

John R. Weaver

Curriculum Vitae

University of Massachusetts Amherst
Department of Astronomy
Amherst, Massachusetts, USA
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Nationality: American

Education

- 2018–2022 **PhD Astrophysics**, *Cosmic Dawn Center, Univ. of Copenhagen*, Copenhagen, DK.
"COSMOS2020: Insights into galaxy assembly and evolution over the first 10 billion years"
Supervisors: Sune Toft (DAWN); Peter Capak (fmr. IPAC) & Dave Sanders (IfA)
Prizes: Best Astrophysics Thesis in Denmark & Outstanding Thesis in the Faculty of Science
- 2013–2018 **MPhys (Honours) Astrophysics**, *University of St Andrews*, St Andrews, UK.
"Exploring the origins of bimodality: post-starburst galaxies at $z < 0.1$ "
First Class Honours | Supervisor: Vivienne Wild | Prize: Best Astrophysics Thesis
- 2012–2013 **Astronomy Scholar**, *Connecticut College*, New London, US.
GPA 4.0/4.0 – 1 year accredited scholarship program
- 2009–2013 **High School Diploma**, *The Williams School*, New London, US.

Research Positions

- 2022–present **Postdoctoral Research Associate**, *University of Massachusetts*.
UNCOVER | Group Leader: Kate Whitaker, with I. Labbé, R. Bezanson, and J. Leja
- Spring 2020 **Visiting Graduate Student**, *Institute for Astronomy*.
The Hawaii 2-0 Survey | Supervisor: Dave Sanders
- Spring 2019 **Visiting Graduate Student**, *California Institute of Technology*.
COSMOS2020 & The Farmer | Supervisor: Peter Capak
- Winter 2018 **Visiting Graduate Student**, *Institut d'Astrophysique de Paris*.
The Spitzer Legacy Survey | Supervisors: Henry McCracken & Andrea Moneti
- 2016–2019 **Margaret Mayall Fellow**, *American Association of Variable Star Observers*.
Construction of the AAVSO Spectroscopy Database | Supervisor: Stella Kafka
- 2016–2018 **Research Assistant**, *University of St Andrews*.
Variable quasars in SDSS | Supervisor: Keith Horne
- Summer 2017 **Research Student**, *Max Planck Institute for Astronomy*.
IFU spectroscopy of merger remnant | Supervisor: Bernd Husemann
- Summer 2016 **LEAPS Research Student**, *Leiden Observatory*.
Search for $z > 6$ galaxies in 3DHST | Supervisor: Michael Maseda
- Summer 2015 **REU Research Student**, *Maria Mitchell Observatory*.
Star-formation in a local dlrr galaxy | Supervisors: Michael West and Michael Gregg

Collaborations & Survey Teams

- COSMOS: Cosmic Evolution Survey
- DAWN: Cosmic Dawn Survey
- Euclid Consortium
- UNCOVER
- Beasts in the Bubbles (PI)
- BUFFALO

Skills

Data Handling **photometry** – image processing (Swarp, PSFEx, grizli), profile-fitting photometry (own software: [The Farmer](#)), aperture photometry (SourceExtractor, own software: [aperpy](#)), SED fitting (EAzY, LePhare, Bagpipes), morphologies (The Tractor, statmorph), quasar time-series (own software)
spectroscopy – long-slit, grism, and integral field; line fluxes (msaexp), kinematics (pPFX, PyParadise), Bayesian line ID (own software), stellar population inference (own software: [pyGappy](#))

Facilities **CANDIDE HPC** at IAP, Paris - 312 cores; Team Member - 1M+ hours use
Hawaii-2-0 HPC at IfA, Hawaii - 100 cores; Team Member - 1M+ hours use

Code Python (numpy/matplotlib/scipy/astropy; expert), FORTRAN (proficient)

Software [The Farmer](#), [aperpy](#), [pyGappy](#) | [Github](#)

Web Python-Django, MySQL, HTML/CSS

Awards & Scholarships

2023 Best Astrophysics PhD Thesis in Denmark
The Instrument Center for Danish Astrophysics

2023 Outstanding PhD Thesis Award
University of Copenhagen Faculty of Science

2021 Best Science Course Award; Teacher Assistant
Applied Statistics | University of Copenhagen

2018 Best Astrophysics Masters Thesis
University of St Andrews

2016-2018 Margaret Mayall Fellowship
American Association of Variable Star Observers

