

# Taylor Alexandra Hutchison

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github: [aibhleog](https://github.com/aibhleog)

## RESEARCH INTERESTS

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Reionization, cosmic dawn, near-infrared spectroscopy, high-z spectroscopic tracers, galaxy formation & evolution, Lyman- $\alpha$  emitters, intergalactic medium, photoionization modeling, high-z analogs, spatially-resolved physical conditions (star formation, ionization, metallicity), gravitational lensing

## EDUCATION

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<b>Ph.D. in Astronomy</b>	August 2022
<b>M.S. in Astronomy</b>	May 2019
Texas A&M University (TAMU), Dept of Physics & Astronomy	
Advisor: Dr. Casey Papovich	
<b>B.S. in Physics, <i>Minor in Mathematics</i></b>	May 2016
Southwestern University, Dept of Physics	
Advisor: Dr. Mark Bottorff	

## APPOINTMENTS

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NASA Postdoctoral Fellow (WITH DR. J. RIGBY)	NASA Goddard, 2022 – present
Graduate Student (UNDER DR. C. PAPOVICH)	Texas A&M, 2016 – 2022
Keck Visiting Scholar (UNDER DR. J. WALAWENDER)	Keck Observatory, Fall 2019
Research Assistant (UNDER DR. M. BOTTORFF)	Southwestern, 2014 – 2016
King Creativity Scholar (UNDER O.L. FELLOWS)	Southwestern, 2014 – 2015
King Creativity Scholar (UNDER DR. S. ALEXANDER)	Southwestern, 2013 – 2014
Research Assistant (UNDER DR. S. ALEXANDER)	Southwestern, Summer 2013

## PUBLICATION OVERVIEW

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**summary** — refereed: 62, submitted: 9, lead author: 3 (+2), citations: 4940, h-index: 39 (31-jan-2025)

## HONORS & AWARDS

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— SOME FUNDED —	<b>NASA Postdoctoral Program Fellowship</b>	2022 – 2025
	<b>NSF Graduate Research Fellowship</b>	2018 – 2022
	Texas A&M Prestigious Fellowship Scholar	2019 – 2022
	Dr. Joseph Newton Graduate Service Award	Fall 2019
	<b>W. M. Keck Observatory Visiting Scholar</b>	Fall 2019
	Leadership in Equity and Diversity (LEAD) Award	Spring 2018
	<b>Texas A&amp;M Graduate Diversity Excellence Fellowship</b>	2016 – 2020
	Ruter Scholar Award	2012 – 2016
	Distinction Award	2012 – 2016
	King Creativity Award	Spring 2014
	<b>King Creativity Scholar</b>	2014, 2015

## AWARDS &amp; GRANTS

FY25-27	<b><i>JWST</i> Cy3 GO-5507</b> (Co-PIs: Hutchison, Larson)	\$375.2K
FY25-27	<b><i>JWST</i> Cy3 GO-5943</b> (Co-PIs: Papovich, Hu, Hutchison)	\$20.3K
FY23-26	<b>NASA Postdoctoral Program (NPP) Fellowship</b>	\$247K
FY21	NASA-Awarded Keck Principal Investigator Data Award	\$17.2K
FY20	NASA-Awarded Keck Principal Investigator Data Award	\$17.2K
FY20	Dr. Joseph Newton Graduate Service Award	\$1K
FY20–22	Texas A&M University Prestigious Fellowship Scholar	\$1K / yr
FY20	Mitchell Institute EPO: <i>Astronomy on Tap</i>	\$1.2K
FY20	Mitchell Institute EPO: <i>Conferences for Undergraduate Women in Physics</i>	\$30K
FY19	Office of Graduate and Professional Studies Travel Award	\$750
FY19	Leadership in Equity and Diversity (LEAD) Award	\$500
FY19	Mitchell Institute EPO: <i>Astronomy on Tap</i>	\$600
FY19–22	<b>NSF Graduate Research Fellowship</b>	\$138K
FY17–22	Dept. of Physics & Astronomy Diversity Grant <i>for The Society for the Under-represented in Physics &amp; Astronomy (SUPA)</i>	\$1.5K / yr
FY17–20	<b>Graduate Diversity Excellence Fellowship</b>	\$127.7K
FY13–16	Ruter Scholar Award	\$94K
FY13–16	Distinction Award	\$40K
FY14	King Creativity Award	\$1.5K
FY14,15	King Creativity Scholar	\$2K x 2

## OBSERVING PROGRAMS / GENERAL EXPERIENCE

**summary** — over 700 hrs of telescope observing experience and extensive experience with spectroscopic data reductions using both ground- & space-based telescopes

PROGRAMS	<b><i>W. M. Keck Observatory</i></b> , HI – Keck I, 10-meter telescope	
	— MOSFIRE, NIR Spectrograph // engineering time (3 n)	19 nights
	— LRIS, Optical Spectrograph	2 nights
	<b><i>Cerro Tololo Inter-American Observatory</i></b> , Chile – Blanco 4-meter telescope	
	— DECam, Wide-Field CCD Imager	8 nights
EXPERIENCE	<b><i>Madrona Peak Observatory</i></b> , TX – Robotic 0.6-meter telescope	10+ nights
	<b><i>Fountainwood Observatory</i></b> , TX – 0.4-meter telescope	40+ nights
	<b><i>W. M. Keck Observatory</i></b> , HI – Keck I & II, 10-meter telescopes	
	— Various Instruments: NIRSpec, LRIS, KCWI, MOSFIRE (imaging)	3.5 nights
	<b><i>McDonald Observatory</i></b> , TX – 0.8-meter telescope	
	— Silicon Digital CCD, mentored TAMU REU students	11 nights
	<b><i>Whipple Observatory</i></b> , AZ – 1.5-meter telescope	
	— FAST, Optical Spectrograph	3 nights

SERVICE & OUTREACH

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**International Level** 

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Co-Chair: Junior Scientist Working Group, CEERS Collaboration	since Spring 2022
<a href="#">#UniqueScientists</a> , Editing Director	2019 – 2022

**National Level** 

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Analysis Co-Lead, AAS CSMA Poverty in Astronomy Survey	since Summer 2023
<i>JWST</i> Subject Matter Expert	2021–2023
Warrior Scholar Project: STEM Week TA	TAMU, 2018 – 2021
<i>Letters to a Pre-Scientist</i> Pen Pal	2018 – 2019

**State Level** 

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Texas Section APS Executive Committee	APS, 2021–2023
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**University / Institution Level** 

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RetainU Undergraduate Mentoring Program	TAMU, 2017 – 2018
March for Science, <i>Meet a Scientist</i>	TAMU, April 2017
King Creativity Grant Allocation Committee	Southwestern, Fall 2014

