Thayne Currie – Curriculum Vitae

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Education

Ph.D.	2008 - Astronomy - University of California-Los Angeles Completed at the Harvard-Smithsonian Center for Astrophysics, advisor: Scott Kenyon Thesis Title *Observational Constraints on Circumstellar Disk Evolution and Terrestrial Planet Formation*
M.S.	2004 - Astronomy - University of California-Los Angeles
B.S.	2002 - Physics, Magna Cum Laude, with Honors - Wichita State University

Employment History

2022-Present	Associate Professor, Department of Physics and Astronomy, University of Texas, San Antonio
2018-Present	Affiliated Researcher/Astrophysicist, National Astronomical Observatory of Japan, Subaru Telescope
2018-2022	Senior NASA Postdoctoral Fellow/Astrophysicist, NASA-Ames Research Center
2014- 2018	Astronomer/Subaru Project Fellow, National Astronomical Observatory of Japan, Subaru Telescope
2012-2014	McLean Postdoctoral Fellow, University of Toronto
2009-2012	NASA Postdoctoral Fellow, Goddard Spaceflight Center

Major Research Interests

- High-Contrast Imaging and Spectroscopy of Extrasolar Planets
- Wavefront Control, Post-Processing Algorithms, and Coronagraphy for High-Contrast Imaging

Major Current Research Collaborations

- Subaru Coronagraphic Extreme Adaptive Optics Project (SCExAO; P.I. Olivier Guyon) - Core Team Member/Science Program Lead
- The Observing Accelerators with SCExAO Imaging Survey (OASIS): astrometry-selected direct imaging survey with SCExAO/CHARIS and Keck/NIRC2 (funded by NASA and NSF)
(P.I. Thayne Currie)
- Subaru/SCExAO Intensive Survey for Imaging Planet Formation around Low-Mass stars (P.I. Jun Hashimoto); Companion Survey Imaging Planet Formation around Solar-Mass Stars (P.I. Thayne Currie)
- James Webb Space Telescope, Early Release Science Program for High-Contrast Imaging (P.I. Sasha Hinkley)
- International Science Development Team, *Thirty Meter Telescope* (convener/leader for exoplanets program development)

Awards and Major Published Research Results

- 2025 Research Achievement Award, University of Texas-San Antonio
- Discovery of the first planet (HIP 99770 b) detected using astrometry and direct imaging
- Discovery of AB Aur b: a directly-imaged protoplanet demonstrating planet formation by disk instability
- Discovery of HIP 54515 b, a benchmark superjovian planet detected using astrometry and direct imaging from the OASIS survey
- Discovery of the directly-imaged planets ROXs 42Bb and κ And b
- Laboratory demonstration of Spatial Linear Dark Field Control at contrasts needed to image planets in reflected light
- Discovery of a second candidate planet around HD 100546 (HD 100546 "c")
- Confirmation of HD 95086 b and HD 100546 b as (likely) imaged exoplanets; Refutation of the LkCa 15 bcd protoplanets
- Identifying/characterizing the key physical properties shaping young exoplanet atmospheres, i.e. thick clouds
- Development of the *A-LOCI* image processing pipeline; originator of forward-modeling method for (A-)LOCI for integral field spectrograph data

Technical Experience and Skills

- High-Contrast Imaging/Spectroscopy Data Reduction Packages and Methods
  - *Original pipeline development
    - -Writer of SCExAO/CHARIS High-Contrast IFS Data Processing Pipeline
    - -Writer of General High-Contrast Imaging Pipeline for Ground-Based Telescopes, HST
  - *Advances in PSF Subtraction and Forward-Modeling/Spectral Extraction – A-LOCI
  - *PSF Subtraction and Forward-Modeling/Spectral Extraction with KLIP
  - *End-to-End Data Analysis
- Calibration and Instrument Integration, Optical System Alignment, Testing, and Data Analysis
  - *SCExAO/CHARIS (computer modeling; on laboratory bench; on telescope)
  - *Ames Coronagraph Experiment lab
- Survey Planning (SCExAO/CHARIS)
- Wavefront Control
  - *Original code and research in Linear Dark Field Control; Speckle Nulling
- Coronagraph Characterization
  - *Shaped-pupil, Vector Vortex, Lyot
- Programming Languages and Packages
  - *IDL (expert), Python (advanced), C, IRAF