2017 Juno Champion & Athena Swan Equality/Inclusion Awards (application co-author)
Equality & Diversity Committee, University of St Andrews School of Physics

2013 International Undergraduate Scholarship
University of St Andrews

Others: Univ. of St Andrews Deans' List, Society of Physics Students Travel Award, Gunvor Lund Scholarship, New London Scholarship, Mystic Seaport Museum Service Award

Recent Presentations (33 Talks, 10 Posters)

Jun., 2023 **First Light**, Boston, MA, contributed poster.
Perspectives on precision photometry to explore the early red universe with JWST

Jul., 2022 **COSMOS Collaboration Meeting**, Paris, FR, contributed talk.
COSMOS2020: Catalogs and the evolution of the Galaxy Stellar Mass Function

Mar., 2022 **St Andrews Galaxy Group**, St Andrews, UK, invited talk.
What can quasar variability teach us about the physics of accretion discs?

Mar., 2022 **Pan-SED Fitting Forum**, virtual, invited review talk.
The status of photometric redshifts and their use in COSMOS2020

Jan., 2022 **Quasars and Galaxies Through Cosmic Time**, virtual, contributed talk.
COSMOS2020: Insights into galaxy formation and growth in the first 10 billion years

Jan., 2022 **Leiden Observatory Lunch Talk**, Leiden, NL, invited talk.
COSMOS2020: Insights into galaxy formation and growth in the first 10 billion years
See [website](#) for full listing.

Observations

Operational Experience

Imaging **Subaru/HSC**
Spectroscopy **Keck/DEIMOS/MOSFIRE, Nordic Optical Telescope/ALFOSC**

Selected Approved Programs (1 PI, 26 CO-I; PI First)

- 2021 **PI**, *Beasts in the Bubbles: Characterizing ultra-luminous Galaxies at Cosmic Dawn.*
JWST/NIRSpec IFU | Cycle 1 | 14.3hrs (\$260K)
- 2023 **CO-I**, *Medium bands, Mega Science: spatially-resolved $R \sim 15$ spectrophotometry at $z = 0.3 - 12$.*
JWST/NIRCam | Cycle 2 | 50.1hrs | PI: W. Suess
- 2023 **CO-I**, *MAGNIF: Medium-band Astrophysics with the Grism of NIRCam in Frontier Fields.*
JWST/NIRCamWFSS | Cycle 2 | 38.8hrs | PI: F. Sun
- 2023 **CO-I**, *A deep dive into the physics of the first massive quiescent galaxies in the Universe.*
JWST/NIRCam/NIRSpec | Cycle 2 | 47.6hrs | PI: F. Valentino
- 2022 **CO-I**, *A comprehensive study of the most massive proto-cluster in COSMOS.*
ALMA | 23.3h | PI: J. Zavala
- 2022-2024 **CO-I**, *WERLS: Webb Epoch of Reionization Lyman-alpha Survey.*
NASA Key Strategic Mission Support
Keck/MOSFIRE+LRIS | 29N | PI: C. Casey & J. Kartaltepe
- 2022 **CO-I**, *Compact oddballs in COSMOS: The Faint End of the $z > 6$ Quasar Luminosity Function and the Growth of Ionized Bubbles.*
HST | Cycle 30 | 14 Orbits | PI: A. Faisst
- 2021 **CO-I**, *Galaxy Protoclusters as Drivers of Cosmic Reionization.*
JWST/NIRCam/NIRSpec | Cycle 1 | 25.2/9.7hrs | PI: C. Martin
- See [website](#) for full listing.

