

# David J. Setton

## Curriculum Vitae

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Research focus: observational galaxy formation and evolution through cosmic time

### Education

- June 2023 **Ph.D in Physics**, University of Pittsburgh.  
Advisor: Professor Rachel Bezanson  
Thesis: The When and How of Rapid Quenching at Intermediate Redshift
- May 2019 **M.S. in Physics**, University of Pittsburgh.
- May 2017 **B.S. in Physics and Astronomy**, University of Arizona.  
Advisor: Professor Gurtina Besla  
Thesis: Characterizing the Bow Shock of the Large Magellanic Cloud

### Research Positions

- Sep. 2023 - **Brinson Prize Fellow**.  
Present Department of Astrophysical Sciences, Princeton University
- Aug. 2017 - Aug. 2023 **Zaccheus Daniel Fellow; PITT PACC Graduate Fellow**.  
Department of Physics and Astronomy, University of Pittsburgh

### Accepted Telescope Programs/Observing

#### James Webb Space Telescope

2 as Principal Investigator, 9 as Co-Investigator

- Co-Principal Investigator **19.6 hours**, Cycle 4: 8607.  
"Studying cosmic noon at 200 parsec scales: resolved spectroscopy of a magnified dusty quiescent galaxy"
- Principal Investigator **JWST: 4.7 hours (Joint w/ ALMA)**, Cycle 3: 6719.  
"Mapping Cold Gas and Star Formation in Gas Rich Post-Starburst Galaxies Near Cosmic Noon"  
**Approved budget: \$128,878**
- Co-Investigator **259.8 hours**, Cycle 4: 7814.  
"MINERVA: Unlocking the Hidden Gems of the Distant Universe and Completing HST and JWST's Imaging Legacy with Medium Bands"
- Co-Investigator **17.0 hours**, Cycle 4: 8204.  
"Give me a break: the search for stars in a prototypical Little Red Dot"
- Co-Investigator **14.1 hours**, Cycle 4: 8047.  
"Extremely massive galaxies in the early universe? Confirming the nature of the most model-breaking object by hunting for stellar absorption features"
- Co-Investigator **14.1 hours**, Cycle 4: 8915.  
"Echoes of Silence: Absorption Line Spectroscopy of a Massive Quiescent Galaxy at  $z = 7.3$ "
- Co-Investigator **4.2 hours**, Cycle 4: 8915.  
"In Search of Siblings: Spectroscopic Follow-Up of a Candidate Massive Quiescent Galaxy at  $z \sim 7$ "
- Co-Investigator **20.5 hours**, Cycle 3: 6405.  
"Clumpy Relics: The First Spectroscopic Confirmation of Globular Clusters at  $z \sim 3$ "

- Co- Investigator **48 hours**, Cycle 2: 4111.  
 "Medium bands, Mega Science: spatially-resolved R 15 spectrophotometry of 50,000 sources at  $z=0.3-12$ "
- Co- Investigator **11.2 hours**, Cycle 2: 4318.  
 "Is there Evidence of alpha-Enhancement in Massive Quiescent Galaxies at  $z > 3$ ?"
- Co- Investigator **47.9 hours**, Cycle 2: 4233.  
 "A complete census of the rare, extreme and red: a NIRCам-selected extragalactic community survey with JWST/NIRSpec"