**Department / Division Level** 

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NASA-PEER: Post-Bac Mentoring Program <i>Code 600; Co-founder</i>	NASA GSFC, since 2023
Departmental Graduate Records Committee	TAMU, 2020 – 2022
Mentoring & Advising Graduates in an Inclusive Community <sup>⊙</sup> <i>Co-founder, mentor</i>	TAMU, 2019 – 2022
Astronomy Graduate Student Representative (for Faculty)	TAMU, 2018 – 2021
Departmental Climate and Diversity Committee	TAMU, 2018 – 2020
Society for the Under-represented in Physics & Astronomy <i>Co-founder, grant-funded</i>	TAMU, 2016 – 2022
TAMU Physics & Engineering Festival (annual event)	TAMU, 2017 – 2021
Dept. Moving Transition Team Member	Southwestern, 2015 – 2016

**Local Community Level** 

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Astronomy Outreach, <i>Astronomy on Tap</i> (monthly event)	TAMU, 2018 – 2022
Astronomy Outreach, <i>Camp For All</i> (annual event)	TAMU, 2017 – 2019
TAMU Star Parties (occasional volunteer)	TAMU, Fall 2016
<i>Fountainwood Observatory</i> Public Nights	Southwestern, 2012 – 2016
Physics Outreach, Williamson County Middle Schools	Southwestern, 2013 – 2016
Seaperch Program Mentor	Southwestern, 2014 – 2015

\* NASA-PEER – [nasa-peer.org](https://nasa-peer.org)    <sup>⊙</sup> MAGIC – [tamu-magic.github.io](https://tamu-magic.github.io)

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AWARDED TELESCOPE TIME // ARCHIVAL FUNDING

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**Principal Investigator**

- (Co-PI) *JWST* Cy3; GO-5507 – *Deep Spectroscopy of Galaxies at  $z=4-14$ : Uncovering Drivers of Early Galaxy Formation and Black Hole Growth*; 23.3 hours prime, NIRSpec/MSA

- (Co-PI) *JWST* Cy3; GO-5943 – *What really are the Physical Properties of Galaxies in the Epoch of Reionization?*; 61.83 hours prime, NIRSpec/MSA
- NASA Keck Observatory/MOSFIRE 2020B – *Using Nebular UV Metal Lines to Probe Redshifts and Physical Conditions in Galaxies During Reionization*; 2 nights, Oct/Dec 2020 [COVID-19]
- NASA Keck Observatory/MOSFIRE 2020A – *Using Nebular UV Metal Lines to Probe Redshifts and Physical Conditions in Galaxies During Reionization*; 2 nights, Feb 2020
- (Co-PI) IRAM/NOEMA – *A Physical Study of the Galaxy z7-GND-42912 at the End of Reionization ( $z=7.51$ )*; 30 hours, 2019 (not observed)

## Co-Investigator

NOTE: *JWST* Cy2 & Cy3 Co-I programs to be added soon

- NASA Keck Observatory/MOSFIRE 2022A–2023B – *Webb Epoch of Reionization Ly $\alpha$  Survey (WERLS)*; 29 nights over 4 semesters
- *JWST* Cy1 – *Probing the Interstellar Medium of Galaxies in the Early Universe*; archival
- *JWST* Cy1 – *Spectroscopic Confirmation and Characterization of Bright Galaxies at  $z\sim 9$* ; 18.1 hours prime
- *JWST* Cy1 – *Leveraging Early Public JWST Data to Measure Luminosity Functions and Rest-UV Slopes from  $6 < z < 12$* ; archival
- *JWST* Cy1 – *Confirming a Potential Ultra-Massive Galaxy at  $z=10.57$* ; 2.6 hours prime
- *JWST* Cy1 – *The First Observations of the Ionizing Luminosity of Galaxies within the Epoch of Reionization*; 22.2 hours prime
- NASA Keck Observatory/MOSFIRE 2021A – *CEERS proposal to target  $z > 7$  Ly $\alpha$  ( $z\sim 4$ -5 rest-UV) in the EGS field*; 2 nights, Apr 2021
- NSF NOIRLab Gemini/GNIRS 2021A – *Near-Infrared Spectroscopy of an Extremely-Large Equivalent-width Lyman-alpha Emitter at  $z=7.608$* ; 5 hours, 2021 (not observed, [COVID-19])
- LBT/LUCI 2020A – *Detection of C III] and Ly $\alpha$  at high redshifts through near-infrared spectroscopy*; 15 hours, Jan 2020
- NASA Keck Observatory/MOSFIRE 2019B – *Islands of Reionization*; 2 nights, Dec 2019
- NASA Keck Observatory/MOSFIRE 2019A – *Islands of Reionization*; 2 nights, Mar 2019
- NASA Keck Observatory/MOSFIRE 2018B – *Islands of Reionization*; 2 nights, Nov 2018
- NASA Keck Observatory/MOSFIRE 2018A – *Islands of Reionization*; 2 nights, Apr 2018
- *JWST* Early Release Science – *The Cosmic Evolution Early Release Science (CEERS)*, 2017

## CONFERENCES &amp; PRESENTATIONS

**summary** – science: 40+ (9 invited), professional development: 6, outreach: 20+ (5 invited)

**Science Presentations** (*showing past 4 years*)

Talk: American Astronomical Society #245 (DC)	13 January 2025
Talk: American Astronomical Society #243 (NEW ORLEANS, LA)	10 January 2024
Invited Talk: FCAD colloquium (AMHERST, MA)	30 November 2023
Invited Talk: UPitt Seminar Series (PITTSBURGH, PA)	17 November 2023
Talk: Illuminating Galaxy Properties Across Cosmic Time (ICELAND)	6 July 2023
— <i>informal session on how to reduce &amp; clean JWST NIRSpec/IFS data</i>	
Poster: MIT First Light (BOSTON, MA), won award	12-16 June 2023
Invited Talk: UIUC Colloquium (URBANA, IL)	11 April 2023
Talk: American Astronomical Society #241 (SEATTLE, WA)	12 January 2023
Invited Talk: Joint STScI & JHU Seminar	14 July 2022
Invited Talk: Cosmic DAWN Center CakeTalk Virtual Seminar	24 March 2022
Talk: MIT Brown Bag Virtual Seminar	14 March 2022
Talk: Caltech Tea Talk Virtual Seminar	22 November 2021
Talk: JPL Virtual Seminar	15 November 2021
Talk: UCLA Virtual Seminar	19 October 2021
Poster: Keck Science Meeting ( <a href="#">interactive</a> )	9-10 September 2021
Talk: TAMU Astrosymposium (COLLEGE STATION, TX)	27 August 2021
Talk: SAZERAC 2.0 Virtual Conference	15 July 2021
Invited Talk: EURECA Virtual Seminar, UofA	16 April 2021
Poster: SPIE Telescopes & Instrumentation ( <a href="#">interactive</a> ) [ <b>COVID-19</b> ]	14 December 2020
Invited Talk: TAMU Nuclear+Astro Seminar [ <b>COVID-19</b> ]	25 September 2020

**Professional Development Presentations**

Talk: Telescope Proposals, a “How To” Guide ( <a href="#">recording</a> )	5 March 2021
Talk: GLASS, matplotlib & Effective Plotting ( <a href="#">recording</a> )	9 October 2020
Talk: MAGIC+GLASS, Grants & Opportunities (& Finding Them)	14 August 2020
Talk: MAGIC, Conferences Presentations (Making a Good One)	10 July 2020
Talk: MAGIC+GLASS, Crafting Your CV/Resume ( <a href="#">recording</a> )	24 June 2020
Talk: MAGIC, Building Your Professional Website ( <a href="#">recording</a> )	3 April 2020

