

SAM EDWARD CUTLER

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CONTACT INFORMATION	<p>LGRT 623 UMass Amherst Department of Astronomy 710 North Pleasant Street Amherst, MA 01003 USA</p>	<p><i>Personal E-mail:</i> <a href="mailto:sam.cutler@cox.net">sam.cutler@cox.net</a> <i>Institutional E-mail:</i> <a href="mailto:secutler@umass.edu">secutler@umass.edu</a> <i>Website:</i> <a href="http://samecutler.github.io">samecutler.github.io</a> <i>Github:</i> <a href="https://github.com/samecutler">github.com/samecutler</a> <i>ORCID:</i> 0000-0002-7031-2865</p>
EDUCATION	<p><b>Ph.D.</b> in Astronomy, University of Massachusetts Amherst (September 2025) GPA: 3.963 / 4.0 Ph.D. Advisor: Kate Whitaker <b>M.S.</b> in Astronomy, University of Massachusetts Amherst (September 2023) <b>B.S.</b> in Physics &amp; Mathematics, University of Connecticut (May 2019) GPA: 3.967 / 4.0</p>	
POSITIONS	<p><b>Graduate Research Assistant</b>, Univ. of Massachusetts Amherst 2019–2025 <b>DAWN-IRES Graduate Researcher</b>, Cosmic Dawn Center Summer 2022 <b>Undergraduate Research Assistant</b>, Univ. of Connecticut 2016–2019 <b>SURF Intern</b>, Dark Cosmology Center Summer 2017</p>	
SKILLS	<p><i>Data Handling:</i> <b>Photometry:</b> aperture photometry (<a href="#">SourceExtractor/SEP</a>, <a href="#">Aperpy</a>, <a href="#">Photutils</a>), PSF matching (empirical PSF generation, <a href="#">Grizli</a>, shapelets, <a href="#">PyPHER</a>), SED fitting (<a href="#">Prospector</a>, <a href="#">Eazy</a>) <b>Morphology:</b> profile fitting (<a href="#">GALFIT</a>, <a href="#">statmorph</a>)</p> <p><i>Code:</i> <b>Python:</b> numpy, matplotlib, scipy, astropy (expert)</p>	
TEACHING	<p><i>Lecturer, UMass Amherst</i> <b>UMass Precollege Summer Astronomy Course</b> 2020-2024 Summer course for high school students with lab and lecture components</p> <hr/> <p><i>Graduate Researcher, Cosmic Dawn Center</i> <b>DAWN-IRES Career Skills Seminars</b> Summer 2022 Undergraduate seminars</p> <hr/> <p><i>Teaching Assistant, UMass Amherst</i> <b>Writing About Astronomy</b> Spring 2021 Undergraduate course for astronomy majors <b>The Solar System</b> Fall 2020-Spring 2021 Undergraduate course with lab component for non-majors</p>	

## SAM CUTLER — CURRICULUM VITAE

### *Student Supervision*

**Undergraduate:** *UMass Amherst* - Leonardo Drake, Lilian Wright, Ayesha Abdullah; *Cosmic Dawn Center* - Allan Vanzandt, Eric Rumsfeld, Hanga Andras-Letanovszky, Rebeca Reyes Carrión, Lauren Elicker

