Taylor Alexandra Hutchison

Department of Physics & Astronomy Texas A&M University College Station, TX 77843-4242

Advisor: Dr. Mark Bottorff

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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) M.S. in Astronomy Texas A&M University Department of Physics and Astronomy College Station, TX 77843-4242 Advisor: Dr. Casey Papovich	(expected) May 2022 May 2019
B.S. in Physics, Minor in Mathematics Southwestern University 1001 E. University Ave. Georgetown, TX 78626	May 2016

APPOINTMENTS

Graduate Student (under Dr. C. Papovich)	Texas A&M, 2016 – present
Keck Visiting Scholar (under Dr. J. Walawender)	Keck Observatory, Fall 2019
Research Assistant (UNDER DR. M. BOTTORFF) King Creativity Scholar (UNDER O.L. FELLOWS) King Creativity Scholar (UNDER DR. S. ALEXANDER) Research Assistant (UNDER DR. S. ALEXANDER)	Southwestern, $2014 - 2016$ Southwestern, $2014 - 2015$ Southwestern, $2013 - 2014$ Southwestern, Summer 2013

Honors

- SOME 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
	Ruter Scholar Award Distinction Award	$2012 - 2016 \\ 2012 - 2016$
	King Creativity Award King Creativity Scholar	Spring 2014 2014, 2015

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

AWARDS & GRANTS

FY21 FY20		
	NASA-Awarded Keck Principal Investigator Data Award	\$17.2K
	NASA-Awarded Keck Principal Investigator Data Award	\$17.2K
FY20	Dr. Joseph Newton Graduate Service Award	\$1K
FY20-22	Texas A&M 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+	Dept. of Physics & Astronomy Diversity Grant	$1.5 \mathrm{K}/\mathrm{yr}$
	The Society for the Under-represented in Physics \mathcal{E} Astronomy	
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	$2K \times 2$
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OBSERVING	G Programs / Experience	
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Conferences & Presentations

Science Presentations	
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 Talk: Warrior Scholar Project (COLLEGE STATION, TX) [COVID-19]	26 June 2020
Talk: Warrior Scholar Project (COLLEGE STATION, TX) [COVID-19]	26 June 2020 24 June 2020
Talk: Warrior Scholar Project (College Station, TX) [COVID-19] Talk: Astronomy on Tap (Bryan, TX) [COVID-19] (recording)	24 June 2020
Talk: Warrior Scholar Project (COLLEGE STATION, TX) [COVID-19] Talk: Astronomy on Tap (BRYAN, TX) [COVID-19] (recording) Talk: Astronomy on Tap (AUSTIN, TX) [COVID-19] (recording)	24 June 2020 31 March 2020
Talk: Warrior Scholar Project (COLLEGE STATION, TX) [COVID-19] Talk: Astronomy on Tap (BRYAN, TX) [COVID-19] (recording) Talk: Astronomy on Tap (AUSTIN, TX) [COVID-19] (recording) Talk: Society for Physics Students (COLLEGE STATION, TX) [COVID-19]	24 June 2020 31 March 2020 24 March 2020
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 $^{^{\}ast}$ Poster paired with Display Table

SERVICE & OUTREACH

International Level -

#UniqueScientists, Editing Director

National Level -

Letters to a Pre-Scientist

Warrior Scholar Project*: STEM Week TA

University Level -

APS CUWiP 2020 Organizing Committee (for TAMU) [▷]

RetainU Undergraduate Mentoring Program

March for Science, Meet a Scientist

King Creativity Grant Allocation Committee

Department Level -

Departmental Graduate Records Committee

Mentoring & Advising Graduates in an Inclusive Community $^{\odot}$ Co-founder, procuring IRB approval

Astronomy Graduate Student Representative (for Faculty)

Departmental Climate and Diversity Committee

Society for the Under-represented in Physics & Astronomy

Co-founder, grant-funded

TAMU Physics & Engineering Festival (annual event)

Dept. Moving Transition Team Member

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)

Astronomy Outreach, Astronomy on Tap (monthly event) Astronomy Outreach, Camp For All (annual event)

TAMU Star Parties (occasional volunteer)

Fountainwood Observatory Public Nights

Physics Outreach, Williamson County Middle Schools

Seaperch Program Mentor

since May 2019

Scientist Pen Pal, since Fall 2018 Texas A&M, June 2018, 2019

Texas A&M, since Spring 2019 Texas A&M, 2017 – 2018 Texas A&M, April 2017

Southwestern, Fall 2014

Texas A&M, since Spring 2020 Texas A&M, since Fall 2019

Texas A&M, since Fall 2018 Texas A&M, since Spring 2018 Texas A&M, since 2016

Texas A&M, since Spring 2017 Southwestern, 2015 – 2016

2016 - 2018

Texas A&M, since Spring 2018
Texas A&M, since Spring 2017
Texas A&M, Fall 2016
Southwestern, 2012 – 2016
Southwestern, 2013 – 2016
Southwestern, 2014 – 2015

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

^{*} warrior-scholar.org $\ \ ^{\triangleright}$ TAMU CUWiP – cuwip.tamu.edu

PUBLICATIONS

Refereed Publications

First Author

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

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 Submitted to the Astronomy & Astrophysics (A&A) journal

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

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. 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**.

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.

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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,

WHITE PAPERS

Contributing Scientist

including **T. Hutchison**.

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 Texas A&M, Summer 2018, 2019, [COVID-19] 2020

ASTR 314: Survey of Astronomy

ASTR 101: Honors, Basic Astronomy

ASTR 314: Survey of Astronomy

Texas A&M, Fall 2017

Texas A&M, Spring 2017

Texas A&M, Spring 2017

Texas A&M, Spring 2017

ASTR 101: Honors, Basic Astronomy

Texas A&M, Fall 2016

Advisor, Independent Study

Southwestern, 2016

Undergraduate Astronomy

Southwestern, Fall 2014

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

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

Programming

 $\begin{array}{ccc} & \text{Fluent:} & \text{Python, Tex, Visual Basic} \\ \text{Experience with:} & \text{html, C++, bash, IDL, R} \end{array}$

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

CERTIFICATES	
OGAPS Intermediate Leadership Development Certificate OGAPS Basic Leadership Development Certificate	4 May 2017 4 May 2017
Professional Societies	, and the second
American Astronomical Society	$2019-\mathrm{present}$
Sigma Xi, The Scientific Research Honor Society	$2018-{ m present}$
American Physical Society	$2014-\mathrm{present}$
Alpha Delta Pi (academic sorority)	2015 - present