Current and Recent Funded Grants

2025 (PI, $11 K) NASA/Keck Data Analysis– *SCExAO and NIRC2 Observations of the WISPIT-2 Protoplanet*
2024 (PI, $325 K) NSF-AAG – *A New Kind of Exoplanet Direct Imaging Search: Extreme AO Imaging of Accelerating Stars*
2024 (PI, $110 K) NASA-Keck Strategic Mission Support – *Supporting the Roman Space Telescope by Identifying Key, New Targets for the CGI Technological Demonstration*
2024 (Co-I, $12.3 K) NASA/JWST Cycle 3, Data Analysis – *Imaging Planet Formation at its Earliest Stages: Measuring The Extinction Level of an Enshrouded Protoplanet*
2024 (Co-I, $248 K) NASA-XRP – *Exploring Planet Formation on Solar System Scales with Extreme Adaptive Optics*
2023 (PI, $15.1 K) NASA/Keck Data Analysis– *Thermal IR Characterization of the AB Aurigae b Protoplanet*
2022 (PI, $12.5 K) NASA/Keck Data Analysis – *NIRC2 Imaging of AB Aur b*
Other
2021 (PI, $12 K) NASA/Keck Data Analysis – *Direct Imaging Survey with NIRC2*
2020 (PI, $163 K) – NASA/Hubble Space Telescope, Cycle 28 (Mid-Cycle), Data Analysis – *Confirming a Wide-Separation of a Directly-Imaged Infant Planet around a Young, Dusty Star*
2020 (PI, $37K) – NASA/Keck Data Analysis – *Direct Imaging Survey with NIRC2 and Subaru/SCExAO*
2020 (Co-I, $610K) – NASA-XRP – *Extreme AO Imaging and Integral Field Spectroscopy of Planet-Forming Disks*
2020 (Co-I, $960K) – NASA-Strategic Astrophysics Technology –*Laboratory Demonstration of Multi-Star Wavefront Control in Vacuum*
2019 (Co-I, $500K) – NASA-Strategic Astrophysics Technology –*Linear Wavefront Control for Exoplanet Imaging*
2018 (PI, $400K) – NASA Senior Postdoctoral Fellowship – *Developing and Demonstrating Linear Dark Field Control*
2018 (Co-I, $10K) NASA/JWST Early Release Science Program – *High Contrast Imaging of Exoplanets and Exoplanetary Systems with JWST*
2018 (PI - $20K) – NASA/Keck Data Analysis – *Thermal Infrared Follow-up of Candidate Planets Identified from Subaru/SCExAO*
2017 (PI - $13K) – NASA/Keck Data Analysis – *Shedding Light on the Nature of Candidate Planets around LkCa 15*
2016 (Co-I, $530K) – NASA-XRP – *Exploring the Final Stages of Planet Formation*

Telescope Observing Time Awarded as Principal Investigator

10m Keck I/II (NIRC2, OSIRIS), Hawaii - 20+ nights
8.2m Subaru Telescope (SCExAO/CHARIS, SCExAO/VAMPIRES, SCExAO/HiCIAO, AO188/IRCS, HDS), Hawaii - 60+ nights (90+ nights through other collaborations)
Including 42 nights allocated for a direct imaging survey with SCExAO/CHARIS and Keck/NIRC2 (awarded while at UTSA)
8.2m Very Large Telescope (NaCo), Chile - 5 nights
8.1m Gemini-South (GPI, NICI), Chile - 12+ nights
6.5m MMT (Clio, Hectospec) & 1.5m Whipple Telescope (FAST), Arizona - 15 nights
3m Infrared Telescope Facility (CSHELL), Hawaii - 4 nights
2.4m Hubble Space Telescope - 12 orbits