**Outreach Presentations** (*showing past 4 years*)

Invited Talk: Distinguished Lecture, HMNS (HOUSTON, TX)	19 March 2024
Talk: <i>Astronomy on Tap</i> (DC)	29 January 2024
Invited Talk: First Year of <i>JWST</i> STScI Outreach Panel	12 July 2023
Talk: NASA Hyperwall, American Astronomical Society #241	11 January 2023
Talk: <i>Astronomy on Tap</i> (DC)	10 October 2022
Talk: <i>Astronomy on Tap</i> (BRYAN, TX)	25 May 2022
Talk: SPS Distinguished Public Lecture, TLU (SEGUIN, TX)	4 November 2021
Invited Talk: <i>Semana Mundial del Espacio</i> , ITESM Virtual Masterclass	6 October 2021
Talk: <i>Astronomy on Tap</i> (BRYAN, TX)	22 September 2021
Invited Talk: W. M. Keck Observatory Virtual Public Talk ( <a href="#">recording</a> )	9 December 2020
Talk: <i>Astronomy on Tap</i> (BRYAN, TX) [ <b>COVID-19</b> ] ( <a href="#">recording</a> )	16 September 2020

NOTE: any activities that were affected by COVID-19 & occurred virtually are marked by [**COVID-19**]

SUPERVISION / MENTORING

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**High School Students** (2)

Independent Study &amp; Mentorship Program, Frisco ISD

— N. Sathishkumar (2020 – 2022)

— A. Kothuri (Spring 2021)

Mentoring under-represented students on applying to graduate school

— (3) Recent grads of Talented &amp; Gifted Magnet (2016–2018)

— (4) Recent grads of Southwestern University (2016–2018)

PUBLICATIONS ([LINK TO MY ADS](#))

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**summary** — refereed: 62, submitted: 9, lead author: 3 (+2), citations: 4940, h-index: 39 (31-jan-2025)

## REFEREED PUBLICATIONS

**First Author** 

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*TEMPLATES: A Robust Outlier Rejection Method for JWST/NIRSpec Integral Field Spectroscopy*  
PASP, Volume 136, Issue 4, article id. 044503, 10 pg. (2024) // [arXiv:2312.12518](#) (**8 citations**)**T. Hutchison**, B. Welch, J. Rigby, G. Olivier, J. Birkin, K. Phadke, G. Khullar, B. Rauscher, K. Sharon, M. Aravena, M. Bayliss, L. Elicker, S. Kim, M. Solimano, J. Vieira, D. Vizgan*Near-Infrared Spectroscopy of Galaxies During Reionization: Measuring C III] in a Galaxy at  $z = 7.5$*   
ApJ, Volume 879, Issue 2, article id. 70, 16 pg. (2019) // [arXiv:1905.08812](#) (**70 citations**)**T. Hutchison**, C. Papovich, S. Finkelstein, M. Dickinson, I. Jung, A. Zitrin, R. Ellis, S. Malhotra, J. Rhoads, G. Roberts-Borsani, M. Song, V. Tilvi**2<sup>nd</sup>–4<sup>th</sup> Co-Author** 

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*JWST Early Release Science Program TEMPLATES: Targeting Extremely Magnified Panchromatic Lensed Arcs and Their Extended Star Formation* // [arXiv:2312.10465](#)The Astrophysical Journal, Volume 978, Issue 1, article id. 108, 19 pg. (2025) (**21 citations**)J. Rigby, J. D. Vieira, K. A. Phadke, **T. Hutchison**, B. Welch, J. Cathey, J. Spilker, A. H. Gonzalez, P. Adhikari, M. Aravena, and 26 colleagues*TEMPLATES: Direct Abundance Constraints for Two Lensed Lyman-break Galaxies* // [arXiv:2401.13046](#)  
The Astrophysical Journal, Volume 975, Issue 2, article id. 196, 12 pg. (2024) (**6 citations**)B. Welch, G. Olivier, **T. Hutchison**, J. Rigby, D. Berg, M. Aravena, M. B. Bayliss, J. E. Birkin, S. C. Chapman, H. Dahle, and 13 colleagues*The Sunburst Arc with JWST: III. An Abundance of Direct Chemical Abundances* // [arXiv:2405.06631](#)  
arXiv e-prints, Volume Issue article id. arXiv:2405.06631, pg. (2024) (**10 citations**)B. Welch, T. E. Rivera-Thorsen, J. Rigby, **T. Hutchison**, G. Olivier, D. Berg, K. Sharon, H. Dahle, M. R. Owens, M. B. Bayliss, and 4 colleagues*Spectral Templates Optimal for Selecting Galaxies at  $z > 8$  with the JWST* // [arXiv:2211.10035](#)The Astrophysical Journal, Volume 958, Issue 2, article id. 141, 12 pg. (2023) (**83 citations**)



R. Larson, **T. Hutchison**, M. Bagley, S. Finkelstein, L. Y. A. Yung, R. S. Somerville, M. Hirschmann, G. Brammer, B. W. Holwerda, C. Papovich, and 2 colleagues

*JWST's TEMPLATES for Star Formation: The First Resolved Gas-phase Metallicity Maps of Dust-obscured Star-forming Galaxies at  $z \sim 4$*  // [arXiv:2307.10412](#)

The Astrophysical Journal, Volume 958, Issue 1, article id. 64, 10 pg. (2023) (**20 citations**)

J. E. Birkin, **T. Hutchison**, B. Welch, J. Spilker, M. Aravena, M. B. Bayliss, J. Cathey, S. C. Chapman, A. H. Gonzalez, G. Gururajan, and 16 colleagues

*Using  $[\text{Ne V}]/[\text{Ne III}]$  to Understand the Nature of Extreme-ionization Galaxies* // [arXiv:2301.07745](#)

The Astrophysical Journal, Volume 953, Issue 1, article id. 10, 13 pg. (2023) (**32 citations**)

N. J. Cleri, G. Olivier, **T. Hutchison**, C. Papovich, J. Trump, R. Amorn, B. Backhaus, D. Berg, V. Fernandez, S. Finkelstein, and 7 colleagues

*A CEERS Discovery of an Accreting Supermassive Black Hole 570 Myr after the Big Bang: Identifying a Progenitor of Massive  $z > 6$  Quasars* // [arXiv:2303.08918](#)

The Astrophysical Journal, Volume 953, Issue 2, article id. L29, 26 pg. (2023) (**272 citations**)

R. Larson, S. Finkelstein, D. D. Kocevski, **T. Hutchison**, J. Trump, P. Arrabal Haro, V. Bromm, N. J. Cleri, M. Dickinson, S. Fujimoto, and 42 colleagues

*New  $z > 7$  Lyman-alpha Emitters in EGS: Evidence of an Extended Ionized Structure at  $z \sim 7.7$*  // [arXiv:2212.09850](#)

arXiv e-prints, Volume Issue article id. arXiv:2212.09850, pg. (2022) (**30 citations**)