**High School:** Avery Minter

OUTREACH	<p><b>Astronomy on Tap - Western Mass:</b> <i>Co-led the creation of the Western Massachusetts chapter of Astronomy on Tap, including finding a venue, organizing shows, managing the group's social media, hosting, and presenting at shows.</i></p> <p><b>SPARK Camp:</b> <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></p>	
HONORS & AWARDS	MA Space Grant Grad. Research Fellowship, NASA/MASGC 2021 Best Undergraduate Poster, Univ. of Connecticut 2018 Babbidge Scholar, Univ. of Connecticut 2016, 2018 CT Space Grant Undergrad. Research Fellowship, NASA/CTSGC 2018 Michael Cantara Undergrad. Research Award, Univ. of Connecticut 2017 New England Scholar, Univ. of Connecticut 2017	
SUCCESSFUL GRANTS & PROPOSALS	<ul style="list-style-type: none"> <li>• Hubble Space Telescope Cycle 32 Medium Program GO-17730 “Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field” (72 orbits; Co-I; July 2024-present)</li> <li>• James Webb Space Telescope Cycle 3 Small Program GO-6405 “Clumpy Relics: The First Spectroscopic Confirmation of Globular Clusters at <math>z \sim 3</math>” (20.3 hours; PI; November 2024 – present)</li> <li>• Hubble Space Telescope Cycle 28 Large Treasury Program GO-16259 “3D-DASH: A Wide Field WFC3/IR Survey of COSMOS” (259 orbits; Co-I; May 2021 – April 2024)</li> </ul>	
PRESENTATIONS AND TALKS	<p><b>Santa Cruz Galaxy Workshop</b>, Santa Cruz, CA, poster. (8/2025)  <i>“The Structure and Formation Histories of Low-Mass Quiescent Galaxies in Abell 2744”</i></p> <p><b>UC Riverside Aurora Webinar</b>, Virtual, invited talk. (3/2025)  <i>“The Structure and Formation Histories of Low-Mass Quiescent Galaxies in Abell 2744”</i></p> <p><b>Tufts Astronomy Seminar</b>, Medford, MA, USA, invited talk. (2/2025)  <i>“The Structure and Formation Histories of Low-Mass Quiescent Galaxies in Abell 2744”</i></p>	

**AAS 245 Par. Session**, Nat'l Harbor, MD, USA, contributed talk. (1/2025)  
*"The Structure and Formation Histories of Low-Mass Quiescent Galaxies in Abell 2744"*

**Tinsley Workshop**, New Haven, CT, USA, contributed talk. (10/2024)  
*"The JWST Perspective of Low-Mass Quenching"*

**Extreme Galaxies Conference**, Reykjavik, IS, poster. (6/2023)  
*"Two Distinct Classes of Quiescent Galaxies Revealed by Sizes and Morphologies at Cosmic Noon in JWST PRIMER and UNCOVER"*

**AAS 243 Par. Session**, New Orleans, LA, USA, contributed talk. (1/2024)  
*"Low-Mass Quiescent Galaxy Sizes in the JWST PRIMER and UNCOVER Treasury Programs"*

**JWST First Light Conference**, Cambridge, MA, USA, poster. (6/2023)  
*"Low Masses, Small Sizes, More Excitement: Preliminary Low-Mass Quiescent Galaxy Sizes from JWST PRIMER and UNCOVER"*

**AAS 241 Par. Session**, Seattle, WA, USA, contributed talk. (1/2023)  
*"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"*

**Keene Astronomy Lecture**, Keene, NH, USA, public lecture. (3/2018)  
*"Dark Matter: Seeing the Unseeable"*

**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*”

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MEDIA & PRESS RELEASES • **News Article, [The Remarkable Hubble Space Telescope: 35 Years Observing the Unknown in Space](#)** (5/2025)  
• **News Article, [How UMass Astronomers Helped the Hubble Space Telescope Take the Widest Photo of the Universe Ever](#)** (6/2022)

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## FIRST AUTHOR PUBLICATIONS (4) – [ADS LIBRARY](#)

Cutler, Sam E., John R. Weaver, et al. (Apr. 2025). “The Structure and Formation Histories of Low-Mass Quiescent Galaxies in the Abell 2744 Cluster Environment”. In: *arXiv e-prints*, arXiv:2504.10572, arXiv:2504.10572. DOI: [10.48550/arXiv.2504.10572](#). arXiv: [2504.10572](#) [[astro-ph.GA](#)].

Cutler, Sam E., Katherine E. Whitaker, John R. Weaver, et al. (June 2024). “Two Distinct Classes of Quiescent Galaxies at Cosmic Noon Revealed by JWST PRIMER and UNCOVER”. In: *ApJL* 967.2, L23, p. L23. DOI: [10.3847/2041-8213/ad464c](#). arXiv: [2312.15012](#) [[astro-ph.GA](#)].