## Atacama Large Millimeter/submillimeter Array

5 as Principal Investigator, 11 as Co-Investigator

- Principal **15.5 hours (Joint w/ JWST)**, Cycle 11: 2024.1.01064.S.  
 Investigator "Mapping Cold Gas and Star Formation in Gas Rich Post-Starburst Galaxies Near Cosmic Noon"
- Principal **12.1 hours**, Cycle 10: 2023.1.01012.S.  
 Investigator "Does Molecular Gas Survive Quenching Near Cosmic Noon?"
- Principal **27.9 hours**, Cycle 9: 2022.1.00604.S.  
 Investigator "Timing the Disappearance of Molecular Gas in Post-Starburst Galaxies"
- Principal **37.6 hours**, Cycle 8: 2021.1.01535.S.  
 Investigator "Timing the Disappearance of Molecular Gas in Post-Starburst Galaxies"
- Principal **14.4 hours**, Cycle 8: 2021.1.00988.S.  
 Investigator "Tracing the molecular gas in tidal tails of recently quenched galaxies"
- Co- Investigator **31.9 hours**, Cycle 12: 2025.1.01579.S.  
 "Are the earliest dead galaxies dead?"
- Co- Investigator **12.7 hours**, Cycle 12: 2025.1.01006.S.  
 "What's Left Behind: A Census of the Cold ISM in the First Massive Quiescent Galaxies"
- Co- Investigator **8.3 hours**, Cycle 12: 2025.1.00092.S.  
 "Dust and cold gas emission in a massive quenched galaxy candidate at  $z=7.3$ "
- Co- Investigator **7.2 hours**, Cycle 11: 2024.1.01599.S.  
 "Revealing the connection between massive cores and quenching with ALMA"
- Co- Investigator **8.4 hours**, Cycle 11: 2024.1.01252.S.  
 "Diffuse or Dense: Probing the Physical State of Massive Gas Reservoirs in  $z \sim 0.7$  Quenched Galaxies"
- Co- Investigator **9.7 hours**, Cycle 11: 2024.1.01197.S.  
 "First Dynamical and FIR Characterizations of an X-ray luminous AGN host galaxy at  $z > 10$ "
- Co- Investigator **ALMA: 19.0 hours/JWST: 1.3 hours**, Cycle 11: 2024.1.00826.S.  
 "Of Dust and Dots: ALMA's View of the Brightest of JWST's Little Red Dots"
- Co- Investigator **44.8 hours**, Cycle 11: 2024.1.00551.S.  
 "Probing the Host Galaxies of 45 Broad-line Little Red Dots at  $z_{spec} = 4.13 - 8.50$  with ALMA"
- Co- Investigator **13.1 hours**, Cycle 11: 2024.1.00216.S.  
 "Timing the Onset of Unexpected Dust Destruction using High-Redshift Post-Starburst Galaxies"
- Co- Investigator **13.1 hours**, Cycle 10: 2023.1.00948.S.  
 "Timing the Onset of Unexpected Dust Destruction using High-Redshift Post-Starburst Galaxies"
- Co- Investigator **14.5 hours**, Cycle 8: 2021.1.00761.S.  
 "Quantifying the molecular gas reservoirs of post-starburst AGN hosts"

## Hubble Space Telescope

1 as Principal Investigator, 2 as Co-Investigator

- Principal **SNAP (409 Orbits)**, Cycle 30: 17110.  
 Investigator "Post-starbursts from DESI: Timing quenching and morphological transformation at  $1 < z < 1.3$ "  
**Approved budget: \$202,893**

- Co- Investigator **GO (25 Orbits)**, Cycle 33: 18038.  
 "Unravel the Puzzles of Little Red Dots: HST View on Local Analogs"
- Co- Investigator **GO (72 Orbits)**, Cycle 32: 17730.  
 "Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field"

### Other facilities

4 as Co-Investigator

- Co- Investigator **5 hours**, *NOEMA*, W24EE.  
 "Unveiling the formation of an extreme, quiescent galaxy at  $z=5$  with JWST and NOEMA"
- Co- Investigator **48 hours**, *CHANDRA*, Cycle 24: 24700092.  
 "A CHANDRA View of Massive Post-Starburst Galaxies"
- Co- Investigator **21 hours**, *VLA*, Semester 2024B: VLA/24B-451.  
 "Timing the Onset of Radio-Mode Feedback with High- $z$  Post-starbursts"
- Co- Investigator **45 hours**, *VLA*, Semester 2022A: VLA/22A-362.  
 "Measuring Jet Ages to Test Radio AGN Feedback with Massive  $z \sim 0.7$  Post-Starbursts"