Teaching & Supervision

Guest Lecturer, University of Massachusetts Amherst

2023 **A330: Topics in Astrophysics.**
Undergraduate Research Course

Teaching Assistant, University of Copenhagen

2021 **Nordic Optical Telescope Summer School.**
Postgraduate Level Course | [Website](#)

2019, 2020 **Applied Statistics: From Data to Results.**
Postgraduate Level Course | Best Science Course 2021 | [Website](#)

Student Supervision (**bold**=primary supervisor)

- Graduate Sina Taamoli (UCR '23-), Lukas Zalesky (IfA '22-), Sam Cutler (UMass '22-), Natalie Allen (DAWN '21-)
- Masters Lukas Zalesky (IfA '20-'22; project prize), Athansios Anastasiou (DAWN '19-'20)
- Undergraduate Zachary Webb (UMass '23), Ananya Sreelekha (UMass '22), Rasmus Damgaard Nielsen (DAWN '21), Tommy Clark (DAWN-SURF '21), **Christian Kragh Jespersen & Jonas Vinther** (DAWN '20), **Julia Tiller** (DAWN-REU '19), Albert Sneppen (DAWN '19)

Outreach

- 2019–2022 **Co-founder**, *Astronomy on Tap*, Copenhagen, DK | [Website](#).
2019–2021 **Rotation Writer**, *Astrobites*, Graduate Astrophysics Column | [Articles](#).
2014–2018 **Associate Observer**, *Frosty Drew Observatory*, Ninigrit Park, US.
2013–2018 **Observing Director**, *Univ. of St Andrews Astronomical Society*, St Andrews, UK.
2013–2014 **Writer Supervisor**, *SciNote*, Undergraduate science magazine | [Articles](#).
See [website](#) for a list of outreach talks.

Service & Leadership

[Referee for Academic Journals](#)

ApJ(S), MNRAS, A&A.

[Review Panel Service](#)

NASA Astrophysics, Large Millimeter Telescope TAC.

[Euclid Consortium](#)

2022–present **US Lead for Primeval Universe Working Group.**

[University of Massachusetts Amherst](#)

2022–present **Postdoc Representative, Five College Colloquium Coordinator.**

[University of St Andrews Student Union](#)

2014–2018 **Science Faculty President, Physics School President, Class Representative.**

School of Physics: [Physics Equality & Diversity Committee](#), Student-Staff Council (chair)

University-wide: Education Committee (co-chair), and the University Academic Council

[University of St Andrews Astronomical Society](#)

2014–2017 **President, Observing Director (×2), First Year Representative.**

[University of St Andrews Physics Society](#)

2014–2016 **Academic Lecture Convenor, Publicity Officer.**

Professional Memberships

- American Astronomical Society
- UK Institute of Physics
- Astronomers Without Borders
- UK Royal Astronomical Society
- European Astronomical Society
- The Planetary Society

Press

- Feb. 2023 **Boston Globe**, *Interview*.
New image from Webb Telescope, processed by UMass astronomers | [Article](#)
- Feb. 2022 **SYFY Wire**, *Interview*.
Black Holes Lurk in Literal Rings of Fire | [Article](#)
- Dec. 2021 **Weekendavisen**, *Interview with Danish magazine*.
Discussion of JWST Beasts Program in "A Golden Guiding Star" | [Article](#)
- Apr., 2018 **BBC Sky at Night Magazine**, *Cutting-Edge Section*.
"NGC 7252: capturing a cosmic car crash" | Available in print
- Mar., 2018 **Sci-News**, *Astronomy Section*.
"ESO's Very Large Telescope Observes Galaxy-Galaxy Merger Remnant" | [Article](#)
- Feb., 2018 **European Southern Observatory**, *Picture of the Week*.
"Mapping a Merger" | [Article](#)

Publications (75, 6 as first author, h-index: 21, citations: 1,476)

Online manuscripts are linked to their respective titles. Click to view.

Link to this listing on the Astrophysical Data Service (ADS):