Cutler, Sam E., Mauro Giavalisco, et al. (Mar. 2023). “The Differential Assembly History of the Centers and Outskirts of Main-sequence Galaxies at  $z \sim 2.3$ ”. In: *ApJ* 945.2, 97, p. 97. DOI: [10.3847/1538-4357/acb5e9](#). arXiv: [2208.01653](#) [[astro-ph.GA](#)].

Cutler, Sam E., Katherine E. Whitaker, Lamiya A. Mowla, et al. (Jan. 2022). “Diagnosing DASH: A Catalog of Structural Properties for the COSMOS-DASH Survey”. In: *ApJ* 925.1, 34, p. 34. DOI: [10.3847/1538-4357/ac341c](#). arXiv: [2111.14848](#) [[astro-ph.GA](#)].

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## OTHER PUBLICATIONS (41)

Bodansky, Sarah et al. (July 2025). “JWST+ALMA reveal the build up of stellar mass in the cores of dusty star-forming galaxies at Cosmic Noon”. In: *arXiv e-prints*, arXiv:2507.19472, arXiv:2507.19472. DOI: [10.48550/arXiv.2507.19472](#). arXiv: [2507.19472](#) [[astro-ph.GA](#)].

Clausen, Maike, Ivelina Momcheva, et al. (Jan. 2025). “The Evolution of Half-Mass Radii and Color Gradients for Young and Old Quiescent Galaxies at  $0.5 < z < 3$  with JWST/PRIMER”. In: *arXiv e-prints*, arXiv:2501.04788, arXiv:2501.04788. DOI: [10.48550/arXiv.2501.04788](#). arXiv: [2501.04788](#) [[astro-ph.GA](#)].