### Observing Experience

6.5 Nights **Magellan/FIRE.**

1 Night **Keck/NIRES.**

## Scholarships, Honors, and Grants

- 2025-Present **JWST-GO #6719 Grant**, \$128,878.
- Summer 2023 **Zaccheus Daniel Fellow**,  $\sim$  \$13,000.
- Spring 2023 **PITT PACC Graduate Fellow**,  $\sim$  \$13,000.
- 2023-2025 **HST-GO #17110 Grant**, \$202,893.
- Fall 2022 **ALMA Student Observing Support**,  $\sim$  \$35,000.
- Fall 2021 **PITT PACC Graduate Fellow**,  $\sim$  \$12,000.
- Mar. 2021 **Thomas-Lain Fund Scholarship Essay Competition**, \$2000.
- Feb. 2020 **Martin and Beate Block Winter Award**, \$500.
- Acad. Year 16-17 **Cubic Corporation Scholarship**,  $\sim$  \$2000.
- Acad. Year 16-17 **Krane Scholarship**,  $\sim$  \$2000.
- Acad. Year 16-17 **Phi Beta Kappa Travel Grant**,  $\sim$  \$1000.
- Acad. Year 16-17 **Glenn C. Purviance Scholarship**,  $\sim$  \$3500.
- Acad. Year 15-16 **Galileo Circle Scholarship**,  $\sim$  \$5000.  
 & 16-17
- Acad. Year 14-15 **Angelos C. Langadas Scholarship**,  $\sim$  \$2000.
- Acad. Year 14-15 **Arizona Space Grant Internship**,  $\sim$  \$3500.

## Talks and Presentations

- August 2025 **Galaxy memoirs: inferring their past from their present**, *Speaker*, Buzios, Brazil.
- July 2025 **New Data that Challenge Underlying Assumptions in Galaxy Evolution**, *Speaker*, Bar Harbor, ME.
- May 2025 **PRIMA and the Future of Far-Infrared Astronomy**, *Invited Speaker*, Padadena, CA.
- May 2025 **RUBIES Team Meeting**, *Invited Speaker*, Bergen, NL.
- April 2025 **Big Galaxies, Big Problems Lorentz Center Meeting**, *Organizer*, Leiden, NL.
- March 2025 **UW ALMA Workshop**, *Invited Speaker*, Seattle, WA.
- March 2025 **Princeton Thunch**, *Invited Speaker*, Princeton, NJ.

March 2025 **University of Pennsylvania AstroLunch**, *Invited Speaker*, Philadelphia, PA.

February 2025 **Bahcall Lunch Talk**, *Invited Speaker*, Princeton, NJ.

November 2024 **York University Seminar**, *Invited Speaker*, Toronto, Ontario.

November 2024 **University of Toronto TASTY Seminar**, *Invited Speaker*, Toronto, Ontario.

October 2024 **Galaxies and Black Holes in the Early Universe**, *Speaker*, New Haven, Connecticut.

April 2024 **Extreme Galaxies Conference**, *Poster*, Reykjavik, Iceland.

April 2024 **JHU/STScI Galaxy+AGN Journal Club**, *Invited Speaker*, Baltimore, Maryland.

January 2024 **Yale Galaxy Lunch**, *Invited Speaker*, New Haven, Connecticut.

January 2024 **St. Francis Xavier University Colloquium**, *Invited Speaker*, Antigonish, Nova Scotia.

October 2023 **UW AstroLunch**, *Invited Speaker*, Seattle, Washington.

October 2023 **Bahcall Lunch Talk**, *Invited Speaker*, Princeton, NJ.

May 2023 **AstroPGH Data Science Bootcamp**, *Guest Lecturer*, University of Pittsburgh.

April 2023 **ASTR 0413 Graduate Research Series**, *Invited Guest Lecturer*, University of Pittsburgh.

January 2023 **241st Meeting of the American Astronomical Society**, *Thesis Talk*, Seattle, Washington.

December 2022 **DESI Collaboration Meeting**, *Invited Plenary Speaker*, Cancun, Mexico.

November 2022 **DESI Research Forum**, *Invited Speaker*, Online.

November 2022 **NOIRLab FLASH Talk**, *Invited Speaker*, Tucson, Arizona.

October 2022 **HSC+PFS+Rubin Meeting**, *Invited Speaker*, Princeton University.

October 2022 **Extragalactic Seminar**, *Invited Speaker*, Texas A&M.

October 2022 **Extragalactic Seminar**, *Invited Speaker*, University of Texas Austin.

September 2022 **Galaxy Group Seminar**, *Invited Speaker*, University of Michigan.

