Taylor Alexandra Hutchison

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RESEARCH INTERESTS

Reionization, high-z universe, near-infrared spectroscopy, high-z spectroscopic tracers, galaxy formation & evolution, Lyman- α emitters, intergalactic medium, photoionization modeling, high-z analogs

EDUCATION

Ph.D. in Astronomy (in progress)	(expected) May 2022
M.S. in Astronomy	May 2019
TD AONETT	

Texas A&M University

Department of Physics and Astronomy

College Station, TX 77843-4242 Advisor: Dr. Casey Papovich

B.S. in Physics, Minor in Mathematics

May 2016

Southwestern University 1001 E. University Ave. Georgetown, TX 78626 Advisor: Dr. Mark Bottorff

APPOINTMENTS

Graduate Student (UNDER DR. C. PAPOVICH) Keck Visiting Scholar (UNDER DR. J. WALAWENDER)	Texas A&M, 2016 – present 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

Honors

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

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

AWARDS & GRANTS

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	·	\$1K/yr
FY20	Mitchell Institute EPO: Astronomy on Tap	\$1.2K
FY20	Mitchell Institute EPO: Astronomy on Tup 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	•	\$138K
FY17+	Dept. of Physics & Astronomy Diversity Grant	$1.5 \mathrm{K}/\mathrm{yr}$
	The Society for the Under-represented in Physics & Astronomy	
FY17-20	Graduate Diversity Excellence Fellowship	\$127.7K
FY13-16	8 Ruter Scholar Award	\$94K
FY13-16	6 Distinction Award	\$40K
FY14	King Creativity Award	\$1.5K
FY14,15	9	$2K \times 2$
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OBSERVI	ng Programs / Experience	
— N	M. Keck Observatory, HI – Keck I, 10-meter telescope MOSFIRE, NIR Spectrograph primary or secondary science lead	12 night
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- N	primary or secondary science lead engineering time To Tololo Inter-American Observatory, Chile – Blanco 4-meter telesco DECam, Wide-Field CCD Imager contributing scientist Began Dark Energy Survey Year 6 Observations Trona Peak Observatory, TX – Robotic 0.6-meter telescope filicon Digital CCD, primary science lead Intainwood Observatory, TX – 0.4-meter telescope filicon Digital CCD, primary science lead M. Keck Observatory, HI – Keck I & II, 10-meter telescopes During W. M. Keck Visting Scholar appointment: MOSFIRE, NIR Spectrograph, shadowed E. Manjavacas LRIS, Optical Spectrometer, shadowed J. Walawender	12 night 3 night ope 8 night 3 night 5 night 10+ night 40+ night 1 night 1 night
- N	primary or secondary science lead engineering time To Tololo Inter-American Observatory, Chile – Blanco 4-meter telesco DECam, Wide-Field CCD Imager contributing scientist Began Dark Energy Survey Year 6 Observations Trona Peak Observatory, TX – Robotic 0.6-meter telescope filicon Digital CCD, primary science lead Intainwood Observatory, TX – 0.4-meter telescope filicon Digital CCD, primary science lead M. Keck Observatory, HI – Keck I & II, 10-meter telescopes During W. M. Keck Visting Scholar appointment: MOSFIRE, NIR Spectrograph, shadowed E. Manjavacas	12 night 3 night ope 8 night 3 night 5 night 10+ night 40+ night 1 night 1 night
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Conferences & Presentations