I. Jung, S. Finkelstein, R. Larson, **T. Hutchison**, A. N. Straughn, M. B. Bagley, M. Castellano, N. J. Cleri, M. C. Cooper, M. Dickinson, and 14 colleagues

*Searching for Islands of Reionization: A Potential Ionized Bubble Powered by a Spectroscopic Overdensity at  $z = 8.7$*  // [arXiv:2203.08461](#)

The Astrophysical Journal, Volume 930, Issue 2, article id. 104, 19 pg. (2022) (**66 citations**)

R. Larson, S. Finkelstein, **T. Hutchison**, C. Papovich, M. Bagley, M. Dickinson, S. Rojas-Ruiz, H. Ferguson, I. Jung, M. Giavalisco, and 3 colleagues

*Texas Spectroscopic Search for Ly Emission at the End of Reionization. III. The Ly Equivalent-width Distribution and Ionized Structures at  $z > 7$*  // [arXiv:2009.10092](#)

The Astrophysical Journal, Volume 904, Issue 2, article id. 144, 22 pg. (2020) (**127 citations**)

I. Jung, S. Finkelstein, M. Dickinson, **T. Hutchison**, R. Larson, C. Papovich, L. Pentericci, A. N. Straughn, Y. Guo, S. Malhotra, and 4 colleagues

*Texas Spectroscopic Search for Ly Emission at the End of Reionization. II. The Deepest Near-infrared Spectroscopic Observation at  $z \gtrsim 7$*  // [arXiv:1901.05967](#)

The Astrophysical Journal, Volume 877, Issue 2, article id. 146, 9 pg. (2019) (**25 citations**)

I. Jung, S. Finkelstein, M. Dickinson, **T. Hutchison**, R. Larson, C. Papovich, L. Pentericci, M. Song, H. Ferguson, Y. Guo, and 5 colleagues

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## Co-Author

*[Ne v] emission from a faint epoch of reionization-era galaxy: evidence for a narrow-line intermediate-mass black hole* // [arXiv:2402.18643](#)

Monthly Notices of the Royal Astronomical Society, Volume 534, Issue 3, article id. 2633, 20 pg. (2024)  
J. Chisholm, D. Berg, R. Endsley, S. Gazagnes, C. T. Richardson, E. Lambrides, J. Greene, S. Finkelstein, S. Flury, N. G. Guseva, and 9 colleagues including **T. Hutchison**

*JWST MIRI Detections of H and [O III] and a Direct Metallicity Measurement of the  $z = 10.17$  Lensed Galaxy MACS0647JD* // [arXiv:2404.16200](#)

The Astrophysical Journal, Volume 973, Issue 2, article id. 81, 12 pg. (2024)

T. Y.-Y. Hsiao, J. Ivarez-Mrquez, D. Coe, A. Crespo Gmez, Abdurro'uf, P. Dayal, R. Larson, A. Bik, C. Blanco-Prieto, L. Colina, and 23 colleagues including **T. Hutchison**

*Connecting Lyman- $\alpha$  and ionizing photon escape in the Sunburst Arc* // [arXiv:2410.03660](#)

arXiv e-prints, Volume Issue article id. arXiv:2410.03660, pg. (2024)

M. R. Owens, K. J. Kim, M. B. Bayliss, T. E. Rivera-Thorsen, K. Sharon, J. Rigby, A. Navarre, M. Florian, M. D. Gladders, J. G. Burns, and 10 colleagues including **T. Hutchison**

*The Sunburst Arc with JWST: I. Detection of Wolf-Rayet stars injecting nitrogen into a low-metallicity,  $z = 2.37$  proto-globular cluster leaking ionizing photons* // [arXiv:2404.08884](#)

Astronomy and Astrophysics, Volume 690, Issue article id. A269, 8 pg. (2024)

T. Emil Rivera-Thorsen, J. Chisholm, B. Welch, J. Rigby, **T. Hutchison**, M. Florian, K. Sharon, S. Choe, H. Dahle, M. B. Bayliss, and 6 colleagues

*The Case for Super-Eddington Accretion: Connecting Weak X-ray and UV Line Emission in JWST Broad-Line AGN During the First Gyr of Cosmic Time* // [arXiv:2409.13047](#)

arXiv e-prints, Volume Issue article id. arXiv:2409.13047, pg. (2024)

E. Lambrides, K. Garofali, R. Larson, A. Ptak, M. Chiaberge, A. S. Long, **T. Hutchison**, C. Norman, J. McKinney, H. B. Akins, and 16 colleagues

*Evidence for a Shallow Evolution in the Volume Densities of Massive Galaxies at  $z = 4.8$  from CEERS* // [arXiv:2311.14804](#)

The Astronomical Journal, Volume 168, Issue 3, article id. 113, 15 pg. (2024)

K. Chworowsky, S. Finkelstein, M. Boylan-Kolchin, E. J. McGrath, K. G. Iyer, C. Papovich, M. Dickinson, A. Taylor, L. Y. A. Yung, P. Arrabal Haro, and 29 colleagues including **T. Hutchison**

*JWST NIRSpec High-resolution Spectroscopy of MACS0647JD at  $z = 10.167$ : Resolved [O II] Doublet and Electron Density in an Early Galaxy* // [arXiv:2404.16201](#)

The Astrophysical Journal, Volume 973, Issue 1, article id. 47, 16 pg. (2024)

Abdurro'uf, R. Larson, D. Coe, T. Y.-Y. Hsiao, J. Ivarez-Mrquez, A. Crespo Gmez, A. Adamo, R. Bhatawdekar, A. Bik, L. D. Bradley, and 19 colleagues including **T. Hutchison**

*JWST NIRSpec Spectroscopy of the Triply Lensed  $z = 10.17$  Galaxy MACS0647JD* // [arXiv:2305.03042](#)

The Astrophysical Journal, Volume 973, Issue 1, article id. 8, 16 pg. (2024)

T. Y.-Y. Hsiao, Abdurro'uf, D. Coe, R. Larson, I. Jung, M. Mingoizzi, P. Dayal, N. Kumari, V. Kokorev, A. Vikaeus, and 31 colleagues including **T. Hutchison**

*Characterizing the Average Interstellar Medium Conditions of Galaxies at  $z \sim 5.69$  with Ultraviolet and Optical Nebular Lines* // [arXiv:2401.12402](#)

The Astrophysical Journal, Volume 971, Issue 1, article id. 21, 15 pg. (2024)



W. Hu, C. Papovich, M. Dickinson, R. Kennicutt, L. Shen, R. Amorn, P. Arrabal Haro, M. Bagley, R. Bhatawdekar, N. Cleri, and 23 colleagues including **T. Hutchison**

*The Web Epoch of Reionization Ly Survey (WERLS). I. MOSFIRE Spectroscopy of  $z \sim 7.8$  Ly Emitters* // [arXiv:2309.06656](#)

The Astrophysical Journal, Volume 970, Issue 1, article id. 50, 22 pg. (2024)

