Megan T. Tillman

Department of Physics & Astronomy Rutgers University Piscataway, NJ 08854

Education	Rutgers University, Piscataway, NJ202PhD Candidate202	20 - present
	Texas A&M University , College Station, TX C. Bachelor of Science in Physics (Honors) – Minors in Math and Astrophysic	lass of 2020 cs
Awards and Honors	National Science Foundation Graduate Research Fellowship Prog Honorable mention.	gram 2022
	Faculty Student Achievement Award Department of Physics and Astronomy Texas A&M	2020
	CIERA Undergraduate Research Fellow Northwestern University 10-week funded research work – continuing project CIERA REU. 20	ts from the 019 ど 2020
	Department of Physics and Astronomy Undergraduate Travel G \$500 Funded by the Phillip and Doris Moses Ranch Fund.	r ant <i>2019</i>
	Mitchell Institute Travel Grant \$500 Funded by the Mitchell Institute.	2019
	Philip and Doris Moses Fund Honors Scholarship\$1000 yearly scholarship awarded for Departmental Honors in Physics and Astronomyprogram (total of \$2000).2018 & 2019	
	CIERA Research Experience for Undergraduates Northwestern University NSF funded 10-week REU.	2018
Outreach & Teaching Experience	MiPA Web Master - Rutgers University Minorities in Physics and Astr master.	onomy web 2023
	Graduate Teaching Assistant - Rutgers University Department of H Astronomy teaching assistant.	Physics and 2020 - 2022
	Undergraduate Teaching Fellow - Texas A&M University Department and Astronomy teaching assistant.	t of Physics 2019 - 2020
	Discover, Explore, and Enjoy Physics and Engineering (DEEP) - uate demonstrator and demonstration designer – physics education and Texas A&M University.	Undergrad- outreach at 2017 - 2019
Talks & Presentations	Max Planck Institute for Astrophysics Cosmology Seminar "The effects of AGN and stellar feedback on the low-z Lyman- α forest." Max Planck Institute, Garching, Germany	June 2023
	Modelling of Multiphase Astrophysical Media "AGN Feedback Effects on the Low Redshift Lyman- α Forest in Simba" Aspenstein Castle, Lake Kochel, Germany	June 2023
	Simba Collaboration Workshop "AGN Feedback Effects on the Low Redshift Lyman- α Forest in Simba"	

Flatiron Institute, Simons Foundation, NYC	May 2023		
Galaxy Formation and Evolution in the Data Science Era "Too Hot to Handle: The Role of Supermassive Black Holes in Hea shift Integralactic Medium"	ating the Low Red-		
Kavli Institute for Theoretical Physics, UC Santa Barbara, CA	March 2023		
Joint KITP-CCA Workshop "AGN Feedback Effects on the Low Redshift Lyman- α Forest" Flatiron Institute, Simons Foundation, NYC	January 2023		
CAMELS Workshop "AGN Feedback Effects on the Low Redshift Lyman- α Forest" Flatiron Institute, Simons Foundation, NYC	December 2022		
American Physical Society Mid-Atlantic Section Meeting "Supermassive Black Holes and the Low Redshift Lyman- α Forest." (poster presentation)	"		
Rutgers University	December 2021		
American Astronomical Society Meeting 235 "Running Late: The observable implications of delayed supermassive black hole growth." (10-minute talk)			
Honolulu Convention Center	January 2020		
Society of Physics Students Meeting "Developing the Quasar Luminosity Function for FIRE Simulations Texas A&M University - College Station	s" February 2019		
Conference for Undergraduate Women in Physics (CUWil "Testing Models of Supermassive Black Hole Evolution with the G Function" (poster)	P) Quasar Luminosity		
Texas A&M University - Corpus Christi	January 2019		
American Astronomical Society Meeting 233 "Testing Models of Supermassive Black Hole Evolution with the G Function" (poster)	Quasar Luminosity		
Washington State Convention Center	January 2019		
Texas Astronomy Undergraduate Research Symposium "The Quasar Luminosity Function From FIRE Simulations"			
University of Texas at Austin	October 2018		
CIERA Research Experience for Undergraduates "Testing Models of Supermassive Black Hole Evolution with the G	Quasar Luminosity		
Northwestern University & Adler Planetarium, Chicago Illinois	August 2018		
Megan Tillman, Blakesley Burkhart, Stephanie Tonnesen, Sim Bryan, Daniel Anglés-Alcázar, Sultan Hassan, Rachel S. Somervi Federico Marinacci, Lars Hernquist, and Mark Vogelsberger 2023. AGN and Stellar Feedback Effects in the Intergalactic Medium via Lyman- α Forest", submitted to ApJ, arXiv:2307.06360	eon Bird, Greg L. ille, Romeel Davé, "An Exploration of a the Low Redshift		
Megan Tillman , Blakesley Burkhart, Stephanie Tonnesen, Sim Bryan, Daniel Anglés-Alcázar, Romeel Davé, Shy Genel, 2023. <i>"I active galactic nuclei feedback affects the low redshift Lyman-α fores</i>	eon Bird, Greg L. Efficient long-range t", ApJL, 945, L17,		

Publications

arXiv:2210.02467

Amanda Butler Contreras, Erwin T. Lau, Benjamin D. Oppenheimer, Ákos Bogdán, Megan Tillman, Daisuke Nagai, Orsolya E. Kovács, Blakesley Burkhart, 2022. "Xray absorption lines in the warm-hot intergalactic medium: probing Chandra observations with the CAMEL simulations", MNRAS, Volume 519, Issue 2, Pages 2251-2261, arXiv:2211.15675

Blakesley Burkhart, **Megan Tillman**, Alexander B. Gurvich, Simeon Bird, Stephanie Tonnesen, Greg L. Bryan, Lars E. Hernquist, Rachel S. Somerville, 2022. "*The low redshift Lyman-\alpha Forest as a constraint for models of AGN feedback.*", ApJL, 933, L46, arXiv:2204.09712.

Francisco Villaescusa-Navarro et. al. including Megan Tillman, 2022. "The CAMELS project: public data release", arXiv:2201.01300.

Megan Tillman, Sarah Wellons, Claude-André Faucher-Giguère, Luke Zoltan Kelley, and Daniel Anglés-Alcázar, 2022. "Running Late: Testing Delayed Supermassive Black Hole Growth Models Against the Quasar Luminosity Function", MNRAS, Volume 511, Issue 4, Pages 5756–5767, arXiv:2109.14647.

Jonathan H. Cohn, Joel Leja, Kim-Vy H. Tran, Ben Forrest, Benjamin D. Johnson, **Megan Tillman**, Leo Alcorn, Charlie Conroy, Karl Glazebrook, Glenn G. Kacprzak, Daniel D. Kelson, Themiya Nanayakkara, Casey Papovich, Pieter G. van Dokkum, Tiantian Yuan, 2018. "*ZFOURGE Extreme 5007Å Emission May Be a Common Early-lifetime Phase for Star-forming Galaxies at z* >2.5", ApJ, 86, 141C, arXiv:1811.00025.