September 2022 **Epoch of Galaxy Quenching 2022**, *Speaker*, Cambridge, U.K..

July 2022 **A Holistic View of Stellar Feedback and Galaxy Evolution**, *Speaker*, Collegio Papio, Ascona, Switzerland.

May 2022 **AstroPGH Data Science Bootcamp**, *Guest Lecture*, University of Pittsburgh.

Nov 2021 **KooGiG-Junior Workshop**, *Speaker*, Kavli Institute for Astronomy and Astrophysics.

May 2021 **STSci Multi-Object Spectroscopy Workshop**, *Speaker*, Space Telescope Institute.

April 2021 **Galaxy Lunch**, *Invited Speaker*, UMass Amherst.

March 2021 **McWilliams Computing Seminar**, *Invited Speaker*, Carnegie Mellon University.

October 2020 **Intro to Astronomy Seminar Series**, *Invited Speaker*, Bridgewater State University.

May+June 2020 **AstroPGH Data Science Bootcamp**, *Guest Lectures*, University of Pittsburgh.

Feb. 2020 **Aspen Galaxy Quenching Workshop**, *Poster*, Aspen Center for Physics.  
**Awarded "Martin and Beate Block Winter Award for Promising Young Physicists"**

Feb. 2020 **3 Minute Thesis Competition**, *Talk*, University of Pittsburgh.  
**Department Competition Winner**

Jan. 2017 **229th Meeting of the American Astronomical Society**, *Poster*, Grapevine, TX.

May 2016 **Lucy Engal Undergraduate Physics Symposium**, *Talk*, University of Arizona.

Mar. 2016 **2nd Magellanic Clouds Workshop**, *Talk*, University of Arizona.

May 2015 **Lucy Engal Undergraduate Physics Symposium**, *Talk*, University of Arizona.  
**Awarded "Best Undergraduate Talk"**

Apr. 2015 **Arizona Space Grant Symposium**, *Talk*, Arizona State University.

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## Teaching Experience

- Summer 2024 **Princeton Prison Teaching Institute Summer Internship**, Princeton, NJ.  
Instructor: Coding Foundations of Research Statistics Module
- Acad. Year 19-20 **AP Physics C: Mechanics + Electricity & Magnetism**, Tutor.
- Acad. Year 18-19 **Deitrich School of Arts and Sciences Teaching Assistant Mentor**, Pitt.
- Spring 2018 **ASTRON 0089: Stars, Galaxies, and Cosmos**, Teaching Assistant, Pitt.  
Received Myron P. Garfunkel Excellence in Graduate Student Teaching Award
- Fall 2017 **ASTRON 0088: Stonehenge to Hubble**, Teaching Assistant, Pitt.
- Fall 2017 **ASTRON 0087: Basics of Spaceflight**, Teaching Assistant, Pitt.
- Spring 2017 **PHYS 141: Introduction to Mechanics**, Preceptor, U.Arizona.
- Spring 2017 **PHYS 241: Introduction to Electricity & Magnetism**, Preceptor, U.Arizona.