Science Presentations	
Talk: Texas A&M Astrosymposium [COVID-19]	17 August 2020
Talk: SAZERAC Virtual Conference [COVID-19] (recording)	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: Texas A&M 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: Texas A&M 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
Led by D. Calzetti & R. Kennicutt	
Poster: Frank N. Bash Symposium (Austin, TX)	24–25 October 2017
Talk: 1-min; Frank N. Bash Symposium (Austin, TX)	24 October 2017
Talk: Texas A&M Astrosymposium (College Station, TX)	25 August 2017
Talk: ZFOURGE Team Meeting (MAGNOLIA, TX)	24-28 October 2016
Talk: Texas A&M Astrosymposium (college station, tx)	26 August 2016
Outreach Presentations	
Outreach Presentations Invited: (anticipated) W.M. Keck Observatory Public Talk	9 December 2020
Invited: (anticipated) W.M. Keck Observatory Public Talk	9 December 2020 1 July 2020
Invited: (anticipated) W.M. Keck Observatory Public Talk Invited: <i>The Earth is Flat on Planet Pluto</i> , David Sobral (recording)	1 July 2020
Invited: (anticipated) W.M. Keck Observatory Public Talk Invited: <i>The Earth is Flat on Planet Pluto</i> , David Sobral (recording) Talk: Warrior Scholar Project (COLLEGE STATION, TX) [COVID-19]	1 July 2020 26 June 2020
Invited: (anticipated) W.M. Keck Observatory Public Talk Invited: The Earth is Flat on Planet Pluto, David Sobral (recording) Talk: Warrior Scholar Project (COLLEGE STATION, TX) [COVID-19] Talk: Astronomy on Tap (BRYAN, TX) [COVID-19] (recording)	1 July 2020
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Undergraduate Presentations (cont.)

Poster*: Creative Works Symposium (GEORGETOWN, TX) Poster*: King Creativity Symposium (GEORGETOWN, TX) April 2014 April 2014

Southwestern, 2014 - 2015

- * Poster paired with Display Table
- ♦ Conference for Undergraduate Women in Physics

SERVICE & OUTREACH

DERVICE & OUTREACH	
International Level — #UniqueScientists, Editing Director	since May 2019
National Level —————	
Letters to a Pre-Scientist	Scientist Pen Pal, since Fall 2018
Warrior Scholar Project*: STEM Week TA	Texas A&M, since Summer 2018
University Level —————	
APS CUWiP 2020 Organizing Committee (for TAMU) ▷	Texas A&M, $2019 - 2020$
RetainU Undergraduate Mentoring Program	Texas A&M, $2017 - 2018$
March for Science, Meet a Scientist	Texas A&M, April 2017
King Creativity Grant Allocation Committee	Southwestern, Fall 2014
Department Level ————	
Departmental Graduate Records Committee	Texas A&M, since Spring 2020
Mentoring & Advising Graduates in an Inclusive Community © Co-founder, procuring IRB approval	Texas A&M, since Fall 2019
Astronomy Graduate Student Representative (for Faculty)	Texas A&M, since Fall 2018
Departmental Climate and Diversity Committee	Texas A&M, since Spring 2018
Society for the Under-represented in Physics & Astronomy **Co-founder, grant-funded*	Texas A&M, since 2016
TAMU Physics & Engineering Festival (annual event)	Texas A&M, since Spring 2017
Dept. Moving Transition Team Member	Southwestern, $2015 - 2016$
Local Community Level ———————————————————————————————————	
Preparing Under-represented Students for Grad School Mentoring recent grads of Talented & Gifted Magnet (3) Mentoring recent grads of Southwestern University (4)	2016 - 2018
Astronomy Outreach, Astronomy on Tap (monthly event) Astronomy Outreach, Camp For All (annual event) TAMU Star Parties (occasional volunteer)	Texas A&M, since Spring 2018 Texas A&M, since Spring 2017 Texas A&M, Fall 2016
Fountainwood Observatory Public Nights Physics Outreach, Williamson County Middle Schools	Southwestern, $2012 - 2016$ Southwestern, $2013 - 2016$

Seaperch Program Mentor

PANELS

(invited) Graduate Students, APS April Meeting Activism & Outreach, TAMU CUWiP 2020 Undergraduate Advice, Intro. to Physics Seminar [COVID-19], 18 April 2020 Texas A&M, 18 January 2020 Texas A&M, 26 April 2017

PUBLICATIONS

Refereed Publications

First Author -

Near-Infrared Spectroscopy of Galaxies During Reionization: Measuring CIII] in a Galaxy at z = 7.5 // arXiv:1905.08812 (10 citations)

The Astrophysical Journal, Volume 879, Issue 2, article id. 70, 16 pp. (2019)

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

Co-Author

The properties of He II 1640 emitters at $z \sim 2.5$ -5 from the VANDELS survey // arXiv:1911.09999 The Astronomy & Astrophysics Journal, Volume 636, eid. A47, 21 pp. (2020) (5 citations) A. Saxena, L. Pentericci, M. Mirabelli, D. Schaerer, R. Schneider, F. Cullen, R. Amorin, A. Bolzonella, A. C. Bongiorno, and 17 additional authors, including **T. Hutchison**

