Taylor Alexandra Hutchison

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Research Interests

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

Education

Ph.D. in Astronomy — August 2022
M.S. in Astronomy — May 2019
Texas A&M University (TAMU), Dept of Physics & Astronomy
Advisor: Dr. Casey Papovich

B.S. in Physics, *Minor in Mathematics* — May 2016
Southwestern University, Dept of Physics
Advisor: Dr. Mark Bottorff

Appointments

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

summary — refereed: 57, submitted: 11, lead author: 3, citations: 4397, h-index: 37 (24-oct-2024)

Honors & Awards

SOME FUNDED

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

Awards & Grants

FY25-27	***JWST* Cy3 GO-5507** (Co-PIs: Hutchison, Larson)	$375.2K
FY25-27	***JWST* Cy3 GO-5943** (Co-PIs: Papovich, Hu, Hutchison)	[TBD]
FY23-26	**NASA Postdoctoral Program (NPP) Fellowship**	$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: *Astronomy on Tap*	$1.2K
FY20	Mitchell Institute EPO: *Conferences for Undergraduate Women in Physics*	$30K
FY19	Office of Graduate and Professional Studies Travel Award	$750
FY19	Leadership in Equity and Diversity (LEAD) Award	$500
FY19	Mitchell Institute EPO: *Astronomy on Tap*	$600
FY19–22	**NSF Graduate Research Fellowship**	$138K
FY17–22	Dept. of Physics & Astronomy Diversity Grant *for The Society for the Under-represented in Physics & Astronomy (SUPA)*	$1.5K / yr
FY17–20	**Graduate Diversity Excellence Fellowship**	$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

W. M. Keck Observatory, HI – Keck I, 10-meter telescope	
— MOSFIRE, NIR Spectrograph // engineering time (3 n)	19 nights
— LRIS, Optical Spectrograph	2 nights
Cierro Tololo Inter-American Observatory, Chile – Blanco 4-meter telescope	
— DECam, Wide-Field CCD Imager	8 nights
Madrona Peak Observatory, TX – Robotic 0.6-meter telescope	10+ nights
Fountainwood Observatory, TX – 0.4-meter telescope	40+ nights

EXPERIENCE

W. M. Keck Observatory, HI – Keck I & II, 10-meter telescopes	
— Various Instruments: NIRSpec, LRIS, KCWI, MOSFIRE (imaging)	3.5 nights
McDonald Observatory, TX – 0.8-meter telescope	
— Silicon Digital CCD, mentored TAMU REU students	11 nights
Whipple Observatory, AZ – 1.5-meter telescope	
— FAST, Optical Spectrograph	3 nights

Service & Outreach

International Level

Co-Chair: Junior Scientist Working Group, CEERS Collaboration	since Spring 2022
#UniqueScientists, Editing Director	2019 – 2022

National Level

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

State Level

Texas Section APS Executive Committee	APS, 2021–2023

University / Institution Level

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

Department / Division Level

NASA-PEER: Post-Bac Mentoring Progam *Code 600; Co-founder, current mentor*	NASA GSFC, since 2023
Departmental Graduate Records Committee	TAMU, 2020 – 2022
Mentoring & Advising Graduates in an Inclusive Community ⊙ *Co-founder, mentor*	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 *Co-founder, grant-funded*	TAMU, 2016 – 2022
TAMU Physics & Engineering Festival (annual event)	TAMU, 2017 – 2021
Dept. Moving Transition Team Member	Southwestern, 2015 – 2016

Local Community Level

Astronomy Outreach, *Astronomy on Tap* (monthly event)	TAMU, 2018 – 2022
Astronomy Outreach, *Camp For All* (annual event)	TAMU, 2017 – 2019
TAMU Star Parties (occasional volunteer)	TAMU, Fall 2016
Fountainwood Observatory 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 ⊙ MAGIC – tamu-magic.github.io

Awarded Telescope Time // Archival Funding

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 Lyα 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∼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 Lyα (z∼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 Lyα 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 & Presentations

