

SAM EDWARD CUTLER

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

SAM CUTLER — CURRICULUM VITAE

OUTREACH	UMass Astronomy CORE: <i>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.</i> SPARK Camp: <i>Held stargazing sessions and promoted STEM careers for SPARK, a youth camp for girls interested in STEM majors, in Summer 2018 and 2019.</i>	
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	2021 2018 2016, 2018 2018 2017 2017
PRESENTATIONS AND TALKS	COSMOS Collaboration Meeting , Paris, FR, contributed talk. (7/2022) “ <i>Galaxy Structural Properties and Star-Formation Histories with 3D-DASH</i> ” DAWN Cake Talk , Copenhagen, DK, invited talk. (6/2022) “ <i>The Resolved Star-Formation Histories of $z \sim 2$ Galaxies</i> ” Second Year Presentation , Amherst, MA, USA, invited talk. (9/2021) “ <i>The Differential Assembly of the Centers and Outskirts of Main-Sequence Galaxies at $z \sim 2.3$</i> ” DAWN Cake Talk , Virtual, invited talk. (2/2021) “ <i>Diagnosing DASH: The COSMOS-DASH Morphological Catalog and Insights on the Low-Mass Size-Mass Relation</i> ” AAS 237 Poster Session , Virtual, Poster. (1/2021) “ <i>Diagnosing DASH: A Morphological Catalog for the COSMOS-DASH Survey</i> ” First Year Presentation , Amherst, MA, USA, invited talk. (9/2020) “ <i>Diagnosing DASH: The COSMOS-DASH Morphological Catalog and Insights on the Low-Mass Size-Mass Relation</i> ” UConn Physics Poster Session , Storrs, CT, USA, poster. (4/2019) “ <i>Examining High Redshift Rotation Curves and Dark Matter Profiles Outside the Local Universe</i> ” Keene Public Library , Keene, NH, USA, public lecture. (3/2018) “ <i>Dark Matter: Seeing the Unseeable</i> ” AAS 231 Poster Session , National Harbor, MD, USA, poster. (1/2018) “ <i>Examining High Redshift Rotation Curves and Dark Matter Profiles Outside the Local Universe</i> ”	

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

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

PUBLICATIONS (ADS LIBRARY)
TOTAL: 5
1ST AUTHOR: 2

1. Bezanson, R.,..., **Cutler, S. E.**, et al., 2022, *The Astrophysical Journal*, submitted, “The JWST UNCOVER Treasury survey: Ultradeep NIRSpec and NIRCам ObserVations before the Epoch of Reionization”.
2. Park, M.,..., **Cutler, S. E.**, et al., 2022, *The Astrophysical Journal*, submitted, “Rapid Quenching of Galaxies at Cosmic Noon”.
3. **Cutler, S. E.**, et al., 2022, *The Astrophysical Journal*, submitted, “The Differential Assembly of the Centers and Outskirts of Main-Sequence Galaxies at $z \sim 2.3$ ”.
4. Mowla, L., **Cutler, S. E.**, et al., 2022, *The Astrophysical Journal*, “3D-DASH: The Widest Near-Infrared Hubble Space Telescope Survey”.
5. **Cutler, S. E.**, et al., 2022, *The Astrophysical Journal*, 925, 34C, “Diagnosing DASH: A Catalog of Structural Properties for the COSMOS-DASH Survey”.