SINCLAIRE M. MANNING

CURRICULUM VITAE

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EDUCATION

The University of Texas at Austin

(2015-2021)

Ph.D. in Astronomy, Awarded August 2021

Department of Astronomy, Advisor: Prof. Caitlin Casey

Howard University, Washington, D.C.

(2010-2015)

B.S. in Physics, magna cum laude, May 2015

B.A. in Spanish, magna cum laude, May 2015

PROFESSIONAL APPOINTMENTS

NASA Hubble Postdoctoral Fellow, UMass Amherst (2021–)

Graduate Research Assistant , UT Austin (2015–2016, 2019–2021) NSF Graduate Research Fellow, UT Austin (2016–2019)

Undergraduate Research Assistant, University of Wisconsin - Madison (Jun–Aug 2014)

Summer Student Research Assistant, NRAO Charlottesville, VA (Jun-Aug 2012,2013)

RESEARCH INTERESTS

Observational galaxy formation and evolution, including: dusty star-forming galaxies (DSFGs), optically/near-infrared dark DSFGs, (sub)millimeter observations, multiwavelength galaxy morphologies, dust content, mergers, AGN fraction.

FELLOWSHIPS, GRANTS, AWARDS, & HONORS

ALMA Ambassador Program, NRAO (2022)

\$10,000 Supports independent research and hosting of ALMA proposal workshop.

NASA Hubble Fellowship Program, STScI (2021)

\$270,000 Postdoctoral fellowship awarded over three years.

Student Observing Support (SOS) program, NRAO (2020)

\$18,000 Supplemental funding for ALMA Cycles 6 and 7.

Graduate Research Opportunities Worldwide (GROW), NSF (2019)

\$5,000 Travel grant to work as a visiting PhD student at DAWN in Copenhagen, Denmark.

Hubble Space Telescope General Observer Grant, Cycle 27, NASA (2019)

\$126,813, Co-I, PI: Casey

UT Graduate School Professional Development Award

(2019)

\$600 Travel support to attend ISEE PDP workshops.

Fred Goetting Memorial Endowed Presidential Scholarship, UT Austin	(2018)
\$10,000 Recognizing a graduate student for outstanding service to the department.	
Beth Brown Award for Outstanding Oral Presentation in Astronomy	(2018)
Honorable Mention, National Society of Black Physicists (NSBP.)	
Graduate Research Fellow, National Science Foundation	(2016-2019)
\$102,000 Graduate fellowship awarded over three years.	

TELESCOPE TIME AWARDED

LMT , Ultra-Distant, Dusty, or Dead? Breaking the Degeneracy with LMT/TolTEC Observations, $\sim 4\mathrm{h}$	ı (2022)
HET , Spectroscopic confirmation of μ Jy radio sources in SuperCLASS, \sim 30 h	(2017)
As Co-I:	
JWST, COSMOS-Web: A Webb Cosmic Origins Survey, ~225 h	(2021)
HST , Rest-frame UV/optical Morphologies of Obscured Radio Starbursts, ${\sim}10\mathrm{h}$	(2019)
ALMA , Obscuration to Reionization: A Blank-Field 2 mm Deep Survey in COSMOS, \sim 50 h	(2018)
ALMA , The nature of 3 mm-selected sources: the highest redshift dusty star-forming galaxies?, $\sim 19h$	(2018)

Observational Experience: 5 nights observing at the James Clerk Maxwell Telescope.

COLLOQUIA AND INVITED TALKS

Carnegie Observatories, colloquium	(Oct. 2023)
Texas A&M University, invited seminar	(Oct. 2022)
 University of Wisconsin Madison Dept. of Astronomy, invited seminar 	(May 2022)
UMass Amherst Dept. of Astronomy, colloquium	(Apr. 2022)
 University of Connecticut Dept. of Physics, invited seminar 	(Apr. 2022)
Boston University Dept. of Astronomy, colloquium	(Mar. 2022)
 UC Irvine Astrophysics Seminar (Virtual), invited seminar 	(Jan. 2021)
 JILA/CU Boulder Astrophysics Seminar (Virtual), invited seminar 	(Oct. 2020)
• Syracuse University Dept. of Physics (Virtual), colloquium	(Oct. 2020)

PROFESSIONAL SERVICE

Service to Scientific Community

Panel Reviews:

•	LMT, 2023-ST TAC	(2022)
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• *HST*, Cycle 30 TAC (2021)

Proposal Review for ALMA distributed reviews Cycles 8, 9, 10

Service to UMass Community

FCAD Colloquium Organizing Committee (2022-)

TEACHING AND MENTORING

Research	Mentors	hin
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•	Aidan Cloonan, First Year Inc	lependent Research Project ((2023-)	ļ
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Undergraduate Students

• Azmé Tariq, Measuring UV/Optical Sizes of Radio-Selected DSFGs with HST (2023–)

Guest Lecturer:

 ASTRO 301: Writing About Astronomy 	(UMass, Fall 2022)
 ASTRO 111: Introduction to Astronomy 	(Smith College, Fall 2022)
• ASTRO 100: Exploring the Universe	(UMass, Spring 2022)

