager Observational Calibrations V: Astrometry and Distortion." 72 citations
5. C. Zhai, G. Vasisht, M. Shao, T. Lockhart, E. Cady, B. Oppenheimer, R. Burruss, J. Roberts, C. Beichman, D. Brenner, J. Crepp, R. Dekany, **S. Hinkley**, and 11 additional co-authors 2012. *Proceedings of the SPIE*, 8447, 6W. "A First-Order Wavefront Estimation Algorithm for the P1640 Wave Front Calibration System." 16 citations
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