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## Students Supervised

- Mar. 2020-Aug. 2022 **Maggie Verrico**, University of Pittsburgh Undergraduate.  
Studying the Sizes and Structures of  $z \sim 0.7$  Post-Starburst Galaxies  
Now a graduate student at the University of Illinois Urbana-Champaign  
**Publication in the Astrophysical Journal**
- May 2022-Present **Anika Kumar**, University of Pittsburgh Undergraduate.  
Studying the Source Properties of the Gas Rich Companions of Post-Starburst Galaxies  
Now a graduate student at the Rochester Institute of Technology
- June 2022-Present **Yunchong Zhang**, University of Pittsburgh Graduate Student.  
Morphology of  $z \sim 1$  post-starburst galaxies/number density of high- $z$  quiescent galaxies  
**Publication in the Astrophysical Journal**  
**Accepted ALMA Cycle 12 Program (A Priority)**
- July 2022-Present **Erin Stumbaugh**, University of Pittsburgh Undergraduate.  
Studying the Environments of Post-Starburst Galaxies Using HSC Imaging
- Fall 2023-Summer 2024 **Belinda Wu**, Princeton University Undergraduate Junior Project.  
JWST UNCOVER: Star Formation Histories of Low-Mass Galaxies
- Dec. 2023-Present **Jared Siegel**, Princeton University Graduate Student.  
The Spatially Resolved Stellar Populations of  $z > 2$  Quiescent Galaxies with JWST  
**Publication in the Astrophysical Journal**  
**Joint PI of JWST Cycle 4 Program 8607**
- Dec. 2023-Present **Yilun Ma**, Princeton University Graduate Student.  
Modeling the spectra and number density of Little Red Dots  
**Multiple publications in the Astrophysical Journal**
- Summer 2024 **Hy Troung**, Princeton University Undergraduate Summer Research Project.  
"Seeing New Colors: What Gradients Reveal About Massive Galaxies at  $z > 2$ "  
Now a graduate student at the San Diego State University
- Sep. 2024-Present **Abby Mintz**, Princeton University Graduate Student.  
Star Formation Burstiness at Cosmic Noon with JWST/PRISM Spectroscopy  
**Publication submitted to the Astrophysical Journal**
- May. 2025-Present **Helena Treiber**, Princeton University Graduate Student.  
Selection and Characterization of Non-LRD AGN With JWST
- June. 2025-Present **Kaitlyn Shavelle**, Princeton University Graduate Student.  
Star Forming Properties of IR-Luminous Type II Quasars

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## Service

- Reviewer:** **HST Distributed Review**, Proposal Reviewer.  
**ALMA Distributed TAC**, Proposal Reviewer.

**The Astrophysical Journal**, *Referee*.

**Astronomy & Astrophysics**, *Referee*.

**Nature Astronomy**, *Referee*.

**The Open Journal of Astrophysics**, *Referee*.

May 2025-Present **Princeton Astronomy Colloquium**, *Co-Chair of Selection Committee*.

May 2024-Present **Princeton Galread Seminar**, *Head Organizer*.

Aug. 2019-July 2021 **Association of Physics and Astronomy Graduate Students**, *Co-President*.

Summers 19, 20, 21 **Pitt Galaxy Journal Club**, *Founding Organizer*.  
Graduate student led journal club focused on seminal galaxy papers

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## Outreach and Science Communication

December 2024 **Guest on WPRB The Pidgin**, WPRB News and Culture.  
"little red dots"

November 2024 **Communities Without Walls Speaker**, Princeton Center for Modern Aging.  
"Peering into the distant Universe with the new James Webb Space Telescope"

March 2023 **Continuing Education Speaker**, Sherwood Oaks Retirement Community.  
"Peering into the distant Universe with the new James Webb Space Telescope"

Apr. 2022 **ACCelerate Festival Presenter**, *Smithsonian National Museum of American History*.  
Presenter: "Making the Largest Maps of the Universe"

Apr. 2019 & 2020 **Pittsburgh Public School Research Symposium Judge**, *Taylor Allderdice High School*.  
2020: Chair of Judging Committee

Nov. 2018 **Astronomy on Tap Pittsburgh**, *Franktuary*, Speaker.  
"The Puzzling Counter Intuitiveness of Special Relativity"

Aug. 2015 - May 2017 **College of Science Ambassador**, *University of Arizona*.  
Recruitment and outreach events to recruit STEM undergraduates from Arizona high schools

Sep. 2014 - May 2017 **Steward Observatory Telescope Operator**, *University of Arizona*.  
Operated the 21" telescope on campus for undergraduate classes and public visit nights

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## References

Postdoc Mentor **Jenny E. Greene**, *Professor, Princeton University*.  
jgreene@astro.princeton.edu

Graduate Thesis Advisor **Rachel Bezanson**, *Associate Professor, University of Pittsburgh*.  
rachel.bezanson@pitt.edu

**Bruce Draine**, *Emeritus Professor, Princeton University*.  
draine@astro.princeton.edu

Undergraduate Thesis Advisor **Gurtina Besla**, *Associate Professor, University of Arizona*.  
gbesla@email.arizona.edu

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## Publications

Publications in each are listed in reverse chronological order in each section. Papers led by a student under close supervision by D.S. indicated with an asterisk (\*)

### First and Second Author:

Seven first author, six second author (four with students supervised by D.S. as primary author)