<https://ui.adsabs.harvard.edu/public-libraries/ZLE6-g9VSRK43Gm-HPLh2A>

1. Price, S. H., Suess, K. A., Williams, C. C., et al. (2023), arXiv e-prints, arXiv:2310.02500, *UNCOVER: The rest ultraviolet to near infrared multiwavelength structures and dust distributions of sub-millimeter-detected galaxies in Abell 2744*.
2. **Weaver, J. R.**, Zalesky, L., Kokorev, V., et al. (2023), arXiv e-prints, arXiv:2310.07757, *The Farmer: A reproducible profile-fitting photometry package for deep galaxy surveys*.
3. Euclid Collaboration, Paltani, S., Coupon, J., et al. (2023), arXiv e-prints, arXiv:2310.14716, *Euclid preparation. XXXI. The effect of the variations in photometric passbands on photometric-redshift accuracy*.
4. McKinney, J., Manning, S. M., Cooper, O. R., et al. (2023), ApJ, 956, 72, *A Near-infrared-faint, Far-infrared-luminous Dusty Galaxy at $z = 5$ in COSMOS-Web*.
5. Wang, B., Leja, J., Labbé, I., et al. (2023), arXiv e-prints, arXiv:2310.01276, *The UNCOVER Survey: A First-Look HST+JWST Catalog of Galaxy Redshifts and Stellar Populations Properties Spanning $0.2 \lesssim z \lesssim 15$* .
6. Atek, H., Chemerynska, I., Wang, B., et al. (2023), MNRAS, 524, 5486, *JWST UNCOVER: discovery of $z > 9$ galaxy candidates behind the lensing cluster Abell 2744*.
7. Wang, B., Leja, J., Atek, H., et al. (2023), arXiv e-prints, arXiv:2310.06781, *Quantifying the Effects of Known Unknowns on Inferred High-redshift Galaxy Properties: Burstiness, the IMF, and Nebular Physics*.
8. Fujimoto, S., Bezanson, R., Labbe, I., et al. (2023), arXiv e-prints, arXiv:2309.07834, *DUALZ: Deep UNCOVER-ALMA Legacy High-Z Survey*.
9. Greene, J. E., Labbe, I., Goulding, A. D., et al. (2023), arXiv e-prints, arXiv:2309.05714, *UNCOVER spectroscopy confirms a surprising ubiquity of AGN in red galaxies at $z > 5$* .
10. Kokorev, V., Jin, S., Gómez-Guijarro, C., et al. (2023), A&A, 677, A172, *Dust giant: Extended and clumpy star-formation in a massive dusty galaxy at $z = 1.38$* .
11. **Weaver, J. R.**, Davidzon, I., Toft, S., et al. (2023), A&A, 677, A184, *COSMOS2020: The galaxy stellar mass function. The assembly and star formation cessation of galaxies at $0.2 < z \leq 7.5$* .
12. Casey, C. M., Kartaltepe, J. S., Drakos, N. E., et al. (2023), ApJ, 954, 31, *COSMOS-Web: An Overview of the JWST Cosmic Origins Survey*.
13. Goulding, A. D., Greene, J. E., Setton, D. J., et al. (2023), ApJL, 955, L24, *UNCOVER: The Growth of the First Massive Black Holes from JWST/NIRSpec-Spectroscopic Redshift Confirmation of an X-Ray Luminous AGN at $z = 10.1$* .
14. Chávez Ortiz, Ó. A., Finkelstein, S. L., Davis, D., et al. (2023), ApJ, 952, 110, *Introducing the Texas Euclid Survey for Ly α (TESLA) Survey: Initial Study Correlating Galaxy Properties to Ly α Emission*.
15. Kokorev, V., Fujimoto, S., Labbe, I., et al. (2023), arXiv e-prints, arXiv:2308.11610, *UNCOVER: A NIRSpec Identification of a Broad Line AGN at $z = 8.50$* .
16. Wang, B., Fujimoto, S., Labbe, I., et al. (2023), arXiv e-prints, arXiv:2308.03745, *UNCOVER: Illuminating the Early Universe – JWST/NIRSpec Confirmation of $z > 12$ Galaxies*.
17. Furtak, L. J., Labbé, I., Zitrin, A., et al. (2023), arXiv e-prints, arXiv:2308.05735, *A supermassive black hole in the early universe growing in the shadows*.
18. Furtak, L. J., Zitrin, A., Plat, A., et al. (2023), ApJ, 952, 142, *JWST UNCOVER: Extremely Red and Compact Object at $z = 7.6$ Triply Imaged by A2744*.
19. Fujimoto, S., Wang, B., **Weaver, J.**, et al. (2023), arXiv e-prints, arXiv:2308.11609, *UNCOVER: A NIRSpec Census of Lensed Galaxies at $z=8.50-13.08$ Probing a High AGN Fraction and Ionized Bubbles in the Shadow*.
20. Burgasser, A. J., Gerasimov, R., Bezanson, R., et al. (2023), arXiv e-prints, arXiv:2308.12107, *UNCOVER: JWST Spectroscopy of Three Cold Brown Dwarfs at Kiloparsec-scale Distances*.
21. Furtak, L. J., Zitrin, A., **Weaver, J. R.**, et al. (2023), MNRAS, 523, 4568, *UNCOVERing the extended strong lensing structures of Abell 2744 with the deepest JWST imaging*.
22. Atek, H., Labbé, I., Furtak, L. J., et al. (2023), arXiv e-prints, arXiv:2308.08540, *First spectro-*