- de Graaff, Anna et al. (Feb. 2025). “Efficient formation of a massive quiescent galaxy at redshift 4.9”. In: *Nature Astronomy* 9, pp. 280–292. DOI: [10.1038/s41550-024-02424-3](https://doi.org/10.1038/s41550-024-02424-3). arXiv: [2404.05683](https://arxiv.org/abs/2404.05683) [astro-ph.GA].
- Fujimoto, Seiji, Rachel Bezanson, et al. (June 2025). “DUALZ—Deep UNCOVER-ALMA Legacy High-Z Survey”. In: *ApJS* 278.2, 45, p. 45. DOI: [10.3847/1538-4365/adc677](https://doi.org/10.3847/1538-4365/adc677). arXiv: [2309.07834](https://arxiv.org/abs/2309.07834) [astro-ph.GA].
- Furtak, Lukas J., Amy R. Secunda, et al. (June 2025). “Investigating photometric and spectroscopic variability in the multiply imaged little red dot A2744-QSO1”. In: *A&A* 698, A227, A227. DOI: [10.1051/0004-6361/202554110](https://doi.org/10.1051/0004-6361/202554110). arXiv: [2502.07875](https://arxiv.org/abs/2502.07875) [astro-ph.GA].
- Hamadouche, M. L. et al. (July 2025). “JWST PRIMER: strong evidence for the environmental quenching of low-mass galaxies out to  $z \simeq 2$ ”. In: *MNRAS* 541.1, pp. 463–475. DOI: [10.1093/mnras/staf971](https://doi.org/10.1093/mnras/staf971). arXiv: [2412.09592](https://arxiv.org/abs/2412.09592) [astro-ph.GA].
- Labbe, Ivo, Jenny E. Greene, Rachel Bezanson, et al. (Jan. 2025). “UNCOVER: Candidate Red Active Galactic Nuclei at  $3 < z < 7$  with JWST and ALMA”. In: *ApJ* 978.1, 92, p. 92. DOI: [10.3847/1538-4357/ad3551](https://doi.org/10.3847/1538-4357/ad3551). arXiv: [2306.07320](https://arxiv.org/abs/2306.07320) [astro-ph.GA].
- Lorenz, Brian et al. (July 2025). “Measuring Emission Lines with JWST MegaScience Medium Bands: A New Window into Dust and Star Formation at Cosmic Noon”. In: *ApJL* 988.1, L20, p. L20. DOI: [10.3847/2041-8213/ade887](https://doi.org/10.3847/2041-8213/ade887). arXiv: [2505.10632](https://arxiv.org/abs/2505.10632) [astro-ph.GA].
- Ma, Yilun et al. (Mar. 2025). “UNCOVER: 404 Error—Models Not Found for the Triply Imaged Little Red Dot A2744-QSO1”. In: *ApJ* 981.2, 191, p. 191. DOI: [10.3847/1538-4357/ada613](https://doi.org/10.3847/1538-4357/ada613). arXiv: [2410.06257](https://arxiv.org/abs/2410.06257) [astro-ph.GA].
- Miller, Tim B. et al. (Aug. 2025). “JWST UNCOVERs the Optical Size—Stellar Mass Relation at  $4 < z < 8$ : Rapid Growth in the Sizes of Low-mass Galaxies in the First Billion Years of the Universe”. In: *ApJ* 988.2, 196, p. 196. DOI: [10.3847/1538-4357/ade438](https://doi.org/10.3847/1538-4357/ade438). arXiv: [2412.06957](https://arxiv.org/abs/2412.06957) [astro-ph.GA].
- Mintz, Abby et al. (June 2025). “Taking a Break at Cosmic Noon: Continuum-selected Low-mass Galaxies Require Long Burst Cycles”. In: *arXiv e-prints*, arXiv:2506.16510, arXiv:2506.16510. DOI: [10.48550/arXiv.2506.16510](https://doi.org/10.48550/arXiv.2506.16510). arXiv: [2506.16510](https://arxiv.org/abs/2506.16510) [astro-ph.GA].
- Muzzin, Adam et al. (July 2025). “MINERVA: A NIRCам Medium Band and MIRI Imaging Survey to Unlock the Hidden Gems of the Distant Universe”. In: *arXiv e-prints*, arXiv:2507.19706, arXiv:2507.19706. DOI: [10.48550/arXiv.2507.19706](https://doi.org/10.48550/arXiv.2507.19706). arXiv: [2507.19706](https://arxiv.org/abs/2507.19706) [astro-ph.GA].
- Pan, Richard et al. (Apr. 2025). “UNCOVER/MegaScience: No Evidence of Environmental Quenching in a  $z \sim 2.6$  Proto-cluster”. In: *arXiv e-prints*, arXiv:2504.06334, arXiv:2504.06334. DOI: [10.48550/arXiv.2504.06334](https://doi.org/10.48550/arXiv.2504.06334). arXiv: [2504.06334](https://arxiv.org/abs/2504.06334) [astro-ph.GA].