13. \*Taking a Break at Cosmic Noon: Continuum-selected Low-mass Galaxies Require Long Burst Cycles  
Mintz, Abby; **Setton, David J.**; Greene, Jenny E.; Leja, Joel; Wang, Bingjie; et al. 2025

12. A confirmed deficit of hot and cold dust emission in the most luminous Little Red Dots  
**Setton, David J.**; Greene, Jenny E.; Spilker, Justin S.; Williams, Christina C.; Labbe, Ivo; et al. 2025  
*Submitted to the Astrophysical Journal (arXiv: 2503.02059)*
11. Little Red Dots at an Inflection Point: Ubiquitous "V-Shaped" Turnover Consistently Occurs at the Balmer Limit  
**Setton, David J.**; Greene, Jenny E.; de Graaff, Anna; Ma, Yilun; Leja, Joel; et al 2024  
*Submitted to the Astrophysical Journal (arXiv: 2411.03424)*
10. \*UNCOVER: Significant Reddening in Cosmic Noon Quiescent Galaxies  
Siegel, Jared; **Setton, David J.**; Greene, Jenny; Suess, Katherine; Whitaker, Katherine; Bezanson, Rachel; et al. 2024  
*Submitted to the Astrophysical Journal (arXiv: 2409.11457)*
9. \*DESI Massive Post-Starburst Galaxies at  $z \sim 1.2$  have compact structures and dense cores  
Zhang, Yunchong; **Setton, David J.**; Bezanson, Rachel; Khullar, Gourav; Newman, Jeffrey A. et al. 2024  
*The Astrophysical Journal*, 976, 36Z
8. Efficient formation of a massive quiescent galaxy at redshift 4.9  
de Graaff, Anna; **Setton, David J.**; Brammer, Gabriel; Cutler, Sam; Suess, Katherine A.; Labbe, Ivo; Leja, Joel et al. 2024  
*Nature Astronomy*, 284D
7. UNCOVER NIRSpec/PRISM Spectroscopy Unveils Evidence of Early Core Formation in a Massive, Centrally Dusty Quiescent Galaxy at  $z_{\text{spec}} = 3.97$   
**Setton, David J.**; Khullar, Gourav; Miller, Tim; Bezanson, Rachel; Suess, Katherine A.; Greene, Jenny E. et al. 2024  
*The Astrophysical Journal*, 974, 145S
6. The Large Magellanic Cloud's  $\sim 30$  Kiloparsec Bow Shock and its Impact on the Circumgalactic Medium  
**Setton, David J.**; Besla, Gurtina; Patel, Ekta; Hummels, Cameron; Zheng, Yong; Schneider, Evan et al. 2023  
*The Astrophysical Journal*, 959L, 11S
5. DESI Survey Validation Spectra Reveal an Increasing Fraction of Recently Quenched Galaxies at  $z \sim 1$   
**Setton, David J.**; Dey, Biprateep; Khullar, Gourav; Bezanson, Rachel; Newman, Jeffrey A.; et al. 2023  
*The Astrophysical Journal*, 947, L31
4. \*Merger Signatures are Common, but not Universal, in Massive, Recently-Quenched Galaxies at  $z \sim 0.7$   
Verrico, Margaret; **Setton, David J.**; Bezanson, Rachel; Greene, Jenny E.; Suess, Katherine A.; Goulding, Andy; Spilker, Justin S.; Kriek, Mariska; Feldmann, Robert; Narayanan, Desika 2023  
*The Astrophysical Journal*, 949, 5
3. The Compact Structures of Massive  $z \sim 0.7$  Post-Starburst Galaxies in the SQuGGLE Survey  
**Setton, David J.**; Verrico, Margaret; Bezanson, Rachel; Greene, Jenny E.; Suess, Katherine A.; Feldmann, Robert; Goulding, Andy D.; Hall-Hooper, Khalil; Kado-Fong, Erin; Kriek, Mariska; Narayanan; Desika; Spilker, Justin S. 2022  
*The Astrophysical Journal*, 931, 51
2. SQuGGLE Survey: Massive  $z \sim 0.6$  Post-Starburst Galaxies Exhibit Flat Age Gradients  
**Setton, David J.**; Bezanson, Rachel; Suess, Katherine A.; Hunt, Qiana; Greene, Jenny E.; Kriek, Mariska; Spilker, Justin S.; Feldmann, Robert; Narayanan, Desika 2020  
*The Astrophysical Journal*, 905, 79
1. The Role of Active Galactic Nuclei in the Quenching of Massive Galaxies in the SQuGGLE Survey  
Greene, Jenny E.; **Setton, David J.**; Bezanson, Rachel; Suess, Katherine A.; Kriek, Mariska; Spilker, Justin