SELECTED RECENT COLLOQUIA AND RESEARCH TALKS

December 2025 - Colloquium: Department of Physics and Astronomy, University of Notre Dame, Notre Dame, IN
October 2025 - Invited Talk: The SCExAO Intensive Survey for Planets around Accelerating Stars, *Subaru User's Meeting*, Tokyo, Japan
January 2025 - Invited Talk: The SCExAO Intensive Survey for Planets around Accelerating Stars, *Subaru User's Meeting*, Tokyo, Japan
January 2025 - Contributed Talk: The SCExAO Intensive Survey for Planets around Accelerating Stars: First Results, *American Astronomical Society Meeting*, Washington, DC
September 2024 - Invited Talk: Directly Imaging Rocky, Earth-Sized Exoplanets with the US-ELT Program,

at the *US-Japan Conference on Life on Exoplanets: Insights and Future Prospects*, Washington, DC
April 2024 - Colloquium: Department of Physics and Astronomy, New Mexico State University, Las Cruces, NM
April 2024 - Contributed Talk: Discovering and Characterizing Young Gas Giant Planets with Upcoming Extreme AO Systems and ELTs , *Direct Imaging and Characterization of Exoplanets in the ELT Era*, University of Arizona, Tucson, AZ
December 2023 - Colloquium: Department of Physics and Astronomy, University of Nevada-Las Vegas, Las Vegas, NV
October 2023 - Colloquium: Institute for Astronomy, University of Hawaii-Manoa, Honolulu, HI

July 2022 - Invited Talk: High-Contrast Imaging with SCExAO, *Science workshop for synergy of Subaru/SCExAO and ALMA*, Tokyo, Japan (online)
May 2022 - Contributed Talk: The SCExAO Direct Imaging Search for Planets Around Accelerating Stars, *Exoplanets IV*, Las Vegas, NV
August 2021 - Contributed Talk/Paper: A New Type of Exoplanet Direct Imaging Search: a SCExAO/CHARIS survey of Accelerating Stars, *SPIE, Techniques and Instrumentation for Detection of Exoplanets X*, San Diego, CA
April 2021 - Contributed Talk: Direct Imaging and Astrometry Together: Imaging Extrasolar Planets Around Accelerating Stars from SCExAO and Gaia, *Towards the Comprehensive Characterization of Exoplanets: Science at the Interface of Multiple Measurement Techniques*, (remote)
March 2021 - Contributed Talk: Ground-Based Exoplanet Direct Imaging in the Next Decade: The Path to Imaging Another Earth, *Habitable Worlds 2021*, STScI (remote)
March 2021 - Contributed Talk: Sciences Results from SCExAO/CHARIS, *Subaru Users Meeting (remote)*
January 2021 - Contributed Talk: SCExAO/CHARIS Discoveries, *American Astronomical Society Meeting*, Phoenix, Arizona (remote)
December 2020 - Contributed Talk: New Discoveries with SCExAO/CHARIS, *Chesapeake Bay Area Exoplanet Meeting* (remote)
December 2020 - Contributed Talk: SCExAO/CHARIS Direct Imaging of Protoplanet Candidates, *Five Years after HL Tau: A New Era in Planet Formation* (remote)
October 2020 - Contributed Talk: SCExAO Science, *Ground-Based Thermal Infrared Astronomy - Past, Present, and Future*, Santiago, Chile (remote)
October 2020 - Star and Planet Formation Seminar: University of Michigan (remote)
September 2020 - Contributed Talk: SCExAO Science, *Bay Area Exoplanets Meeting*, NASA-Ames Research Center, Mountain View, CA (remote)
May 2020 - Contributed Talk: SCExAO Science, *American Astronomical Society Meeting*, Madison, Wisconsin (remote)
December 2019 - Contributed Talk: Linear Dark Field Control, *Bay Area Exoplanets Meeting*, NASA-Ames Research Center, Mountain View, CA
November 2019 - Contributed Talk: Exoplanet Characterization with Subaru, *Subaru 20th Anniversary Meeting*, Waikaloa, HI
October 2019 - Invited Talk: Exoplanet Direct Imaging Technology Development, *Lyot Conference*, Tokyo, Japan
October 2019 - Colloquium: Department of Astronomy, Indiana University, Bloomington, IN
September 2019 - Colloquium: Department of Physics and Astronomy, University of Texas-San Antonio, San Antonio, TX
August 2019 - Contributed Talk: Linear Dark Field Control, *SPIE*, San Diego, CA
August 2019 - Contributed Talk: SCExAO Instrument Performance, *SPIE*, San Diego, CA
January 2019 - Contributed Talk: SCExAO Exoplanet Characterization, *American Astronomical Society Meeting*, Seattle, WA
December 2018 - Contributed Talk: Imaging Habitable Rocky Planets, *TMT Science Forum*, Pasadena, CA
November 2018 - Colloquium: Department of Physics and Astronomy, University of California-Riverside, Riverside, CA
October 2018 - Colloquium: Department of Physics and Astronomy, California State University-Northridge, Northridge, CA
September 2018 - Contributed Talk: Exoplanet Characterization with SCExAO, *ExoSoCal*, California Institute of Technology, Pasadena, CA
June 2018 - Contributed Talk: SCExAO Science, *Bay Area Exoplanets Meeting*, NASA-Ames Research Center, Mountain View, CA