- Price, Sedona H. et al. (Mar. 2025). “The UNCOVER Survey: First Release of Ultradeep JWST/NIRSpec PRISM Spectra for  $\sim 700$  Galaxies from  $z \sim 0.3$ –13 in A2744”. In: *ApJ* 982.1, 51, p. 51. DOI: [10.3847/1538-4357/adaec1](https://doi.org/10.3847/1538-4357/adaec1). arXiv: [2408.03920](https://arxiv.org/abs/2408.03920) [astro-ph.GA].
- Setton, David J., Jenny E. Greene, et al. (Mar. 2025). “A confirmed deficit of hot and cold dust emission in the most luminous Little Red Dots”. In: *arXiv e-prints*, arXiv:2503.02059, arXiv:2503.02059. DOI: [10.48550/arXiv.2503.02059](https://doi.org/10.48550/arXiv.2503.02059). arXiv: [2503.02059](https://arxiv.org/abs/2503.02059) [astro-ph.GA].
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- Treiber, Helena et al. (May 2025). “UNCOVERing the High-redshift AGN Population among Extreme UV Line Emitters”. In: *ApJ* 984.1, 93, p. 93. DOI: [10.3847/1538-4357/adc38f](https://doi.org/10.3847/1538-4357/adc38f). arXiv: [2409.12232](https://arxiv.org/abs/2409.12232) [astro-ph.GA].
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- Zhang, Yunchong et al. (Aug. 2025). “RUBIES spectroscopically confirms the high number density of quiescent galaxies from  $2 < z < 5$ ”. In: *arXiv e-prints*, arXiv:2508.08577, arXiv:2508.08577. DOI: [10.48550/arXiv.2508.08577](https://doi.org/10.48550/arXiv.2508.08577). arXiv: [2508.08577](https://arxiv.org/abs/2508.08577) [astro-ph.GA].
- Atek, Hakim et al. (Feb. 2024). “Most of the photons that reionized the Universe came from dwarf galaxies”. In: *Nature* 626.8001, pp. 975–978. DOI: [10.1038/s41586-024-07043-6](https://doi.org/10.1038/s41586-024-07043-6). arXiv: [2308.08540](https://arxiv.org/abs/2308.08540) [astro-ph.GA].
- Bezanson, Rachel et al. (Oct. 2024). “The JWST UNCOVER Treasury Survey: Ultradeep NIRSpec and NIRCам Observations before the Epoch of Reionization”. In: *ApJ* 974.1, 92, p. 92. DOI: [10.3847/1538-4357/ad66cf](https://doi.org/10.3847/1538-4357/ad66cf). arXiv: [2212.04026](https://arxiv.org/abs/2212.04026) [astro-ph.GA].
- Burgasser, Adam J. et al. (Feb. 2024). “UNCOVER: JWST Spectroscopy of Three Cold Brown Dwarfs at Kiloparsec-scale Distances”. In: *ApJ* 962.2, 177, p. 177. DOI: [10.3847/1538-4357/ad206f](https://doi.org/10.3847/1538-4357/ad206f). arXiv: [2308.12107](https://arxiv.org/abs/2308.12107) [astro-ph.SR].
- Chemerynska, Iryna et al. (Nov. 2024). “The Extreme Low-mass End of the Mass–Metallicity Relation at  $z \sim 7$ ”. In: *ApJL* 976.1, L15, p. L15. DOI: [10.3847/2041-8213/ad8dc9](https://doi.org/10.3847/2041-8213/ad8dc9). arXiv: [2407.17110](https://arxiv.org/abs/2407.17110) [astro-ph.GA].
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- Fujimoto, Seiji, Bingjie Wang, et al. (Dec. 2024). “UNCOVER: A NIRSpec Census of Lensed Galaxies at  $z = 8.50$ –13.08 Probing a High-AGN Frac-