Science Presentations

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
— *informal session on how to reduce & clean JWST NIRSpec/IFS data*	
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 (interactive)	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 (interactive) **[COVID-19]**	14 December 2020
Invited Talk: TAMU Nuclear+Astro Seminar **[COVID-19]**	25 September 2020
Poster: Keck Science Meeting (interactive) **[COVID-19]**	24-25 September 2020
Talk: TAMU Astrosymposium **[COVID-19]**	17 August 2020
Talk: SAZERAC Virtual Conference	6 July 2020
Invited Talk: Lancaster XGAL Seminar (uk) **[COVID-19]**	14 April 2020
Invited Talk: Gemini Headquarters (hilo, hi)	24 February 2020
Talk: American Astronomical Society #235 (honolulu, hi)	5 January 2020
Talk: Keck Summit Talk (maunakea)	9 December 2019
Talk: Keck Visiting Scholar: Exit Talk (waimea, hi)	24 October 2019
Talk: Keck Visiting Scholar: Entrance Talk (waimea, hi)	2 October 2019
Talk: Keck Science Meeting, UCLA (los angeles, ca)	20 September 2019
Talk: TAMU Astrosymposium (college station, tx)	23 August 2019
Talk: Barefoot in the EoR (fitzroy island, qld, au)	17 July 2019
Talk: Extremely Large Telescopes Conf., UCLA (los angeles, ca)	29 January 2019
Talk: TAMU Astrosymposium (college station, tx)	24 August 2018
Talk: 2-min; DES Collaboration Meeting (college station, tx)	17 May 2018
Talk: CEERS Team Meeting (magnolia, tx)	1 February 2018
Talk: Star Formation in Era of JWST (college station, tx)	1 November 2017
Poster: Frank N. Bash Symposium (austin, tx)	24–25 October 2017
Talk: 1-min; Frank N. Bash Symposium (austin, tx)	24 October 2017
Talk: TAMU Astrosymposium (college station, tx)	25 August 2017
Talk: ZFOURGE Team Meeting (magnolia, tx)	24-28 October 2016
Talk: TAMU Astrosymposium (college station, tx)	26 August 2016

Professional Development Presentations

Talk: Telescope Proposals, a "How To" Guide (recording)	5 March 2021
Talk: GLASS, `matplotlib` & Effective Plotting (recording)	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 (recording)	24 June 2020
Talk: MAGIC, Building Your Professional Website (recording)	3 April 2020

Outreach Presentations

Invited Talk: Distinguished Lecture, HMNS (HOUSTON, TX)	19 March 2024
Talk: *Astronomy on Tap* (DC)	29 January 2024
Invited Talk: First Year of *JWST* STScI Outreach Panel	12 July 2023
Talk: NASA Hyperwall, American Astronomical Society #241	11 January 2023
Talk: *Astronomy on Tap* (DC)	10 October 2022
Talk: *Astronomy on Tap* (BRYAN, TX)	25 May 2022
Talk: [§] SPS Distinguished Public Lecture, TLU (SEGUIN, TX)	4 November 2021
Invited Talk: *Semana Mundial del Espacio*, ITESM Virtual Masterclass	6 October 2021
Talk: *Astronomy on Tap* (BRYAN, TX)	22 September 2021
Invited Talk: W. M. Keck Observatory Virtual Public Talk (recording)	9 December 2020
Talk: *Astronomy on Tap* (BRYAN, TX) **[COVID-19]** (recording)	16 September 2020
Invited: *The Earth is Flat on Planet Pluto*, David Sobral (recording)	1 July 2020
Talk: Warrior Scholar Project (COLLEGE STATION, TX) **[COVID-19]**	26 June 2020
Talk: *Astronomy on Tap* (BRYAN, TX) **[COVID-19]** (recording)	24 June 2020
Talk: *Astronomy on Tap* (AUSTIN, TX) **[COVID-19]** (recording)	31 March 2020
Talk: Society for Physics Students (COLLEGE STATION, TX) **[COVID-19]**	24 March 2020
Talk: *Astronomy on Tap* (BRYAN, TX)	14 August 2019
Talk: Warrior Scholar Project (COLLEGE STATION, TX)	27 June 2019
Talk: Warrior Scholar Project (COLLEGE STATION, TX)	28 June 2019
Talk: *Astronomy on Tap* (BRYAN, TX)	11 October 2018
Talk: Warrior Scholar Project (COLLEGE STATION, TX)	29 June 2018
Talk: Warrior Scholar Project (COLLEGE STATION, TX)	28 June 2018
Talk: *Camp For All* (BURTON, TX)	21 April 2018