December 2017 - Invited Talk: Science and PSF Subtraction with SCExAO, *CHARIS International Workshop*, Tokyo, Japan
December 2017 - Invited Talk: Exoplanet Direct Imaging with SCExAO, *Subaru Star and Planet Formation Workshop*, Taipei, Taiwan
May 2017 - Seminar: High-Contrast Imaging and Coronagraphy with SCExAO, NExSCI/Caltech, Pasadena, CA
April 2017 - Seminar: SCExAO Direct Imaging Science, Stanford University, Palo Alto, CA
February 2017 - Colloquium, Department of Astronomy & Astrophysics, University of Minnesota, Minneapolis, MN
January 2017 - Press Release: First-Light SCExAO results, *American Astronomical Society Meeting*, Grapevine, TX
November 2016 - Contributed Talk: Exoplanet Direct Imaging Algorithms/PSF Subtraction, *High Contrast Imaging in Space*, STScI, Baltimore, MD
October 2016 - Colloquium: Institute for Astronomy, University of Hawaii, Honolulu, HI

Selected Press Coverage/Popular Science Writing

Press Releases

At UTSA

HIP 54515 b, HIP 71618 B, Subaru/NAOJ/UTSA/Keck Press Release, "First Results from the Subaru Telescope's OASIS Survey: Direct Imaging of New Worlds Around Unexplored Stars", December 2025;
covered by Scientific American, BigThink, Astronomy Magazine

AB Aurigae b, NAOJ Press Release, "A Glimpse of a Planet in Formation: AB Aurigae b Detected in H-alpha Light", September 2025; covered by Universe Today, EarthSky

HIP 99770 b, Subaru/ESA/NAOJ/Keck/UTSA/Science Press Release, "Subaru Telescope Images, Weighs, and Tracks Massive Benchmark Exoplanet", "Wobbling star found in Gaia-Hipparcos data confirmed to host exoplanet", April 2023;
covered by Scientific American, Inverse, San Antonio Express-News, Hawaii Tribune-Herald, The Conversation, ScienceDaily, SpaceRef, Space.com

HIP 65426 b JWST Early Release Science paper, covered by UTSA Today, "Beyond the known universe: A study in exoplanets with UTSA professor Thayne Currie"

AB Aurigae b, Subaru/HST/Nature Press Release, "Subaru Telescope Images Planet Just Starting to Form", "Hubble Finds a Planet Forming in an Unconventional Way", April 2022;
covered by Reuters, USA Today, BBC, CBC, Science, Nature, The Guardian, NY Post, Astronomy Magazine, Honolulu Star-Advertiser, Sky & Telescope, + many others

HD 33632 Ab, Subaru Press Release, "SCExAO/CHARIS Nets Its First Discovery", December 2020