O. R. Cooper, C. Casey, H. B. Akins, J. Magee, A. Melendez, M. Fong, S. M. Urbano Stawinski, J. Kartaltepe, S. Finkelstein, R. Larson, and 27 colleagues including **T. Hutchison**

*The BoRG-JWST Survey: Program Overview and First Confirmations of Luminous Reionization-Era Galaxies from Pure-Parallel Observations* // [arXiv:2407.17551](#)

arXiv e-prints, Volume Issue article id. arXiv:2407.17551, pg. (2024)

G. Roberts-Borsani, M. Bagley, S. Rojas-Ruiz, T. Treu, T. Morishita, S. Finkelstein, M. Trenti, P. Arrabal Haro, E. Baados, A. Chavez Ortiz, and 11 colleagues including **T. Hutchison**

*Efficient NIRC2 Selection of Quiescent Galaxies at  $3 < z < 6$  in CEERS* // [arXiv:2305.04662](#)

The Astrophysical Journal, Volume 970, Issue 1, article id. 68, 14 pg. (2024)

A. Long, J. Antwi-Danso, E. Lambrides, C. C. Lovell, A. de la Vega, F. Valentino, J. Zavala, C. Casey, S. Wilkins, L. Y. A. Yung, and 24 colleagues including **T. Hutchison**

*The Next Generation Deep Extragalactic Exploratory Public Near-infrared Slitless Survey Epoch 1 (NGDEEP-NISS1): Extragalactic Star-formation and Active Galactic Nuclei at  $0.5 < z < 3.6$*  // [arXiv:2312.09972](#)

The Astrophysical Journal, Volume 969, Issue 2, article id. 90, 25 pg. (2024)

N. Pirzkal, B. Rothberg, C. Papovich, L. Shen, G. C. K. Leung, M. Bagley, S. Finkelstein, B. N. Vanderhoof, J. M. Lotz, A. Koekemoer, and 41 colleagues including **T. Hutchison**

*TEMPLATES: Characterization of a Merger in the Dusty Lensing SPT041847 System* // [arXiv:2307.10115](#)

The Astrophysical Journal, Volume 967, Issue 1, article id. 11, 11 pg. (2024)

J. Cathey, A. H. Gonzalez, S. Lower, K. A. Phadke, J. Spilker, M. Aravena, M. Bayliss, J. E. Birkin, S. Birrer, S. Chapman, and 17 colleagues including **T. Hutchison**

*The Sunburst Arc with JWST: II. Observations of an Eta Carinae Analog at  $z = 2.37$*  // [arXiv:2405.06953](#)

arXiv e-prints, Volume Issue article id. arXiv:2405.06953, pg. (2024)

S. Choe, T. E. Rivera-Thorsen, H. Dahle, K. Sharon, M. R. Owens, J. Rigby, M. B. Bayliss, M. J. Hayes, **T. Hutchison**, B. Welch, and 4 colleagues

*CEERS: Diversity of Ly Emitters during the Epoch of Reionization* // [arXiv:2304.05385](#)

The Astrophysical Journal, Volume 967, Issue 1, article id. 73, 14 pg. (2024)

I. Jung, S. Finkelstein, P. Arrabal Haro, M. Dickinson, H. Ferguson, **T. Hutchison**, J. Kartaltepe, R. Larson, R. Simons, C. Papovich, and 24 colleagues

*The First Billion Years, According to JWST* // [arXiv:2405.21054](#)

arXiv e-prints, Volume Issue article id. arXiv:2405.21054, pg. (2024)

A. Adamo, H. Atek, M. Bagley, E. Baados, K. S. S. Barrow, D. Berg, R. Bezanson, M. Brada, G. Brammer, A. Carnall, and 39 colleagues including **T. Hutchison**

*The Next Generation Deep Extragalactic Exploratory Public (NGDEEP) Survey* // [arXiv:2302.05466](#)

The Astrophysical Journal, Volume 965, Issue 1, article id. L6, 18 pg. (2024)

M. Bagley, N. Pirzkal, S. Finkelstein, C. Papovich, D. Berg, J. M. Lotz, G. C. K. Leung, H. Ferguson, A. Koekemoer, M. Dickinson, and 38 colleagues including **T. Hutchison**

*Primordial Rotating Disk Composed of  $\geq 15$  Dense Star-Forming Clumps at Cosmic Dawn* // [arXiv:2402.18543](#)

arXiv e-prints, Volume Issue article id. arXiv:2402.18543, pg. (2024)

S. Fujimoto, M. Ouchi, K. Kohno, F. Valentino, C. Gimnez-Arteaga, G. B. Brammer, L. J. Furtak, M. Kohandel, M. Oguri, A. Pallottini, and 36 colleagues including **T. Hutchison**

*Uncovering a Massive  $z \sim 7.7$  Galaxy Hosting a Heavily Obscured Radio-loud Active Galactic Nucleus Candidate in COSMOS-Web* // [arXiv:2308.12823](#)

The Astrophysical Journal, Volume 961, Issue 1, article id. L25, 9 pg. (2024)

E. Lambrides, M. Chiaberge, A. S. Long, D. Liu, H. B. Akins, A. F. Ptak, I. T. Andika, A. Capetti, C. Casey, J. B. Champagne, and 40 colleagues including **T. Hutchison**

*ALMA FIR View of Ultra-high-redshift Galaxy Candidates at  $z \sim 11-17$ : Blue Monsters or Low- $z$  Red Interlopers?* // [arXiv:2211.03896](#)

The Astrophysical Journal, Volume 955, Issue 2, article id. 130, 21 pg. (2023)

S. Fujimoto, S. Finkelstein, D. Burgarella, C. L. Carilli, V. Buat, C. Casey, L. Ciesla, S. Tacchella, J. A. Zavala, G. Brammer, and 43 colleagues including **T. Hutchison**

*Confirmation and refutation of very luminous galaxies in the early Universe* // [arXiv:2303.15431](#)

Nature, Volume 622, Issue 7984, article id. 707, 5 pg. (2023)

P. Arrabal Haro, M. Dickinson, S. Finkelstein, J. Kartaltepe, C. T. Donnan, D. Burgarella, A. Carnall, F. Cullen, J. Dunlop, V. Fernandez, and 27 colleagues including **T. Hutchison**

*NGDEEP Epoch 1: The Faint End of the Luminosity Function at  $z$  9-12 from Ultradeep JWST Imaging* // [arXiv:2306.06244](#)

The Astrophysical Journal, Volume 954, Issue 2, article id. L46, 17 pg. (2023)

G. C. K. Leung, M. Bagley, S. Finkelstein, H. Ferguson, A. Koekemoer, P. G. Prez-Gonzalez, A. Morales, D. Kocevski, G. Yang, R. Somerville, and 19 colleagues including **T. Hutchison**

*High-redshift Galaxy Candidates at  $z = 9-10$  as Revealed by JWST Observations of WHL0137-08* // [arXiv:2210.01777](#)

The Astrophysical Journal, Volume 955, Issue 1, article id. 13, 15 pg. (2023)