- scopic observations of the galaxies that reionized the Universe.*
23. Casey, C. M., Akins, H. B., Shuntov, M., et al. (2023), arXiv e-prints, arXiv:2308.10932, *COSMOS-Web: Intrinsically Luminous $z_{sim}10$ Galaxy Candidates Test Early Stellar Mass Assembly.*
 24. Picouet, V., Arnouts, S., Le Floc'h, E., et al. (2023), A&A, 675, A164, *HSC-CLAUDS survey: The star formation rate functions since $z \sim 2$ and comparison with hydrodynamical simulations.*
 25. Lagattuta, D. J., Richard, J., Bauer, F. E., et al. (2023), MNRAS, 523, 1388, *Correction to: Pilot-WINGS: An extended MUSE view of the structure of Abell 370.*
 26. Pagul, A., Sánchez, F. J., Davidzon, I., et al. (2023), arXiv e-prints, arXiv:2307.04635, *Self-consistent Combined HST, K-band, and Spitzer Photometric Catalogs of the BUFFALO Survey Fields.*
 27. Ito, K., Valentino, F., Brammer, G., et al. (2023), arXiv e-prints, arXiv:2307.06994, *Size - Stellar Mass Relation and Morphology of Quiescent Galaxies at $z \geq 3$ in Public JWST Fields.*
 28. Gould, K. M. L., Brammer, G., Valentino, F., et al. (2023), AJ, 165, 248, *COSMOS2020: Exploring the Dawn of Quenching for Massive Galaxies at $3 < z < 5$ with a New Color-selection Method.*
 29. Barrufet, L., Oesch, P. A., Weibel, A., et al. (2023), MNRAS, 522, 449, *Unveiling the nature of infrared bright, optically dark galaxies with early JWST data.*
 30. Steinhardt, C. L., Rusakov, V., Clark, T. H., et al. (2023), ApJL, 949, L38, *The Earliest Stage of Galactic Star Formation.*
 31. Nelson, E. J., Suess, K. A., Bezanson, R., et al. (2023), ApJL, 948, L18, *JWST Reveals a Population of Ultrared, Flattened Galaxies at $2 \lesssim z \lesssim 6$ Previously Missed by HST.*
 32. Valentino, F., Brammer, G., Gould, K. M. L., et al. (2023), ApJ, 947, 20, *An Atlas of Color-selected Quiescent Galaxies at $z > 3$ in Public JWST Fields.*
 33. Euclid Collaboration, Bretonnière, H., Kuchner, U., et al. (2023), A&A, 671, A102, *Euclid preparation. XXVI. The Euclid Morphology Challenge: Towards structural parameters for billions of galaxies.*
 34. Euclid Collaboration, Merlin, E., Castellano, M., et al. (2023), A&A, 671, A101, *Euclid preparation. XXV. The Euclid Morphology Challenge: Towards model-fitting photometry for billions of galaxies.*
 35. Ito, K., Tanaka, M., Valentino, F., et al. (2023), ApJL, 945, L9, *COSMOS2020: Discovery of a Protocluster of Massive Quiescent Galaxies at $z = 2.77$.*
 36. Wang, B., Leja, J., Bezanson, R., et al. (2023), ApJL, 944, L58, *Inferring More from Less: Prospector as a Photometric Redshift Engine in the Era of JWST.*
 37. Jin, S., Sillassen, N. B., Magdis, G. E., et al. (2023), A&A, 670, L11, *Massive galaxy formation caught in action at $z \sim 5$ with JWST.*
 38. Desprez, G., Picouet, V., Moutard, T., et al. (2023), A&A, 670, A82, *Combining the CLAUDS and HSC-SSP surveys. $U + grizy(+YJHK_s)$ photometry and photometric redshifts for 18M galaxies in the 20 deg^2 of the HSC-SSP Deep and ultraDeep fields.*
 39. Scoville, N., Faisst, A., **Weaver, J.**, et al. (2023), ApJ, 943, 82, *Cosmic Evolution of Gas and Star Formation.*
 40. Brinch, M., Greve, T. R., **Weaver, J. R.**, et al. (2023), ApJ, 943, 153, *COSMOS2020: Identification of High- z Protocluster Candidates in COSMOS.*
 41. Leung, G. C. K., Finkelstein, S., **Weaver, J.**, et al. (2023), arXiv e-prints, arXiv:2301.00908, *The Spitzer-HETDEX Exploratory Large Area Survey. IV. Model-Based Multi-wavelength Photometric Catalog.*
 42. Chartab, N., Mobasher, B., Cooray, A. R., et al. (2023), ApJ, 942, 91, *A Machine-learning Approach to Predict Missing Flux Densities in Multiband Galaxy Surveys.*
 43. **Weaver, J. R.**, Cutler, S. E., Pan, R., et al. (2023), arXiv e-prints, arXiv:2301.02671, *The UNCOVER Survey: A first-look HST+JWST catalog of 60,000 galaxies near Abell 2744 and beyond.*
 44. Euclid Collaboration, van Mierlo, S. E., Caputi, K. I., et al. (2022), A&A, 668, C3, *Euclid preparation. XXI. Intermediate-redshift contaminants in the search for $z > 6$ galaxies within the Euclid Deep Survey (Corrigendum).*
 45. Otter, J. A., Rowlands, K., Alatalo, K., et al. (2022), ApJ, 941, 93, *Resolved Molecular Gas*