LkCa 15/κ And b, Subaru/Keck Press Releases, "Subaru Telescope Sheds New Light on an Obscured Infant Solar System", May 2019; covered by Subaru/Keck Observatories, Sky & Telescope, Nature

First-Light SCExAO Results, Subaru Press Release/AAS Meeting, "New Exoplanet Imager Opens Its Eyes to Other Worlds", January 2017

HD 100546, Gemini/AAS Press Release, "Astronomers Spy Nursery of Baby Planets", December 2015

HD 115600, Gemini/Subaru/Nature/AAS/U.Cambridge Joint Press Release, "Discovery Shows What the Solar System Looked Like as a 'Toddler'", May 2015

ROXs 42Bb, AAS Press Release/U. Toronto, "Newly Discovered Celestial Object Defies Categories", January 2014

Fomalhaut b, NASA/STScI Announcement, "New Study Brings Doubted Planet Back from the Dead", October 2012; ScienceNews, "Fomalhaut b Regains Planetary Status", October 2012
also covered by NBC News, CNN, Sky & Telescope, Nature, New Scientist, CTV News, etc.

Kappa And b, Subaru/MPIA/U. Toronto/NASA Press Release, "Astrophysicists identify a 'super-Jupiter' around a massive star", November 2012; covered by CNN, MSNBC, Scientific American, Sky & Telescope, etc.

Popular Writing
Sky and Telescope, "Baby Pictures of an Infant Solar System", August 2012 issue

Teaching Experience

2026 - (spring semester; undergraduate+graduate) (catalog number TBD): Extrasolar Planets (to be co-taught with X. Yu), University of Texas-San Antonio
2025 - (fall semester; undergraduate+graduate) PHYS 4953/7903: Python for Scientific Data Analysis, University of Texas-San Antonio
2025 - (spring semester; undergraduate) AST 1013: Introduction to Astronomy, University of Texas-San Antonio
2024 - (fall semester; undergraduate+graduate) PHYS 4953/7903: Python for Scientific Data Analysis, University of Texas-San Antonio
2023 - (fall semester; undergraduate+graduate) PHYS 4953/7903: Python for Scientific Data Analysis, University of Texas-San Antonio
2023 - (spring semester; undergraduate) AST 1013: Introduction to Astronomy, University of Texas-San Antonio
Other
2013-2014 - Guest lecturer, Introductory Astronomy, University of Toronto
2004-2005 - Instructor, *Solar System Astronomy*, Glendale Community College, Glendale, California
2005 - Teaching Assistant, *Infrared Astronomy* (graduate course), UCLA

Student and Postdoc Advising, Thesis Committees, and Student Collaborative Work

Mona El Morsy (University of Texas-San Antonio, postdoc; supervisor) (2023-present) - High-Contrast Imaging Technology Development
Jie Li (University of Texas-San Antonio, graduate; PhD Advisor) (2025-present) - High-Contrast Imaging and Radial-Velocity Discovery of Planets Around Accelerating Stars
Danielle Bovie (University of Texas-San Antonio, graduate; PhD Advisor) (2023-present) - High-Contrast Imaging Atmospheric and Dynamical Characterization of Planets and Brown Dwarfs Around Accelerating Stars with Subaru/SCExAO
Erica Dykes (University of Texas-San Antonio, graduate; PhD Advisor) (2022-present) - High-Contrast Imaging and Integral Field Polarimetry of Planet-Forming Disks with Subaru/SCExAO

Cindy Luu (University of Texas-San Antonio, graduate; thesis committee) (2025-present)
John Schneider (University of Texas-San Antonio, graduate; thesis committee) (2025-present)
Michael Preston (University of Texas-San Antonio, graduate; thesis committee) (2023-2025)
Johnathan Ramirez (University of Texas-San Antonio, undergraduate) (2023) - High-Contrast Imaging with Subaru/SCExAO