L. Bradley, D. Coe, G. Brammer, L. J. Furtak, R. Larson, V. Kokorev, F. Andrade-Santos, R. Bhatawdekar, M. Brada, T. Broadhurst, and 18 colleagues including **T. Hutchison**

*Hidden Little Monsters: Spectroscopic Identification of Low-mass, Broad-line AGNs at  $z > 5$  with CEERS* // [arXiv:2302.00012](#)

The Astrophysical Journal, Volume 954, Issue 1, article id. L4, 17 pg. (2023)

D. Kocevski, M. Onoue, K. Inayoshi, J. Trump, P. Arrabal Haro, A. Grazian, M. Dickinson, S. Finkelstein, J. Kartaltepe, M. Hirschmann, and 31 colleagues including **T. Hutchison**

*The FENIKS Survey: Spectroscopic Confirmation of Massive Quiescent Galaxies at  $z \sim 3-5$*  // [arXiv:2307.09590](#)

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J. Antwi-Danso, C. Papovich, J. Esdaile, T. Nanayakkara, K. Glazebrook, **T. Hutchison**, K. E. Whitaker, Z. C. Marsan, R. J. Diaz, D. Marchesini, and 6 colleagues

*Spectroscopic Confirmation of CEERS NIRCam-selected Galaxies at  $z \sim 8-10$*  // [arXiv:2304.05378](#)

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P. Arrabal Haro, M. Dickinson, S. Finkelstein, S. Fujimoto, V. Fernandez, J. Kartaltepe, I. Jung, J. W. Cole, D. Burgarella, K. Chworowsky, and 38 colleagues including **T. Hutchison**

*JWST's PEARLS: TN J1338-1942 - I. Extreme jet-triggered star formation in a  $z = 4.11$  luminous radio galaxy* // [arXiv:2212.09769](#)

Monthly Notices of the Royal Astronomical Society, Volume 522, Issue 3, article id. 4548, 17 pg. (2023)

K. J. Duncan, R. Windhorst, A. Koekemoer, H. J. A. Rttgering, S. H. Cohen, R. Jansen, J. Summers, S. Tompkins, **T. Hutchison**, C. Conselice, and 18 colleagues

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Nature, Volume 618, Issue 7966, article id. 708, 4 pg. (2023)

J. Spilker, K. A. Phadke, M. Aravena, M. Archipley, M. B. Bayliss, J. E. Birkin, M. Bethermin, J. Burgoyne, J. Cathey, S. C. Chapman, and 29 colleagues including **T. Hutchison**

*CEERS Key Paper. V. Galaxies at  $4 < z < 9$  Are Bluer than They Appear* Characterizing Galaxy Stellar Populations from Rest-frame  $\sim 1 \mu m$  Imaging // [arXiv:2301.00027](#)

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C. Papovich, J. Cole, G. Yang, S. Finkelstein, G. Barro, V. Buat, D. Burgarella, P. G. Prez-Gonzalez, P. Santini, L.-M. Seill, and 39 colleagues including **T. Hutchison**

*CEERS Key Paper. VI. JWST/MIRI Uncovers a Large Population of Obscured AGN at High Redshifts* // [arXiv:2303.11736](#)

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G. Yang, K. Caputi, C. Papovich, P. Arrabal Haro, M. Bagley, P. Behroozi, E. F. Bell, L. Bisigello, V. Buat, D. Burgarella, and 28 colleagues including **T. Hutchison**

*JWST Reveals a Possible  $z \sim 11$  Galaxy Merger in Triply Lensed MACS0647JD* // [arXiv:2210.14123](#)

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*CEERS Spectroscopic Confirmation of NIRCam-selected  $z \sim 8$  Galaxy Candidates with JWST/NIRSpec: Initial Characterization of Their Properties* // [arXiv:2301.09482](#)

The Astrophysical Journal, Volume 949, Issue 2, article id. L25, 18 pg. (2023)

S. Fujimoto, P. Arrabal Haro, M. Dickinson, S. Finkelstein, J. Kartaltepe, R. Larson, D. Burgarella, M. Bagley, P. Behroozi, K. Chworowsky, and 33 colleagues including **T. Hutchison**

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N. Cleri, G. Yang, C. Papovich, J. Trump, B. Backhaus, V. Estrada-Carpenter, S. Finkelstein, M. Giavalisco, **T. Hutchison**, Z. Ji, and 6 colleagues

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M. Bagley, S. Finkelstein, A. Koekemoer, H. Ferguson, P. Arrabal Haro, M. Dickinson, J. Kartaltepe, C. Papovich, P. G. Prez-Gonzalez, N. Pirzkal, and 30 colleagues including **T. Hutchison**

*The Physical Conditions of Emission-line Galaxies at Cosmic Dawn from JWST/NIRSpec Spectroscopy in the SMACS 0723 Early Release Observations* // [arXiv:2207.12388](#)

The Astrophysical Journal, Volume 945, Issue 1, article id. 35, 11 pg. (2023)

J. Trump, P. Arrabal Haro, R. Simons, B. Backhaus, R. Amorn, M. Dickinson, V. Fernandez, C. Papovich, D. C. Nicholls, L. J. Kewley, and 56 colleagues including **T. Hutchison**

*CEERS Key Paper. II. A First Look at the Resolved Host Properties of AGN at  $3 < z < 5$  with JWST* // [arXiv:2208.14480](#)

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D. Kocevski, G. Barro, E. J. McGrath, S. Finkelstein, M. Bagley, H. Ferguson, S. Jogee, G. Yang, M. Dickinson, N. P. Hathi, and 50 colleagues including **T. Hutchison**

*First Look at  $z > 1$  Bars in the Rest-frame Near-infrared with JWST Early CEERS Imaging* // [arXiv:2210.08658](#)

The Astrophysical Journal, Volume 945, Issue 1, article id. L10, 13 pg. (2023)

Y. Guo, S. Jogee, S. Finkelstein, Z. Chen, E. Wise, M. Bagley, G. Barro, S. Wuyts, D. Kocevski, J. Kartaltepe, and 38 colleagues including **T. Hutchison**

*CEERS Key Paper. I. An Early Look into the First 500 Myr of Galaxy Formation with JWST* // [arXiv:2211.05792](#)

The Astrophysical Journal, Volume 946, Issue 1, article id. L13, 35 pg. (2023)

S. Finkelstein, M. Bagley, H. Ferguson, S. M. Wilkins, J. Kartaltepe, C. Papovich, L. Y. A. Yung, P. Arrabal Haro, P. Behroozi, M. Dickinson, and 57 colleagues including **T. Hutchison**

*Dusty Starbursts Masquerading as Ultra-high Redshift Galaxies in JWST CEERS Observations* // [arXiv:2208.01816](#)

The Astrophysical Journal, Volume 943, Issue 2, article id. L9, 14 pg. (2023)

J. A. Zavala, V. Buat, C. Casey, S. Finkelstein, D. Burgarella, M. Bagley, L. Ciesla, E. Daddi, M. Dickinson, H. Ferguson, and 115 colleagues including **T. Hutchison**

*A Long Time Ago in a Galaxy Far, Far Away: A Candidate  $z \sim 12$  Galaxy in Early JWST CEERS Imaging* // [arXiv:2207.12474](#)