Observations of MaNGA Post-starbursts Reveal a Tumultuous Past.

46. Miller, T. B., Whitaker, K. E., Nelson, E. J., et al. (2022), ApJL, 941, L37, *Early JWST Imaging Reveals Strong Optical and NIR Color Gradients in Galaxies at $z \approx 2$ Driven Mostly by Dust.*
47. Kokorev, V., Brammer, G., Fujimoto, S., et al. (2022), ApJS, 263, 38, *ALMA Lensing Cluster Survey: Hubble Space Telescope and Spitzer Photometry of 33 Lensed Fields Built with CHARGE.*
48. Bezanson, R., Labbé, I., Whitaker, K. E., et al. (2022), arXiv e-prints, arXiv:2212.04026, *The JWST UNCOVER Treasury survey: Ultradeep NIRSPEC and NIRCAM Observations before the Epoch of Reionization.*
49. Scoville, N., Faisst, A., **Weaver, J.**, et al. (2022), arXiv e-prints, arXiv:2211.07836, *Evolution of Gas, and Star Formation from $z = 0$ to 5.*
50. Kauffmann, O. B., Ilbert, O., **Weaver, J. R.**, et al. (2022), A&A, 667, A65, *COSMOS2020: UV-selected galaxies at $z \geq 7.5$.*
51. Naidu, R. P., Oesch, P. A., van Dokkum, P., et al. (2022), ApJL, 940, L14, *Two Remarkably Luminous Galaxy Candidates at $z \approx 10 - 12$ Revealed by JWST.*
52. van Mierlo, S. E., Caputi, K. I., Ashby, M., et al. (2022), A&A, 666, A200, *Euclid preparation. XXI. Intermediate-redshift contaminants in the search for $z > 6$ galaxies within the Euclid Deep Survey.*
53. Suess, K. A., Bezanson, R., Nelson, E. J., et al. (2022), ApJL, 937, L33, *Rest-frame Near-infrared Sizes of Galaxies at Cosmic Noon: Objects in JWST's Mirror Are Smaller than They Appeared.*
54. Jin, S., Daddi, E., Magdis, G. E., et al. (2022), A&A, 665, A3, *Diagnosing deceptively cold dusty galaxies at $3.5 < z < 6$: A substantial population of compact starbursts with high infrared optical depths.*
55. Davidzon, I., Jegatheesan, K., Ilbert, O., et al. (2022), A&A, 665, A34, *COSMOS2020: Manifold learning to estimate physical parameters in large galaxy surveys.*
56. Sillassen, N. B., Jin, S., Magdis, G. E., et al. (2022), A&A, 665, L7, *A galaxy group candidate at $z \approx 3.7$ in the COSMOS field.*
57. Shuntov, M., McCracken, H. J., Gavazzi, R., et al. (2022), A&A, 664, A61, *COSMOS2020: Cosmic evolution of the stellar-to-halo mass relation for central and satellite galaxies up to $z \sim 5$.*
58. Naidu, R. P., Oesch, P. A., Setton, D. J., et al. (2022), arXiv e-prints, arXiv:2208.02794, *Schrodinger's Galaxy Candidate: Puzzlingly Luminous at $z \approx 17$, or Dusty/Quenched at $z \approx 5$?*
59. Steinhardt, C. L., Sneppen, A., Hensley, H., et al. (2022), ApJ, 934, 22, *Implications of a Temperature-dependent Initial Mass Function. III. Mass Growth and Quiescence.*
60. Lagattuta, D. J., Richard, J., Bauer, F. E., et al. (2022), MNRAS, 514, 497, *Pilot-WINGS: An extended MUSE view of the structure of Abell 370.*