Other
Ranger Y. Liu (Columbia, undergraduate) (2021-2022) - Data Reduction Pipeline for Subaru/SCExAO
Edward Cashman (University of Hawaii-Hilo, undergraduate) (2021-2022) - Data Reduction Pipeline for Subaru/SCExAO
Amilcar Torres-Quijano (University of Texas-San Antonio, graduate; thesis committee) (2021-2022) - Exoplanet Spectroscopy with Subaru/SCExAO
Kellen Lawson (University of Oklahoma, graduate; thesis committee) (2019-2022) - Disk Direct Imaging with

Subaru/SCExAO
Ruben Asensio-Torres (Stockholm University, graduate) (2017-2018) - Brown Dwarf Direct Imaging/Spectroscopy with Subaru/SCExAO
Evan Rich (University of Oklahoma, graduate) (2016-2018) - Exoplanet/Disk Direct Imaging with Subaru/IRCS and Subaru/SCExAO
Sean Goebel (University of Hawaii-Manoa, graduate) (2017-2018) - Debris Disk Imaging with Subaru/SCExAO
Taichi Uyama (University of Tokyo, graduate) (2017) - Exoplanet Direct Imaging with Subaru/SCExAO
Eugenio Garcia (Vanderbilt University, graduate) (2014-2015) - Exoplanet Direct Imaging and Spectroscopy with GPI, Keck, and Subaru/SCExAO
Jasmin Silva (University of Hawaii-Hilo, undergraduate) (2015) - Exoplanet Direct Imaging with Keck and Subaru/SCExAO
Derek Hand (University of Hawaii-Hilo, undergraduate) (2015) - Exoplanet Direct Imaging with Keck
Ryan Cloutier (University of Toronto, undergraduate and graduate) (2013-2014)- Exoplanet Direct Imaging with GPI and Keck; Spitzer Photometry of h and χ Persei

Professional Service

2024 *Subaru Telescope Time Allocation Committee/Reviewer*
2023 *TMT International Science Development Team: Co-Lead for Revised Science Case for Exoplanets*
2022-present *TMT International Science Development Team: Exoplanets Convener*
2021 *NASA/ROSES XRP Review Committee/Panelist*
2020-2022 *TMT International Science Development Team: Exoplanets Convener*
2020-2021 *Hubble Space Telescope Time Allocation Committee/Reviewer*
2020 *NSPIRES/FINESST Astrophysics Program External Reviewer*
2020 *Swiss National Science Foundation*, Proposal Reviewer
2017-2020 – *NSF NOIR Lab/NOAO Time Allocation Committee*
2016 – *SOFIA Airborne Observatory*, Proposal Reviewer/Panelist
2014 – *Chandra X-Ray Observatory*, Proposal Reviewer/Panelist
2014-2015 – *Canada France Hawaii Telescope Time Allocation Committee* Proposal Reviewer
2012-2015 – *Gemini Time Allocation Committee* Proposal Reviewer
2012 – *James Clerk Maxwell Telescope Time Allocation Committee* Proposal Reviewer
2011 – Local/Scientific Organizing Committee, *Signposts of Planets*, NASA-Goddard
2011 – Graduate Women in Science, National Fellowship Competition Proposal Reviewer
2010-2013 – NASA *Origins of Solar Systems* Proposal Reviewer

Referee (2008-present) (Average: 5 reviews and 10 requests per year) -
Science, Nature, Nature Astronomy, The Astrophysical Journal, The Astrophysical Journal Letters, Journal of Astronomical Telescopes, Instruments, and Systems, Astronomy and Astrophysics, MNRAS, New Astronomy, Galaxies

University Committees and Service

2024-2025 UTSA Department of Physics and Astronomy, Faculty Search Committee in Cosmology (co-chair)
2022-present UTSA Department of Physics and Astronomy, Graduate Admissions Committee member

Outreach

2024 – Guest speaker at South Texas Chapter of MENSA
2024 – Guest Speaker at Total Solar Eclipse Watch Event for San Antonio Northeast Independent School District
2023 – Department of Physics and Astronomy booth, UTSA Day
2022-present – Speaker at San Antonio Teacher Training Astronomy Academy