The Astrophysical Journal, Volume 940, Issue 2, article id. L55, 15 pg. (2022)

S. Finkelstein, M. Bagley, P. Arrabal Haro, M. Dickinson, H. Ferguson, J. Kartaltepe, C. Papovich, D. Burgarella, D. Kocevski, M. Huertas-Company, and 112 colleagues including **T. Hutchison**

*JWST Imaging of Earendel, the Extremely Magnified Star at Redshift  $z = 6.2$*  // [arXiv:2208.09007](#)

The Astrophysical Journal, Volume 940, Issue 1, article id. L1, 12 pg. (2022)

B. Welch, D. Coe, E. Zackrisson, S. E. de Mink, S. Ravindranath, J. Anderson, G. Brammer, L. Bradley, J. Yoon, P. Kelly, and 53 colleagues including **T. Hutchison**

*On the Stellar Populations of Galaxies at  $z = 9-11$ : The Growth of Metals and Stellar Mass at Early Times* // [arXiv:2111.05351](#)

The Astrophysical Journal, Volume 927, Issue 2, article id. 170, 29 pg. (2022)

S. Tacchella, S. Finkelstein, M. Bagley, M. Dickinson, H. Ferguson, M. Giavalisco, L. Graziani, N. A. Grogin, N. Hathi, **T. Hutchison**, and 11 colleagues

*A Census of the Bright  $z = 8.5-11$  Universe with the Hubble and Spitzer Space Telescopes in the CANDELS Fields* // [arXiv:2106.13813](#)

The Astrophysical Journal, Volume 928, Issue 1, article id. 52, 38 pg. (2022)

S. Finkelstein, M. Bagley, M. Song, R. Larson, C. Papovich, M. Dickinson, K. D. Finkelstein, A. Koekemoer, N. Pirzkal, R. Somerville, and 14 colleagues including **T. Hutchison**

*Space Telescope and Optical Reverberation Mapping Project. IX. Velocity-Delay Maps for Broad Emission Lines in NGC 5548* // [arXiv:2003.01448](#)

The Astrophysical Journal, Volume 907, Issue 2, article id. 76, 19 pg. (2021)

K. Horne, G. De Rosa, B. Peterson, A. Barth, J. Ely, M. Fausnaugh, G. Kriss, L. Pei, M. C. Bentz, E. M. Cackett, and 145 colleagues including **T. Hutchison**

*Space Telescope and Optical Reverberation Mapping Project. XII. Broad-line Region Modeling of NGC 5548* // [arXiv:2010.00594](#)

The Astrophysical Journal, Volume 902, Issue 1, article id. 74, 21 pg. (2020)

P. R. Williams, A. Pancoast, T. Treu, B. J. Brewer, B. Peterson, A. Barth, M. A. Malkan, G. De Rosa, K. Horne, G. Kriss, and 148 colleagues including **T. Hutchison**

*The properties of He II $\lambda$ 1640 emitters at  $z \sim 2.5-5$  from the VANDELS survey* // [arXiv:1911.09999](#)

Astronomy and Astrophysics, Volume 636, Issue article id. A47, 20 pg. (2020)

A. Saxena, L. Pentericci, M. Mirabelli, D. Schaerer, R. Schneider, F. Cullen, R. Amorin, M. Bolzonella, A. Bongiorno, A. Carnall, and 17 colleagues including **T. Hutchison**

*Space Telescope and Optical Reverberation Mapping Project. VIII. Time Variability of Emission and Absorption in NGC 5548 Based on Modeling the Ultraviolet Spectrum* // [arXiv:1907.03874](#)

The Astrophysical Journal, Volume 881, Issue 2, article id. 153, 36 pg. (2019)

G. Kriss, G. De Rosa, J. Ely, B. Peterson, J. Kaastra, M. Mehdipour, G. J. Ferland, M. Dehghanian, S. Mathur, R. Edelson, and 157 colleagues including **T. Hutchison**

*Velocity-resolved Reverberation Mapping of Five Bright Seyfert 1 Galaxies* // [arXiv:1807.04784](#)

The Astrophysical Journal, Volume 866, Issue 2, article id. 133, 20 pg. (2018)

G. De Rosa, M. Fausnaugh, C. Grier, B. Peterson, K. D. Denney, K. Horne, M. C. Bentz, S. Ciroi, E. Dalla Bontà, M. D. Joner, and 92 colleagues including **T. Hutchison**

*Continuum Reverberation Mapping of the Accretion Disks in Two Seyfert 1 Galaxies* // [arXiv:1801.09692](#)

The Astrophysical Journal, Volume 854, Issue 2, article id. 107, 20 pg. (2018)

M. Fausnaugh, D. Starkey, K. Horne, C. Kochanek, B. Peterson, M. C. Bentz, K. D. Denney, C. Grier, D. Grupe, R. W. Pogge, and 62 colleagues including **T. Hutchison**

*Space Telescope and Optical Reverberation Mapping Project. VII. Understanding the Ultraviolet Anomaly in NGC 5548 with X-Ray Spectroscopy* // [arXiv:1704.06345](#)

The Astrophysical Journal, Volume 846, Issue 1, article id. 55, 9 pg. (2017)



S. Mathur, A. Gupta, K. Page, R. W. Pogge, Y. Krongold, M. R. Goad, S. M. Adams, M. D. Anderson, P. Arvalo, A. Barth, and 140 colleagues including **T. Hutchison**

*Reverberation Mapping of Optical Emission Lines in Five Active Galaxies* // [arXiv:1610.00008](#)

The Astrophysical Journal, Volume 840, Issue 2, article id. 97, 27 pg. (2017)

M. Fausnaugh, C. Grier, M. C. Bentz, K. D. Denney, G. De Rosa, B. Peterson, C. Kochanek, R. W. Pogge, S. M. Adams, A. Barth, and 61 colleagues including **T. Hutchison**

*Space Telescope and Optical Reverberation Mapping Project. V. Optical Spectroscopic Campaign and Emission-line Analysis for NGC 5548* // [arXiv:1702.01177](#)

The Astrophysical Journal, Volume 837, Issue 2, article id. 131, 21 pg. (2017)

L. Pei, M. Fausnaugh, A. Barth, B. Peterson, M. C. Bentz, G. De Rosa, K. D. Denney, M. R. Goad, C. Kochanek, K. T. Korista, and 146 colleagues including **T. Hutchison**

*Space Telescope and Optical Reverberation Mapping Project. VI. Reverberating Disk Models for NGC 5548* // [arXiv:1611.06051](#)

The Astrophysical Journal, Volume 835, Issue 1, article id. 65, 15 pg. (2017)

D. Starkey, K. Horne, M. Fausnaugh, B. Peterson, M. C. Bentz, C. Kochanek, K. D. Denney, R. Edelson, M. R. Goad, G. De Rosa, and 83 colleagues including **T. Hutchison**

*Space Telescope and Optical Reverberation Mapping Project. IV. Anomalous Behavior of the Broad Ultraviolet Emission Lines in NGC 5548* // [arXiv:1603.08741](#)