Texas Spectroscopic Search for Ly α Emission at the End of Reionization II. The Deepest Near-Infrared Spectroscopic Observation at z > 7 // arXiv:1901.05967 (4 citations)
The Astrophysical Journal, Volume 877, Issue 2, article id. 146, 9 pp. (2019)
I. Jung, S. Finkelstein, M. Dickinson, T. Hutchison, R. Larson, C. Papovich, L. Pentericci, M. Song, H. Ferguson, Y. Guo, S. Malhotra, B. Mobasher, J. Rhoads, V. Tilvi, I. Wold

Contributing Scientist

Space Telescope and Optical Reverberation Mapping Project. IX. Velocity-Delay Maps for Broad Emission Lines in NGC 5548

Submitted to the Astrophysical Journal (ApJ)

K. Horne, G. De Rosa, B. M. Peterson, A. J. Barth, M. M. Peterson, and 153 additional authors, 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 The Astrophysical Journal, Volume 881, Issue 2, article id. 153, 36 pp. (2019) G. A. Kriss, G. De Rosa, J. Ely, B. M. Peterson, J. Kaastra, and 163 additional authors, including **T. Hutchison**.

Continuum Reverberation Mapping of the Accretion Disks in Two Seyfert 1 Galaxies The Astrophysical Journal, Volume 854, Issue 2, article id. 107, 24 pp. (2018) M. Fausnaugh, D. Starkey, K. Horne, C. Kochanek, B. Peterson, and 67 additional authors, including **T. Hutchison**.

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Space Telescope and Optical Reverberation Mapping Project. VII. Understanding the Ultraviolet Anomaly in NGC 5548 with X-Ray Spectroscopy

The Astrophysical Journal, Volume 846, Issue 1, article id. 55, 24 pp. (2017)

S. Mathur, A. Gupta, K. Page, R. Pogge, Y. Krongold, M. Goad, and 144 additional authors, including **T. Hutchison**.

Reverberation Mapping of Optical Emission Lines in Five Active Galaxies
The Astrophysical Journal, Volume 840, Issue 2, article id. 97, 27 pp. (2017)
M. Fausnaugh, C. Grier, M. Bentz, K. Denney, G. De Rosa, B. Peterson, and 65 additional authors, including **T. Hutchison**.

Space Telescope and Optical Reverberation Mapping Project. IV. Anomalous Behavior of the Broad Ultraviolet Emission Lines in NGC 5548

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

M. Goad, T. Korista, G. De Rosa, A. Kriss, and 96 additional authors, including T. Hutchison.

Space Telescope and Optical Reverberation Mapping Project. III. Optical Continuum Emission and Broadband Time Delays in NGC 5548

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

M. Fausnaugh, K. Denney, A. Barth, M. Bentz, M. Bottorff, and 92 additional authors, including **T. Hutchison**.

WHITE PAPERS

Contributing Scientist -

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 additional authors, including **T. Hutchison**. // arXiv:1903.04518

TEACHING EXPERIENCE

Assistant

Warrior Scholar Project: STEM Week

ASTR 314: Survey of Astronomy ASTR 101: Honors, Basic Astronomy

ASTR 314: Survey of Astronomy ASTR 101: Honors, Basic Astronomy

Advisor, Independent Study Undergraduate Astronomy Texas A&M, Summer 2018, 2019,

[COVID-19] 2020 Texas A&M, Spring 2018

Texas A&M, Fall 2017
Texas A&M, Spring 2017

Texas A&M, Fall 2016

Southwestern, 2016 Southwestern, Fall 2014 Taylor A. Hutchison 7

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

Website Architect

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

Programming

Fluent: Python, Tex, Visual Basic Experience with: html, C++, bash, IDL, R

Press Coverage

Texas A&M Today, "Stargazing", 1 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", 28 June 2019

CERTIFICATES

OGAPS Intermediate Leadership Development Certificate	$4 \mathrm{\ May\ } 2017$
OGAPS Basic Leadership Development Certificate	$4~\mathrm{May}~2017$

Professional Societies

2019 – present
2018-present
2014-present
2015-present