# Taylor Alexandra Hutchison

## **NSF** Graduate Fellow

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#### RESEARCH INTERESTS

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

### EDUCATION

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

Texas A&M University (TAMU)

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

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 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

FΥ	Z21	NASA-Awarded Keck Principal Investigator Data Award	\$17.2K
FY	720	NASA-Awarded Keck Principal Investigator Data Award	\$17.2K
FY	720	Dr. Joseph Newton Graduate Service Award	\$1K
	720-22	Texas A&M University Prestigious Fellowship Scholar	\$1K / yr
	720	Mitchell Institute EPO: Astronomy on Tap	\$1.2K
	720	Mitchell Institute EPO: Conferences for Undergraduate Women in Physics	\$30K
	719	Office of Graduate and Professional Studies Travel Award	\$750
	719	Leadership in Equity and Diversity (LEAD) Award	\$500
	719	Mitchell Institute EPO: Astronomy on Tap	\$600
	19–22	NSF Graduate Research Fellowship	\$138K
	119–22	<del>_</del>	
ГІ	111+	Dept. of Physics & Astronomy Diversity Grant	$1.5 \mathrm{K}/\mathrm{yr}$
T73	717 00	The Society for the Under-represented in Physics & Astronomy	Φ1.07 FIZ
F Y	17-20	Graduate Diversity Excellence Fellowship	\$127.7K
FY	713–16	Ruter Scholar Award	\$94K
FY	713–16	Distinction Award	\$40K
FY	714	King Creativity Award	\$1.5K
FY	714,15	King Creativity Scholar	$2K \times 2$
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OBS	SERVING	Programs / General Experience	
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Science Presentations	
Poster: (anticip.) SPIE Telescopes & Instrumentation [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 2019
Talk: TAMU 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: 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
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: 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: 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
Tunk. Militare, Building four Professionar Wessiae (recording)	0 11pm 2020
Outreach Presentations	
Invited: (anticip.) W.M. Keck Observatory Public Talk	9 December 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-1	9] 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 \(^{\text{o}}\) (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

<sup>\*</sup> Poster paired with Display Table

# SERVICE & OUTREACH

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International Level — #UniqueScientists, Editing Director	since May 2019
National Level ———————————————————————————————————	
Letters to a Pre-Scientist	Pen Pal, since Fall 2018
Warrior Scholar Project*: STEM Week TA	TAMU, since Summer 2018
University Level —	
APS CUWiP 2020 Organizing Committee (for TAMU) <sup>▷</sup>	TAMU, 2019 - 2020
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 Level —	
Departmental Graduate Records Committee	TAMU, since Spring 2020
Mentoring & Advising Graduates in an Inclusive Community ©	,
Co-founder, procuring IRB approval	
Astronomy Graduate Student Representative (for Faculty)	TAMU, since Fall 2018
Departmental Climate and Diversity Committee	TAMU, 2018 - 2020
Society for the Under-represented in Physics & Astronomy Co-founder, grant-funded	TAMU, since 2016
TAMU Physics & Engineering Festival (annual event)	TAMU, 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)	TAMU, since Spring 2018
Astronomy Outreach, Camp For All (annual event)	TAMU, since Spring 2017
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, $2014 - 2015$

<sup>\*</sup> warrior-scholar.org  $\ ^{\triangleright}$  TAMU CUWiP – cuwip.tamu.edu  $^{\odot}$  MAGIC – tamu-magic.github.io  $\ ^{\diamondsuit}$  SUPA – tx.ag/supa

#### PANELS

(invited) Graduate Students, APS April Meeting Activism & Outreach, TAMU CUWiP 2020 Undergraduate Advice, Intro. to Physics Seminar [COVID-19], 18 April 2020 TAMU, 18 January 2020 TAMU, 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 (13 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

Texas Spectroscopic Search for Ly $\alpha$  Emission at the End of Reionization III. The Ly $\alpha$  Equivalent-width Distribution and Ionized Structures at z > 7 // arXiv:2009.10092 (1 citations) Accepted by the Astrophysical Journal (ApJ)

I. Jung, S. Finkelstein, M. Dickinson, **T. Hutchison**, R. Larson, C. Papovich, L. Pentericci, A. Straughn, Y. Guo, S. Malhotra, J. Rhoads, M. Song, V. Tilvi, I. Wold

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) (6 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 $\alpha$  Emission at the End of Reionization II. The Deepest Near-Infrared Spectroscopic Observation at z > 7 // arXiv:1901.05967 (5 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. XII. Broad-Line Region Modeling of NGC 5548

Accepted by the Astrophysical Journal (ApJ)

P. R. Williams, A. Pancoast, T. Treu, B. J. Brewer, B. M. Peterson, A. J. Barth, and 153 additional authors, including **T. Hutchison**.

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, B. 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**.

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

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#### TEACHING EXPERIENCE

#### Assistant

Warrior Scholar Project: STEM Week TAMU, Summer 2018, 2019,

[COVID-19] 2020

ASTR 314: Survey of Astronomy

ASTR 101: Honors, Basic Astronomy

ASTR 314: Survey of Astronomy

TAMU, Fall 2017

TAMU, Spring 2017

TAMU, Spring 2017

TAMU, Spring 2017

TAMU, Fall 2016

Advisor, Independent Study

Southwestern, 2016

Undergraduate Astronomy

Southwestern, Fall 2014

### 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 May 2017 OGAPS Basic Leadership Development Certificate 4 May 2017

# PROFESSIONAL SOCIETIES

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