S.; Goulding, Andy D.; Feldmann, Robert 2020  
*The Astrophysical Journal*, 899, L9

### Co-authored publications with major contributions:

(Three with students supervised by D.S. as primary author)

16. \*RUBIES spectroscopically confirms the high number density of quiescent galaxies from  $2 < z < 5$   
Zhang, Yunchong; de Graaff, Anna; **Setton, David J.**; Price, Sedona H.; Bezanson, Rachel; et al. 2025  
*Submitted to the Astrophysical Journal*
15. \*Counting Little Red Dots at  $z < 4$  with Ground-based Surveys and Spectroscopic Follow-up  
Ma, Yilun; Greene, Jenny E.; **Setton, David J.**; Goulding, Andy D.; Annunziatella, Marianna et al. 2025  
*Submitted to the Astrophysical Journal*
14. RUBIES: JWST/NIRSpec Resolves Evolutionary Phases of Dusty Star-forming Galaxies at  $z \sim 2$   
Cooper, Olivia R.; Brammer, Gabriel; Heintz, Kasper E.; Toft, Sune; Casey, Caitlin M.; **Setton, David J.** et al. 2025  
*The Astrophysical Journal*, 982, 125C
13. SQUIGGLE : Observational Evidence of Low Ongoing Star Formation Rates in Gas-Rich Post-Starburst Galaxies  
Zhu, Pengpei.; Suess, Katherine A.; Kriek, Mariska; **Setton, David J.**; Bezanson, Rachel; et al. 2025  
*Accepted in the Astrophysical Journal*
12. Discovery of Ancient Globular Cluster Candidates in The Relic, a Quiescent Galaxy at  $z=2.5$   
Whitaker, Katherine E.; Cutler, Sam E.; Chandar, Rupali; Pan, Richard; **Setton, David J.**; et al. 2024  
*Submitted to the Astrophysical Journal*
11. 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  
Miller, Tim B.; Suess, Katherine A.; **Setton, David J.**; Price, Sedona H.; Labbe, Ivo; Bezanson, Rachel; et al. 2024  
*Submitted to the Astrophysical Journal*
10. \*UNCOVER: 404 Error – Models Not Found for the Triply Imaged Little Red Dot A2744-QSO1  
Ma, Yilun; Greene, Jenny E.; **Setton, David J.**; Marta Volonteri, Joel Leja, Bingjie Wang; et al. 2024  
*Submitted to the Astrophysical Journal Letters*
9. RUBIES Reveals a Massive Quiescent Galaxy at  $z=7.3$   
Weibel, Andrea; de Graaff, Anna; **Setton, David J.**; Miller, Tim B.; Oesch, Pascal A.; et al. 2024  
*Submitted to the Astrophysical Journal Letters*
8. Most of the photons that reionized the Universe came from dwarf galaxies  
Atek, Hakim; Labbé, Ivo; Furtak, Lukas J.; Chemerynska, Iryna; Fujimoto, Seiji; **Setton, David J.**; Miller, Tim B.; Oesch, Pascal; Bezanson, Rachel; et al. 2024  
*Nature*, 626, 975–978
7. UNCOVER: The growth of the first massive black holes from JWST/NIRSpec – spectroscopic confirmation of an X-ray luminous AGN at  $z=10.1$   
Goulding, Andy D.; Greene, Jenny E.; **Setton, David J.**; Labbe, Ivo; Bezanson, Rachel; Miller, Tim B.; Atek, Hakim; Bogdan, Akos; et al. 2023  
*The Astrophysical Journal*, 955L, 24G
6. UNCOVER: Illuminating the Early Universe – JWST/NIRSpec Confirmation of  $z>12$  Galaxies  
Wang, Bingjie; Fujimoto, Seiji; Labbe, Ivo; Furtak, Lukas J.; Miller, Tim B.; **Setton, David J.**; et al. 2023  
*The Astrophysical Journal*, 957L, 34W
5. Schrodinger's Galaxy Candidate: Puzzlingly Luminous at  $z \sim 17$ , or Dusty/Quenched at  $z \sim 5$ ?  
Naidu, Rohan P.; Oesch, Pascal A.; **Setton, David J.**; Matthee, Jorjy; Conroy, Charlie; Johnson, Benjamin