Other

2012-present – Co-Founder and Administrator for *Exoplanet Imaging* Discussion Group on Facebook (social media)
2015-present – Local outreach for support of the Maunakea observatories
2016-2017 – *Career Day* Outreach at Hilo Intermediate Public School (50+% Hawaiian)
2016-2017 – STEM jobs/educational opportunities outreach events hosted by *Perpetuating Unique Educational Opportunities* (P.U.E.O.) in Hawaiian homestead communities
2015-2017 – *Astro Day*, A Celebration of Astronomy and Hawaiian Culture
2015-2016 – Student internships/advising mostly for University of Hawaii students/underrepresented minority students
2013-2016 – *DiskDetective* Citizen Science Project

References

Adam S. Burrows - Professor of Astrophysical Sciences, Princeton University,
burrows@astro.princeton.edu

Olivier Guyon - Astrophysicist, Subaru Telescope/Professor of Astronomy,
University of Arizona, guyon@naoj.org

Scott J. Kenyon - Senior Scientist, Smithsonian Astrophysical Observatory,
skenyon@cfa.harvard.edu

Chris Packham - Professor, University of Texas-San Antonio,
chris.packham@utsa.edu

Wladimir Lyra - Assistant Professor, New Mexico State University
wladimir.lyra@gmail.com

Christian Marois - Astrophysicist, National Research Council, Herzberg Institute for Astrophysics,
christian.marois@nrc-cnrc.gc.ca

Bibliography

41 First-Author Peer-Reviewed Journal Publications
128 Contributing Author Peer-Reviewed Journal Publications, 1 submitted

4 First-Author SPIE Proceedings Technical Papers
27 Contributing Author SPIE Proceedings Technical Papers

12 First-Author White Papers/Conference Proceedings/Other Publications
19 Contributing Author White Papers/Conference Proceedings/Other Publications

Citations: (as of December 15 2025)
Total - 7603, First Author - 2501; H-index: Total 50, First Author - 27
(*__asterisks__ denote student lead and advised publications)