Training:

• Institute for Scientist and Engineer Educators Professional Development (ISEE PDP) (2018-2019) Program

NAC VII Organizing Committee	(2020)
Graduate Student Mentor for Undergraduates, GUMMY Program, UT Austin	(2019-2020)
Seminar Coordinator for TAURUS Program, UT Austin	(2016–2020)
Graduate Student Mentor for TAURUS, UT Austin	(2016-2020)
NAC Peer Mentor	(2015–2021)

PUBLIC OUTREACH

Eureka! Workshop, UMass Amherst	(2022-2023)
Astronomy on Tap State College, Guest Speaker (Virtual)	(2020)
Austin Astronomical Society, Guest Speaker (Austin, TX)	(2019)
 Astronomy on Tap ATX, Guest Speaker (Austin, TX) 	(2019)
 AUSPREP Career Awareness Seminar, Guest Speaker (Austin, TX) 	(2017)
 Astronomy on Tap ATX, Guest Speaker (Austin, TX) 	(2017)
Girl Day at UT Austin, Volunteer (Austin, TX)	(2016–2017)
 NAC IV Meeting, Alumni Voices Speaker (Washington, D.C.) 	(2016)

ADDITIONAL EXPERIENCE

Computing: Experience with IDL and Python

Surveys and Large Collaborations:

•	JWST COSMOS-Web Survey	(2021–)
•	SuperCLASS Collaboration	(2015-)

Professional Memberships:

•	American Astronomical Society, Member	(2016-)
•	National Society of Black Physicists, Member	(2015-)

PUBLICATIONS

A Near-Infrared Faint, Far-Infrared Luminous Dusty Galaxy at $z \sim 5$ in COSMOS-Web McKinney, J., **Manning, S.M.**, et al. (2023), ApJ, 956, 72.

COSMOS-Web: An Overview of the JWST Cosmic Origins Survey

Casey, C.M. & Kartaltepe, J.S. et al. including Manning, S.M., (2023), ApJ, 954, 31

Uncovering a Massive $z \sim 7.7$ Galaxy Hosting a Heavily Obscured Radio-Loud QSO Candidate in COSMOS-Web

Lambrides, E. et al. including Manning, S.M., (2023), arXiv:2308.12823

Probing Cold Gas in a Massive, Compact Star-forming Galaxy at z = 6 Zavala, J. et al. including **Manning**, **S.M.**, (2023), ApJ, 933, 242.

Characterization of Two 2 mm-detected Optically-Obscured Dusty Star-Forming Galaxies **Manning, S.M.** et al., (2022), ApJ, 925, 23.

Mapping Obscuration to Reionization with ALMA (MORA): 2 mm Efficiently Selects the Highest-redshift Obscured Galaxies

Casey, C.M., Zavala, J., **Manning, S.M.**, et al., (2021), ApJ, 923, 215.

The Evolution of the IR Luminosity Function and Dust-obscured Star Formation in the Last 13 Billion Years

Zavala, J., Casey, C.M., **Manning, S.M.**, et al., (2021), ApJ, 909, 165.

Physical Drivers of the Luminosity-Weighted Dust Temperatures in High-Redshift Galaxies Burnham, A.D., Casey, C.M., Zavala, J.A., Manning, S.M., et al., (2021), 910, 89.

SuperCLASS – II. Photometric Redshifts and Characteristics of Spatially-Resolved μJy Radio Sources **Manning, S.M.** et al., (2020), MNRAS, 495, 1724.

SuperCLASS – I. The Super CLuster Assisted Shear Survey: Project Overview and First Data Release Battye, R.A., et al. including **Manning**, **S.M.**, (2020), MNRAS, 495, 1706.

SuperCLASS - III. Weak Lensing from Radio and Optical Observations in Data Release 1 Harrison, I. et al. including **Manning**, **S.M.**, (2020), MNRAS, 495, 1737.

Physical Characterization of an Unlensed Dusty Star-Forming Galaxy at z=5.85 Casey, C.M. et al. including **Manning**, **S.M.**, (2019), ApJ, 887, 1.

Massive Cluster Formation and Destruction in Luminous Infrared Galaxies in GOALS Linden, S.T., Evans, A.S. et al. including **Manning**, **S.M.**, (2017), ApJ, 843, 2.

Posters

Lighting Up the Dark: Understanding the Hidden Nature of NIR-dark Galaxies, Mapping the Invisible Universe, Lorentz Center Workshop, Netherlands (2022)

Radio Morphologies of Dust Obscured Starbursts in the SuperCLASS Field, IAU Symposium 352, Portugal (2019)

Radio Morphologies of Dust Obscured Starbursts in the SuperCLASS Field, AAS 231 (2019) Probing the Magnetic Fields in the Environment of MgII Absorbers, AAS 225 (2015) Age-Dating Optically Visible Star Clusters in Galaxy Merger NGC 5257/5258, AAS 221 (2013)