61. **Weaver, J. R.**, Horne, K. (2022), MNRAS, 512, 899, *Dust and the intrinsic spectral index of quasar variations: hints of finite stress at the innermost stable circular orbit.*
62. Steinhardt, C. L., Sneppen, A., Mostafa, B., et al. (2022), ApJ, 931, 58, *Implications of a Temperature-dependent Initial Mass Function. II. An Updated View of the Star-forming Main Sequence.*
63. Sneppen, A., Steinhardt, C. L., Hensley, H., et al. (2022), ApJ, 931, 57, *Implications of a Temperature-dependent Initial Mass Function. I. Photometric Template Fitting.*
64. Ito, K., Tanaka, M., Miyaji, T., et al. (2022), ApJ, 929, 53, *COSMOS2020: Ubiquitous AGN Activity of Massive Quiescent Galaxies at $0 < z < 5$ Revealed by X-Ray and Radio Stacking.*
65. Valentino, F., Brammer, G., Fujimoto, S., et al. (2022), ApJL, 929, L9, *The Archival Discovery of a Strong Ly α and [C II] Emitter at $z = 7.677$.*
66. Faisst, A. L., Chary, R. R., Fajardo-Acosta, S., et al. (2022), ApJ, 929, 66, *Joint Survey Processing. I. Compact Oddballs in the COSMOS Field-Low-luminosity Quasars at $z > 6$?*
67. Euclid Collaboration, Moneti, A., McCracken, H. J., et al. (2022), A&A, 658, A126, *Euclid preparation. XVII. Cosmic Dawn Survey: Spitzer Space Telescope observations of the Euclid deep fields and calibration fields.*
68. **Weaver, J. R.**, Kauffmann, O. B., Ilbert, O., et al. (2022), ApJS, 258, 11, *COSMOS2020: A Panchromatic View of the Universe to $z \sim 10$ from Two Complementary Catalogs.*
69. Casey, C. M., Zavala, J. A., Manning, S. M., et al. (2021), ApJ, 923, 215, *Mapping Obscuration to Reionization with ALMA (MORA): 2 mm Efficiently Selects the Highest-redshift Obscured Galaxies.*

70. Sun, F., Egami, E., Pérez-González, P. G., et al. (2021), ApJ, 922, 114, *Extensive Lensing Survey of Optical and Near-infrared Dark Objects (El Sonido): HST H-faint Galaxies behind 101 Lensing Clusters*.
71. Kokorev, V. I., Magdis, G. E., Davidzon, I., et al. (2021), ApJ, 921, 40, *The Evolving Interstellar Medium of Star-forming Galaxies, as Traced by Stardust*.
72. Zheng, Y., Wild, V., Lahén, N., et al. (2020), MNRAS, 498, 1259, *Comparison of stellar populations in simulated and real post-starburst galaxies in MaNGA*.
73. Steinhardt, C. L., Jauzac, M., Acebron, A., et al. (2020), ApJS, 247, 64, *The BUFFALO HST Survey*.
74. Steinhardt, C. L., Weaver, J. R., Maxfield, J., et al. (2020), ApJ, 891, 136, *A Method to Distinguish Quiescent and Dusty Star-forming Galaxies with Machine Learning*.
75. **Weaver, J.**, Husemann, B., Kuntschner, H., et al. (2018), A&A, 614, A32, *History and destiny of an emerging early-type galaxy. New IFU insights on the major-merger remnant NGC 7252*.