SAM EDWARD CUTLER				
CONTACT INFORMATION	LGRT 623 UMass Amherst Department of Astronomy 710 North Pleasant Street Amherst, MA 01003 USA	E-mail: secutler@umass.ee Website: samecutler.github Github: github.com/samec Twitter: secutler	.io	
EDUCATION	 Ph.D. in Astronomy, University of Massachusetts Amherst (Expected) GPA: 3.958 / 4.0 Advisors: Kate Whitaker and Mauro Giavalisco B.S. in Physics & Mathematics, University of Connecticut (May 2019) GPA: 3.967 / 4.0 Physics GPA: 4.0 / 4.0 Minor: Astrophysics Honors Program, Thesis: "Examining High Redshift Rotation Curves and Dark Matter Profiles Outside the Local Universe" 			
Positions	Undergraduate Research Assistant, Univ. of Connecticut 2016–201		2019–Present Summer 2022 2016–2019 Summer 2017	
SKILLS	Data Handling: Photometry: aperture photometry (SourceExtractor/SEP, AperPy, Photutils) PSF matching (empirical PSF generation, Grizli, shapelets, PyPHER), SED fitting (Prospector, Eazy) Morphology: profile fitting (GALFIT, statmorph)			
	Code: Python: numpy, matplotlib, so	cipy, astropy (expert)		
TEACHING	Graduate Researcher, Cosmic DAWN-IRES Career Skills S Undergraduate seminars		Summer 2022	
	Teaching Assistant, UMass An Writing About Astronomy Undergraduate course for astro The Solar System Undergraduate course with lab	onomy majors Fall	Spring 2021 2020-Spring 2021	
	Student Supervision High School: Avery Minter Undergraduate: Leonardo De	rake (UMass Amherst)		

SAM CUTLER — CURRICULUM VITAE

OTHER COTEEN	COMMITTEE TO THE COMMIT		
OUTREACH	UMass Astronomy CORE: Helped create the UMass Astronomy Committee on Outreach and Research Engagement with other graduate students, with the goal of centralizing current programs and creating new programs designed to address the "leaky pipeline" and encourage interest in astronomy. SPARK Camp: Held stargazing sessions and promoted STEM careers for SPAR a youth camp for girls interested in STEM majors, in Summer 2018 and 2019.		
HONORS & AWARDS	MA Space Grant Grad. Research Fellowship, NASA/MASGC Best Undergraduate Poster, Univ. of Connecticut Babbidge Scholar, Univ. of Connecticut CT Space Grant Undergrad. Research Fellowship, NASA/CTSGC Michael Cantara Undergrad. Research Award, Univ. of Connecticut New England Scholar, Univ. of Connecticut 2017		
PRESENTATIONS AND TALKS	AAS 241 Parallel Session , Seattle, WA, USA, contributed talk. (1/2021) "Measuring Star-Formation Histories at $z \sim 2$ with a Semi-Resolved Approach"		
	COSMOS Collaboration Meeting , Paris, FR, contributed talk. (7/2022) "Galaxy Structural Properties and Star-Formation Histories with 3D-DASH"		
	DAWN Cake Talk , Copenhagen, DK, invited talk. (6/2022) "The Resolved Star-Formation Histories of $z \sim 2$ Galaxies"		
	Second Year Presentation , Amherst, MA, USA, invited talk. (9/2021) "The Differential Assembly of the Centers and Outskirts of Main-Sequence Galaxies at $z \sim 2.3$ "		
	DAWN Cake Talk , Virtual, invited talk. (2/2021) "Diagnosing DASH: The COSMOS-DASH Morphological Catalog and Insights on the Low-Mass Size-Mass Relation"		
	AAS 237 Poster Session , Virtual, poster. (1/2021) "Diagnosing DASH: A Morphological Catalog for the COSMOS-DASH Survey"		
	First Year Presentation , Amherst, MA, USA, invited talk. (9/2020) "Diagnosing DASH: The COSMOS-DASH Morphological Catalog and Insights on the Low-Mass Size-Mass Relation"		
	UConn Physics Poster Session , Storrs, CT, USA, poster. (4/2019) "Examining High Redshift Rotation Curves and Dark Matter Profiles Outside the Local Universe"		

"Dark Matter: Seeing the Unseeable"

Keene Astronomy Lecture, Keene, NH, USA, public lecture.

(3/2018)

SAM CUTLER — CURRICULUM VITAE

AAS 231 Poster Session, National Harbor, MD, USA, poster. (1/2018)"Examining High Redshift Rotation Curves and Dark Matter Profiles Outside the Local Universe"

UConn Astronomy Seminar, Storrs, CT, USA, invited talk. (10/2017)"Examining High Redshift Rotation Curves and Dark Matter Profiles Outside the Local Universe"

RELEASES

MEDIA & PRESS • News Article, How UMass Astronomers Helped the Hubble Space Telescope Take the Widest Photo of the Universe Ever (6/2022)

PUBLICATIONS (ADS LIBRARY) TOTAL: 6 1st Author: 2

- 1. Weaver, J., Cutler, S. E., et al., 2023, The Astrophysical Journal Supplements, submitted, "The UNCOVER Survey: A first-look HST+JWST catalog of 50,000 galaxies near Abell 2744 and beyond".
- 2. Bezanson, R.,..., Cutler, S. E., et al., 2022, The Astrophysical Journal, submitted, "The JWST UNCOVER Treasury survey: Ultradeep NIRSpec and NIRCam ObserVations before the Epoch of Reionization".
- 3. Park, M.,..., Cutler, S. E., et al., 2022, The Astrophysical Journal, submitted, "Rapid Quenching of Galaxies at Cosmic Noon".
- 4. Cutler, S. E., et al., 2022, The Astrophysical Journal, submitted, "The Differential Assembly of the Centers and Outskirts of Main-Sequence Galaxies at $z \sim 2.3$ ".
- 5. Mowla, L., Cutler, S. E., et al., 2022, The Astrophysical Journal, 933, 129M, "3D-DASH: The Widest Near-Infrared Hubble Space Telescope Survey".
- 6. Cutler, S. E., et al., 2022, The Astrophysical Journal, 925, 34C, "Diagnosing DASH: A Catalog of Structural Properties for the COSMOS-DASH Survey".