Undergraduate Presentations

Talk: Creative Works Symposium, Senior Capstone (GEORGETOWN, TX)	12 April 2016
Poster: [⋆] Creative Works Symposium (GEORGETOWN, TX)	April 2015
Poster: [⋆] King Creativity Symposium (GEORGETOWN, TX)	April 2015
Poster: APS March Meeting (SAN ANTONIO, TX)	March 2015
Poster: CUWiP [◇] (BROWNSVILLE, TX)	January 2015
Poster: APS Meeting; Texas Section (COLLEGE STATION, TX)	October 2014
Poster: [⋆] Creative Works Symposium (GEORGETOWN, TX)	April 2014
Poster: [⋆] King Creativity Symposium (GEORGETOWN, TX)	April 2014

[§] *JWST* Subject Matter Expert speaking event
[⋆] Poster paired with Display Table

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

Supervision / Mentoring

High School Students (2)
Independent Study & 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 & Gifted Magnet (2016–2018)
—— (4) Recent grads of Southwestern University (2016–2018)

Publications (link to my ads)

summary — refereed: 57, submitted: 11, lead author: 3, citations: 4397, h-index: 37 (24-oct-2024)

Refereed Publications

First Author

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 **(7 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 **(68 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

2nd–4th Co-Author

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) **(5 citations)**
B. Welch, T. E. Rivera-Thorsen, J. Rigby, **T. Hutchison**, G. Olivier, D. A. Berg, K. Sharon, H. Dahle, M. R. Owens, M. B. Bayliss, and 4 colleagues

TEMPLATES: Direct Abundance Constraints for Two Lensed Lyman-Break Galaxies // arXiv:2401.13046
arXiv e-prints, Volume Issue article id. arXiv:2401.13046, pg. (2024) **(5 citations)**
B. Welch, G. Olivier, **T. Hutchison**, J. Rigby, D. A. Berg, M. Aravena, M. B. Bayliss, J. E. Birkin, S. C. Chapman, H. Dahle, and 12 colleagues

JWST Early Release Science Program TEMPLATES: Targeting Extremely Magnified Panchromatic Lensed Arcs and their Extended Star formation // arXiv:2312.10465
arXiv e-prints, Volume Issue article id. arXiv:2312.10465, pg. (2023) **(18 citations)**
J. Rigby, J. D. Vieira, K. A. Phadke, **T. Hutchison**, B. Welch, J. Cathey, J. S. Spilker, A. H. Gonzalez, P. Adhikari, M. Aravena, and 26 colleagues

Spectral Templates Optimal for Selecting Galaxies at $z \sim 8$ *with the JWST* // arXiv:2211.10035
The Astrophysical Journal, Volume 958, Issue 2, article id. 141, 12 pg. (2023) **(71 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) **(18 citations)**
J. E. Birkin, **T. Hutchison**, B. Welch, J. S. Spilker, M. Aravena, M. B. Bayliss, J. Cathey, S. C. Chapman, A. H. Gonzalez, G. Gururajan, and 16 colleagues

Using [Ne V]/[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) **(30 citations)**
N. Cleri, G. Olivier, **T. Hutchison**, C. Papovich, J. R. Trump, R. O. Amorn, B. E. Backhaus, D. A. Berg, V. Fernndez, 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 $z \sim 6$ Quasars // arXiv:2303.08918
The Astrophysical Journal, Volume 953, Issue 2, article id. L29, 26 pg. (2023) **(234 citations)**
R. Larson, S. Finkelstein, D. D. Kocevski, **T. Hutchison**, J. R. Trump, P. Arrabal Haro, V. Bromm, N. 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) **(25 citations)**
I. Jung, S. Finkelstein, R. Larson, **T. Hutchison**, A. N. Straughn, M. B. Bagley, M. Castellano, N. 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) **(61 citations)**
R. Larson, S. Finkelstein, **T. Hutchison**, C. Papovich, M. Bagley, M. Dickinson, S. Rojas-Ruiz, H. C. 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 $z \sim 7$ // arXiv:2009.10092
The Astrophysical Journal, Volume 904, Issue 2, article id. 144, 22 pg. (2020) **(118 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 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. C. Ferguson, Y. Guo, and 5 colleagues