- tion and Ionized Bubbles in the Shadow”. In: *ApJ* 977.2, 250, p. 250. DOI: [10.3847/1538-4357/ad9027](https://doi.org/10.3847/1538-4357/ad9027). arXiv: [2308.11609](https://arxiv.org/abs/2308.11609) [astro-ph.GA].
- Furtak, Lukas J., Ivo Labbé, et al. (Apr. 2024). “A high black-hole-to-host mass ratio in a lensed AGN in the early Universe”. In: *Nature* 628.8006, pp. 57–61. DOI: [10.1038/s41586-024-07184-8](https://doi.org/10.1038/s41586-024-07184-8). arXiv: [2308.05735](https://arxiv.org/abs/2308.05735) [astro-ph.GA].
- Greene, Jenny E. et al. (Mar. 2024). “UNCOVER Spectroscopy Confirms the Surprising Ubiquity of Active Galactic Nuclei in Red Sources at  $z \lesssim 5$ ”. In: *ApJ* 964.1, 39, p. 39. DOI: [10.3847/1538-4357/ad1e5f](https://doi.org/10.3847/1538-4357/ad1e5f). arXiv: [2309.05714](https://arxiv.org/abs/2309.05714) [astro-ph.GA].
- Kokorev, Vasily, Karina I. Caputi, et al. (June 2024). “A Census of Photometrically Selected Little Red Dots at  $4 < z < 9$  in JWST Blank Fields”. In: *ApJ* 968.1, 38, p. 38. DOI: [10.3847/1538-4357/ad4265](https://doi.org/10.3847/1538-4357/ad4265). arXiv: [2401.09981](https://arxiv.org/abs/2401.09981) [astro-ph.GA].
- Kriek, Mariska et al. (May 2024). “The Heavy Metal Survey: Star Formation Constraints and Dynamical Masses of 21 Massive Quiescent Galaxies at  $z = 1.3\text{--}2.3$ ”. In: *ApJ* 966.1, 36, p. 36. DOI: [10.3847/1538-4357/ad2df9](https://doi.org/10.3847/1538-4357/ad2df9). arXiv: [2311.16232](https://arxiv.org/abs/2311.16232) [astro-ph.GA].
- Labbe, Ivo, Jenny E. Greene, Jorrit Matthee, et al. (Dec. 2024). “An unambiguous AGN and a Balmer break in an Ultraluminous Little Red Dot at  $z=4.47$  from Ultradeep UNCOVER and All the Little Things Spectroscopy”. In: *arXiv e-prints*, arXiv:2412.04557, arXiv:2412.04557. DOI: [10.48550/arXiv.2412.04557](https://doi.org/10.48550/arXiv.2412.04557). arXiv: [2412.04557](https://arxiv.org/abs/2412.04557) [astro-ph.GA].
- Setton, David J., Gourav Khullar, et al. (Oct. 2024). “UNCOVER NIRSpec/PRISM Spectroscopy Unveils Evidence of Early Core Formation in a Massive, Centrally Dusty Quiescent Galaxy at  $z_{\text{spec}} = 3.97$ ”. In: *ApJ* 974.1, 145, p. 145. DOI: [10.3847/1538-4357/ad6a18](https://doi.org/10.3847/1538-4357/ad6a18). arXiv: [2402.05664](https://arxiv.org/abs/2402.05664) [astro-ph.GA].
- Suess, Katherine A. et al. (Nov. 2024). “Medium Bands, Mega Science: A JWST/NIRCam Medium-band Imaging Survey of A2744”. In: *ApJ* 976.1, 101, p. 101. DOI: [10.3847/1538-4357/ad75fe](https://doi.org/10.3847/1538-4357/ad75fe). arXiv: [2404.13132](https://arxiv.org/abs/2404.13132) [astro-ph.GA].
- Wang, Bingjie, Joel Leja, et al. (Mar. 2024). “Quantifying the Effects of Known Unknowns on Inferred High-redshift Galaxy Properties: Burstiness, IMF, and Nebular Physics”. In: *ApJ* 963.1, 74, p. 74. DOI: [10.3847/1538-4357/ad187c](https://doi.org/10.3847/1538-4357/ad187c). arXiv: [2310.06781](https://arxiv.org/abs/2310.06781) [astro-ph.GA].
- Weaver, John R. et al. (Jan. 2024). “The UNCOVER Survey: A First-look HST + JWST Catalog of 60,000 Galaxies near A2744 and beyond”. In: *ApJS* 270.1, 7, p. 7. DOI: [10.3847/1538-4365/ad07e0](https://doi.org/10.3847/1538-4365/ad07e0). arXiv: [2301.02671](https://arxiv.org/abs/2301.02671) [astro-ph.GA].
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- Goulding, Andy D. et al. (Sept. 2023). “UNCOVER: The Growth of the First Massive Black Holes from JWST/NIRSpec-Spectroscopic Redshift Confir-



- mation of an X-Ray Luminous AGN at  $z = 10.1$ ". In: *ApJL* 955.1, L24, p. L24. DOI: [10.3847/2041-8213/acf7c5](https://doi.org/10.3847/2041-8213/acf7c5). arXiv: [2308.02750](https://arxiv.org/abs/2308.02750) [astro-ph.GA].
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