The Astrophysical Journal, Volume 824, Issue 1, article id. 11, 10 pg. (2016)

M. R. Goad, K. T. Korista, G. De Rosa, G. Kriss, R. Edelson, A. Barth, G. J. Ferland, C. Kochanek, H. Netzer, B. Peterson, and 91 colleagues including **T. Hutchison**

*Space Telescope and Optical Reverberation Mapping Project. III. Optical Continuum Emission and Broadband Time Delays in NGC 5548* // [arXiv:1510.05648](#)

The Astrophysical Journal, Volume 821, Issue 1, article id. 56, 25 pg. (2016)

M. Fausnaugh, K. D. Denney, A. Barth, M. C. Bentz, M. C. Bottorff, M. T. Carini, K. V. Croxall, G. De Rosa, M. R. Goad, K. Horne, and 87 colleagues including **T. Hutchison**

## SPIE CONFERENCE PROCEEDINGS

### First Author

---

*Flexure updates to MOSFIRE on the Keck I telescope* // [arXiv:2012.09308](#) (4 citations)

Proc. SPIE 11447, Ground-based and Airborne Instrumentation for Astronomy VIII, 114476A

**T. Hutchison**, J. Walawender, S. H. Kwok // Paper No. 11447-114

## WHITE PAPERS

### Co-Author

---

*Strongly lensed [O III] emitters at Cosmic Noon with Roman: Characterizing extreme emission line galaxies on star cluster complex scales (100 pc)* // [arXiv:2307.01247](#)

K. J. Kim, M. Bayliss, H. Dahle, **T. Hutchison**, K. Sharon, and 3 additional authors

*UV Diagnostics of Galaxies from the Peak of Star-Formation to the Epoch of Reionization*



C. Papovich, D. Stark, S. Finkelstein, S. Ravindranath, D. Berg, M. Bradac, and 16 additional authors, including **T. Hutchison**. // [arXiv:1903.04524](#)

*Spatially-resolved studies of star-forming galaxies in the reionization epoch*

S. Ravindranath, C. Papovich, B. James, G. Snyder, A. Jaskot, H. Ferguson, and 12 additional authors, including **T. Hutchison**. // [article link](#)

*Unveiling the Phase Transition of the Universe During the Reionization Epoch with Lyman-alpha*

S. Finkelstein, M. Bradac, C. Casey, M. Dickinson, R. Endsley, and 13 colleagues including **T. Hutchison**. // [arXiv:1903.04518](#)

## RESEARCH NOTES

### Co-Author

---

*TEMPLATES: Tests of NIRSpec Observing Strategy, using SGAS1723*

Research Notes of the AAS, Volume 7, Issue 1, article id. 17, pg. (2023)

B. Welch, J. Rigby, and T. Hutchison

## TEACHING EXPERIENCE

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### Workshops

- |  |                                   |
|--|-----------------------------------|
| — Pitt-TAMU Python Camp, instructor  | (virtual) 24–26 May 2021          |
| — Co-organizer of local JWST proposal planning workshops; STScI JWST master scholars | UT Austin & Texas A&M Spring 2020 |

### Assistant

- |                                      |   |
|--------------------------------------|---|
| — Warrior Scholar Project: STEM Week | TAMU, Summer 2018, 2019,<br>[COVID-19] 2020, 2021 |
| — Teaching Assistant, Astronomy      | TAMU, 2016–2018                                   |
| — Advisor, Independent Study         | Southwestern, 2016                                |
| — Undergraduate Astronomy            | Southwestern, Fall 2014                           |

## CONFERENCE/MEETING LEADERSHIP

---

### New Data that Challenge Underlying Assumptions in Early Galaxy Evolution, SOC ([website](#))

28 July – 1 August 2025

First Year of Science with *JWST*, SOC

11-14 September 2023

Royal Astronomy Society Specialist Discussion, SOC ([website](#))

14 January 2022

APS CUWiP 2020 Organizing Committee for TAMU ([website](#))

17-19 January 2020

PROGRAMMING

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**Languages**

Fluent: Python, Tex, html

Experience with: C++, bash, IDL, R, CSS

**Website Architect**

Personal website: [aibhleog.github.io](https://aibhleog.github.io), created starting websites for (5) colleagues

JWST Cosmic Spring Collaboration (with Dr. D. Coe): [cosmic-spring.github.io](https://cosmic-spring.github.io)

TAMU Astronomy website (with other grads): [tamu-astro.github.io](https://tamu-astro.github.io)

GLASS, Astronomy Graduate Professional Development Program: [tamu-glass.github.io](https://tamu-glass.github.io)

JWST Texas Master Scholars (with Dr. M. Bagley): [jwst-texas-master-scholars.github.io](https://jwst-texas-master-scholars.github.io)

Mentoring & Advising Graduates in an Inclusive Community (MAGIC): [tamu-magic.github.io](https://tamu-magic.github.io)

Conference for Undergraduate Women in Physics (CUWiP) at TAMU: [cuwip.tamu.edu](https://cuwip.tamu.edu)

Society for the Under-represented in Physics & Astronomy (SUPA): [tx.ag/supa](https://tx.ag/supa)

CERTIFICATES

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CIRTL Associate Certificate – Evidenced-Based Teaching Practices

April 2021

OGAPS Intermediate Leadership Development Certificate

4 May 2017

OGAPS Basic Leadership Development Certificate

4 May 2017

PANELS

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The Astronomy Poverty Survey's Preliminary Results, AAS #245

13 January 2025

(invited) Graduate Students, APS April Meeting

[COVID-19], 18 April 2020

Activism & Outreach, TAMU CUWiP 2020

TAMU, 18 January 2020

Undergraduate Advice, Intro. to Physics Seminar

TAMU, 26 April 2017

CIRCULARS & TELEGRAMS

---

*ASASSN-17bq: Discovery of A Supernova in GALEXASC J072538.14+590010.5*

L. Macri, **T. Hutchison**, R. A. Koff et al. 2017, ATel. 10027, 1

PRESS COVERAGE

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NASA Early Career Scientist Spotlight, “[Dr. Taylor Hutchison](#)” – March 2023

PBS NOVA, “[New Eye on the Universe](#)” – February 2023

*The Point of Becoming You*, BestColleges, “[From Bartender to NASA Astrophysicist: The Point of Becoming Taylor](#)” – January 2023

*Constellations* with host Sarafina Nance, Seeker, [“How Space-Time Works When You Look at the Stars”](#) – Episode 3, January 2021

The STEM Squad, [Making Space Award Nominee](#), September 2019

*Texas A&M Today*, [“Stargazing”](#), July 2019

*Texas A&M University: Science*, [“Texas A&M NSF Graduate Research Fellow Taylor Hutchison Finds Focus in Studying Universe’s Earliest Stars and Sharing Passion for Science”](#), June 2019

#### PROFESSIONAL SOCIETIES

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SPIE: The International Society for Optics & Photonics	2020 – present
American Astronomical Society	2019 – present
American Physical Society	2014 – present
Sigma Xi, The Scientific Research Honor Society	2018 – 2022