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

Connecting Lyman-α 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 = 48 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. J. 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. L. Larson, D. Coe, T. Y.-Y. Hsiao, J. lvarez-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. L. Larson, I. Jung, M. Mingozzi, P. Dayal, N. Kumari, V. Kokorev, A. Vikaeus, and 31 colleagues including **T. Hutchison**

Characterizing the Average Interstellar Medium Conditions of Galaxies at z ∼ 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. O. 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. M. Casey, H. B. Akins, J. Magee, A. Melendez, M. Fong, S. M. Urbano Stawinski, J. Kartaltepe, S. Finkelstein, R. L. 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. Chvez Ortiz, and 11 colleagues including **T. Hutchison**

Efficient NIRCam 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. S. Long, J. Antwi-Danso, E. L. Lambrides, C. C. Lovell, A. de la Vega, F. Valentino, J. A. Zavala, C. M. Casey, S. M. 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. M. 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. C. Ferguson, **T. Hutchison**, J. Kartaltepe, R. L. Larson, R. C. 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. A. Berg, R. Bezanson, M. Brada, G. Brammer, A. C. 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. A. Berg, J. M. Lotz, G. C. K. Leung, H. C. Ferguson, A. M. Koekemoer, M. Dickinson, and 38 colleagues including **T. Hutchison**

Primordial Rotating Disk Composed of ≥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. M. 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. M. 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. C. Carnall, F. Cullen, J. S. Dunlop, V. Fernndez, 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. C. Ferguson, A. M. Koekemoer, P. G. Prez-Gonzlez, 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. D. Bradley, D. Coe, G. Brammer, L. J. Furtak, R. L. 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. R. 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

arXiv e-prints, Volume Issue article id. arXiv:2307.09590, pg. (2023)
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 8-10 // arXiv:2304.05378
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P. Arrabal Haro, M. Dickinson, S. Finkelstein, S. Fujimoto, V. Fernndez, 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. A. Windhorst, A. M. Koekemoer, H. J. A. Rttgering, S. H. Cohen, R. A. Jansen, J. Summers, S. Tompkins, **T. Hutchison**, C. J. Conselice, and 18 colleagues

Spatial variations in aromatic hydrocarbon emission in a dust-rich galaxy // arXiv:2306.03152
Nature, Volume 618, Issue 7966, article id. 708, 4 pg. (2023)
J. S. Spilker, K. A. Phadke, M. Aravena, M. Archipley, M. B. Bayliss, J. E. Birkin, M. Bthermin, 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 AppearCharacterizing Galaxy Stellar Populations from Rest-frame ∼1 m Imaging // arXiv:2301.00027
The Astrophysical Journal, Volume 949, Issue 2, article id. L18, 23 pg. (2023)
C. Papovich, J. W. Cole, G. Yang, S. Finkelstein, G. Barro, V. Buat, D. Burgarella, P. G. Prez-Gonzlez, 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
The Astrophysical Journal, Volume 950, Issue 1, article id. L5, 11 pg. (2023)
G. Yang, K. I. 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 ∼ 11 Galaxy Merger in Triply Lensed MACS0647JD // arXiv:2210.14123
The Astrophysical Journal, Volume 949, Issue 2, article id. L34, 21 pg. (2023)
T. Y.-Y. Hsiao, D. Coe, Abdurro'uf, L. Whitler, I. Jung, G. Khullar, A. K. Meena, P. Dayal, K. S. S. Barrow, L. Santos-Olmsted, and 56 colleagues including **T. Hutchison**

CEERS Spectroscopic Confirmation of NIRCam-selected z 8 Galaxy Candidates with JWST/NIRSpec: Initial Characterization of Their Properties // arXiv:2301.09482
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S. Fujimoto, P. Arrabal Haro, M. Dickinson, S. Finkelstein, J. Kartaltepe, R. L. Larson, D. Burgarella, M. Bagley, P. Behroozi, K. Chworowsky, and 33 colleagues including **T. Hutchison**