- D.; Weaver, John R.; Bouwens, Rychard J.; Brammer, Gabriel B.; Dayal, Pratika; et al. 2022  
*Submitted to the Astrophysical Journal (arXiv:2208.02794)*
4. Rest-frame near-infrared sizes of galaxies at cosmic noon: objects in JWST's mirror are smaller than they appeared  
 Suess, Katherine A.; Bezanson, Rachel; Nelson, Erica J.; **Setton, David J.**; Price, Sedona H.; van Dokkum, Pieter ; Brammer, Gabriel; Labbe, Ivo; Leja, Joel; Miller, Tim B.; Robertson, Brant; et al. 2022  
*The Astrophysical Journal*, 937, L33
  3. Star Formation Suppression by Tidal Removal of Cold Molecular Gas from an Intermediate-Redshift Massive Post-Starburst Galaxy  
 Spilker, Justin S.; Suess, Katherine A.; **Setton, David J.**; Bezanson, Rachel; Feldmann, Robert; Greene, Jenny E.; Kriek, Mariska; Lower, Sidney; Narayanan, Desika; Verrico, Margaret 2022  
*The Astrophysical Journal*, 936, L11
  2. SQUIGGLE: Studying Quenching in Intermediate- $z$  Galaxies: Gas, Angular Momentum, and Evolution  
 Suess, Katherine A.; Kriek, Mariska; Bezanson, Rachel; Greene, Jenny E.; **Setton, David J.**; Spilker, Justin S.; Feldmann, Robert F.; Goulding, Andy D.; Johnson, Benjamin D.; Leja, Joel; Narayanan, Desika; Hall-Hooper, Khalil; Hunt, Qiana; Lower, Sidney; Verrico, Margaret 2022  
*The Astrophysical Journal*, 926, 89
  1. Now you see it, now you don't:  $\text{H}_2$  in massive post-starburst galaxies at  $z \sim 0.6$   
 Bezanson, Rachel; Spilker, Justin S.; Suess, Katherine A.; **Setton, David J.**; Feldmann, Robert; Greene, Jenny E.; Kriek, Mariska; Narayanan, Desika; Verrico, Margaret 2022  
*The Astrophysical Journal*, 925, 153

#### Other co-authored publications:

23. MINERVA: A NIRC2 Medium Band and MIRI Imaging Survey to Unlock the Hidden Gems of the Distant Universe  
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22. Unusually High Gas-to-Dust Ratios Observed in High-Redshift Quiescent Galaxies  
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21. Cold gas in a post-starburst pair at  $z \sim 1.4$ : major mergers as a pathway to quenching in the HeavyMetal survey  
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20. The Structure and Formation Histories of Low-Mass Quiescent Galaxies in the Abell 2744 Cluster Environment  
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19. UNCOVER/MegaScience: No Evidence of Environmental Quenching in a  $z \sim 2.6$  Proto-cluster  
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18. A remarkable Ruby: Absorption in dense gas, rather than evolved stars, drives the extreme Balmer break of a Little Red Dot at  $z=3.5$

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  15. UNCOVERing the High-Redshift AGN Population Among Extreme UV Line Emitters  
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  14. The All-Sky Impact of the LMC on the Milky Way Circumgalactic Medium  
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  13. The UNCOVER Survey: First Release of Ultradeep JWST/NIRSpec PRISM spectra for 700 galaxies from  $z$  0.3-13 in Abell 2744  
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  8. UNCOVER: A NIRSpec Identification of a Broad Line AGN at  $z = 8.50$   
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Updated: August 25, 2025