Peer-Reviewed Journal Publications

170. "*SCExAO/CHARIS and Gaia Direct Imaging and Astrometric Discovery of a Superjovian Planet 3–4 λ/D from the Accelerating Star HIP 54515*", **Currie, T.** and Li, Y., et al., 2026, AJ, 171, 5
169. "*Direct Imaging and Astrometric Discovery of HIP 71618 B from the OASIS Survey: A Substellar Companion Suitable for the Roman Coronagraph Instrument Technology Demonstration*", El Morsy, M., **Currie, T.**, et al., 2025, ApJL, 995, L4
168. "*The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems. VI. Evidence for Radially Evolving Icy Grains in the HD 141569A Disk via NIRCam Coronagraphic Imaging*", Millar-Blanchaer, M., ..., **Currie, T.**, et al., 2025, ApJ, 994, 99
167. "*The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems VI: patchy forsterite and enstatite clouds in the atmosphere of VHS 1256 b, retrieval lessons learned and outlook to the future*", Whiteford, N.,...,**Currie, T.**, et al., 2025, ApJL submitted
166. "*Dynamical Analysis of the HD 169142 Planet-Forming Disk: Twelve Years of High-Contrast Polarimetry*", Lucas, M., ...,**Currie, T.**, et al., 2025, AJ, 170, 278
165. "*VLT/MUSE Detection of the AB Aurigae b Protoplanet with H_α Spectroscopy*", **Currie, T.**, Hashimoto, J., et al., 2025, ApJL, 990, L42
*164. "*Multi-band Spectral and Astrometric Characterization of the HIP 99770 b Planet with SCExAO/CHARIS and Gaia*", Bovie, D., **Currie, T.**, et al., 2025, AJ, 170, 254
163. "*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 μm*, Ray, S., ...,**Currie, T.**, et al., 2025, ApJL, 983, L25
162. "*Dynamical and Atmospheric Characterization of the Substellar Companion HD 33632 Ab from Direct Imaging, Astrometry, and Radial-Velocity Data* ", El Morsy, M., **Currie, T.**, et al., 2025, ApJ, 981, 20
161. "*Spectroscopy using a visible photonic lantern at the Subaru telescope: Laboratory characterization and first on-sky demonstration on Ikiiki (α Leo) and 'Aua (α Ori)* ", Vievard, S., ...,**Currie, T.**, et al., 2024, A&A, 691, 140
160. "*Visible-Light High-Contrast Imaging and Polarimetry with SCExAO/VAMPIRES*", Lucas, M., ...,**Currie, T.**, et al., 2024, PASP, 136, 4504
159. "*Gliese 12 b: A Temperate Earth-sized Planet at 12 pc Ideal for Atmospheric Transmission Spectroscopy*", Kuzuhara, M., ...**Currie, T.**, et al., 2024, ApJ Letters, 967, L21
*158. "*SCExAO/CHARIS Near-Infrared Scattered-Light Imaging and Integral Field Spectropolarimetry of the AB Aurigae Protoplanetary System*", Dykes, E., **Currie, T.**, et al., 2024, ApJ, 977, 172
157. "*The Keck-HGCA Pilot Survey - II. Direct imaging discovery of HD 63754 B, a 20 au massive companion near the hydrogen burning limit* ", Li, Y., ...,**Currie, T.**, et al., 2024, MNRAS, 533, 3501L
156. "*Multiband polarimetric imaging of HD 34700 with SCExAO/CHARIS*", Chen, M., ...,**Currie, T.**, 2024, MNRAS, 533, 2473
155. "*Direct Imaging Discovery of a Substellar Companion Orbiting the Accelerating Variable Star, HIP 39017*", Tobin, T., **Currie, T.**, et al., 2024, AJ, 167, 205
154. "*SCExAO/CHARIS Multi-Wavelength, High-Contrast Imaging of the BD+45$^{\rm deg}$598 Debris Disk*", Vincent, M., Lawson, K., **Currie. T.**, et al., 2024, AJ, 168, 6
153. "*The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems. IV. NIRISS*

Aperture Masking Interferometry Performance and Lessons Learned ", Sallum S., ...,**Currie, T.**, et al., 2024, ApJL, 963, L2

152. "*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 b* , Petrus, S., ...,**Currie, T.**, et al., 2023, ApJ, 966, 11

151. "*Combining EFC with spatial LDFC for high-contrast imaging on Subaru/SCExAO* ", Ahn, K., ...,**Currie, T.**, et al., 2023, A&A, 673, 29

150. "*Direct Imaging and Astrometric Detection of a Gas Giant Planet Orbiting an Accelerating Star*", **Currie, T.**, et al., 2023, Science, 380, 198

149. "*From Dust to Nanodust: Resolving Circumstellar Dust from the Colliding-Wind Binary Wolf-Rayet (WR) 140*", Lau, R., Wang, J. J., **Currie, T.**, et al., 2023, ApJ, 951, 89

148. "*Direct Imaging Explorations for Companions around Mid-Late M Stars from the Subaru/IRD Strategic Program*", Uyama, T., ...,**Currie, T.**, et al., 2023, AJ, 165, 162

147. "*Surveying Nearby Brown Dwarfs with HGCA: Direct Imaging Discovery of a Faint, High-Mass Brown Dwarf Orbiting HD 176535 A*", Li, Y., ...**Currie, T.**, et al., 2023, MNRAS, 522, 5622

146. "*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*", Miles, B., ...**Currie, T.**., et al., 2023, ApJL, 946, L6

145. "*The JWST Early Release Science Program for Direct Observations of Exoplanetary Systems I: High Contrast Imaging of the Exoplanet HIP 65426 b from 2-16 microns*", Carter, A., ...**Currie, T.**, et al., 2023, ApJL, 951, L20

144. "*Direct Imaging and Spectroscopy of Extrasolar Planets*", **Currie, T.**, Biller, B., Lagrange, A.-M., et al., 2023, *Protostars and Planets VII*, 534, 799

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