CLEAR: High-ionization [Ne V] 3426 Emission-line Galaxies at 1.4 < z < 2.3 // arXiv:2209.06247
The Astrophysical Journal, Volume 948, Issue 2, article id. 112, 15 pg. (2023)
N. Cleri, G. Yang, C. Papovich, J. R. Trump, B. E. Backhaus, V. Estrada-Carpenter, S. Finkelstein, M. Giavalisco, **T. Hutchison**, Z. Ji, and 6 colleagues

CEERS Epoch 1 NIRCam Imaging: Reduction Methods and Simulations Enabling Early JWST Science Results // arXiv:2211.02495
The Astrophysical Journal, Volume 946, Issue 1, article id. L12, 23 pg. (2023)
M. Bagley, S. Finkelstein, A. M. Koekemoer, H. C. Ferguson, P. Arrabal Haro, M. Dickinson, J. Kartaltepe, C. Papovich, P. G. Prez-Gonzlez, 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. R. Trump, P. Arrabal Haro, R. C. Simons, B. E. Backhaus, R. O. Amorn, M. Dickinson, V. Fernndez, 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
The Astrophysical Journal, Volume 946, Issue 1, article id. L14, 14 pg. (2023)
D. Kocevski, G. Barro, E. J. McGrath, S. Finkelstein, M. Bagley, H. C. 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. C. 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. M. Casey, S. Finkelstein, D. Burgarella, M. Bagley, L. Ciesla, E. Daddi, M. Dickinson, H. C. 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. C. 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. C. 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. M. 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. M. Peterson, A. J. Barth, J. Ely, M. M. Fausnaugh, G. A. 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. M. Peterson, A. J. Barth, M. A. Malkan, G. De Rosa, K. Horne, G. A. Kriss, and 148 colleagues including **T. Hutchison**

The properties of He II1640 emitters at z ∼ 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. C. 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. A. Kriss, G. De Rosa, J. Ely, B. M. 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. M. Fausnaugh, C. J. Grier, B. M. Peterson, K. D. Denney, K. Horne, M. C. Bentz, S. Ciroi, E. Dalla Bont, 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. M. Fausnaugh, D. A. Starkey, K. Horne, C. S. Kochanek, B. M. Peterson, M. C. Bentz, K. D. Denney, C. J. 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. J. 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. M. Fausnaugh, C. J. Grier, M. C. Bentz, K. D. Denney, G. De Rosa, B. M. Peterson, C. S. Kochanek, R. W. Pogge, S. M. Adams, A. J. 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. M. Fausnaugh, A. J. Barth, B. M. Peterson, M. C. Bentz, G. De Rosa, K. D. Denney, M. R. Goad, C. S. 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. M. Fausnaugh, B. M. Peterson, M. C. Bentz, C. S. 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. A. Kriss, R. Edelson, A. J. Barth, G. J. Ferland, C. S. Kochanek, H. Netzer, B. M. 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. M. Fausnaugh, K. D. Denney, A. J. 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

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, [COVID-19] 2020, 2021
— Teaching Assistant, Astronomy	TAMU, 2016–2018
— Advisor, Independent Study	Southwestern, 2016
— Undergraduate Astronomy	Southwestern, Fall 2014

Conference/Meeting Leadership

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

Languages
Fluent: `Python`, Tex, html
Experience with: `C++`, bash, `IDL`, `R`, CSS

Website Architect
Personal website: aibhleog.github.io, created starting websites for (5) colleagues
JWST Cosmic Spring Collaboration (with Dr. D. Coe): cosmic-spring.github.io
TAMU Astronomy website (with other grads): tamu-astro.github.io
GLASS, Astronomy Graduate Professional Development Program: tamu-glass.github.io
JWST Texas Master Scholars (with Dr. M. Bagley): jwst-texas-master-scholars.github.io
Mentoring & Advising Graduates in an Inclusive Community (MAGIC): tamu-magic.github.io
Conference for Undergraduate Women in Physics (CUWiP) at TAMU: cuwip.tamu.edu
Society for the Under-represented in Physics & Astronomy (SUPA): tx.ag/supa

Certificates

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

(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

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

SPIE: The International Society for Optics & Photonics	2020 – present
American Astronomical Society	2019 – present
Sigma Xi, The Scientific Research Honor Society	2018 – present
American Physical Society	2014 – present
Alpha Delta Pi (academic sorority)	2015 – present