David J. Setton

Curriculum Vitae

4 Ivy Lane, Office 115
Princeton, NJ 08540
602-459-4897
davidsetton@princeton.edu
davidjsetton.github.io

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 - Present **Brinson Prize Fellow**.
Department of Astrophysical Sciences, Princeton University

Summer 2023 **Zaccheus Daniel Fellow**.
Department of Astrophysical Sciences, Princeton University

Fall 2021; Spring 2023 **PITT PACC Graduate Fellow**.
Department of Physics and Astronomy, University of Pittsburgh

May 2018-Aug. 2023 **Graduate Student Researcher**.
University of Pittsburgh Department of Physics and Astronomy

July - Nov. 2016 **Undergraduate Research Assistant**.
Mt. Stromlo Observatory, Australian National University

May. 2015 - July 2017 **Undergraduate Research Assistant**.
Steward Observatory, University of Arizona

Sep. 2014 - May 2015 **NASA Space Grant Intern**.
Steward Observatory, University of Arizona

Accepted Telescope Programs/Observing

Hubble Space Telescope

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

Co- Investigator **GO (72 Orbits)**, Cycle 32: 17730.
"Fulfilling the UV Legacy of the Hubble and Webb Deep Public Frontier Field"

Atacama Large Millimeter/submillimeter Array

Principle Investigator **ALMA: 15.5 hours/JWST: 4.7 hours**, Cycle 11: 2024.1.01064.S/Cycle 3: 6719.
"Mapping Cold Gas and Star Formation in Gas Rich Post-Starburst Galaxies Near Cosmic Noon"
Approved budget: $128,878

Principle Investigator **12.1 hours**, Cycle 10: 2023.1.01012.S.
"Does Molecular Gas Survive Quenching Near Cosmic Noon?"

Principle Investigator **27.9 hours**, Cycle 9: 2022.1.00604.S.
"Timing the Disappearance of Molecular Gas in Post-Starburst Galaxies"

Principle Investigator **37.6 hours**, Cycle 8: 2021.1.01535.S.
"Timing the Disappearance of Molecular Gas in Post-Starburst Galaxies"

Principle Investigator **14.4 hours**, Cycle 8: 2021.1.00988.S.
"Tracing the molecular gas in tidal tails of recently quenched galaxies"

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 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"

James Webb Space Telescope

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 NIRCam-selected extragalactic community survey with JWST/NIRSpec"

Other facilities

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

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 & 16-17	**Galileo Circle Scholarship**, $\sim \$5000$.
Acad. Year 14-15	**Angelos C. Langadas Scholarship**, $\sim \$2000$.
Acad. Year 14-15	**Arizona Space Grant Internship**, $\sim \$3500$.

Talks and Presentations

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 Lectures*, 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.

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.

Students Supervised

Mar. 2020-Aug. 2022 **Maggie Verrico**, *University of Pittsburgh Undergraduate.*
Studying the Sizes and Structures of z∼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 Technlology

June 2022-Present **Yunchong Zhang**, *University of Pittsburgh Graduate Student.*
Post-starbursts from DESI: Timing quenching and morphological transformation at $1 < z < 1.3$
Publication accepted in the Astrophysical Journal

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 submitted to the Astrophysical Journal

Dec. 2023-Present **Yilun Ma**, *Princeton University Graduate Student.*
Modeling the Rest-Optical Breaks in the Spectra of Little Red Dots
Publication submitted to the Astrophysical Journal

Summer 2024 **Hy Troung**, *Princeton University Undegraduate Summer Research Project.*
"Seeing New Colors: What Gradients Reveal About Massive Galaxies at $z > 2$"

Service

Reviewer: **HST Distributed Review**, *Proposal Reviewer.*
ALMA Distributed TAC, *Proposal Reviewer.*
The Astrophysical Journal, *Referee.*
Astronomy & Astrophysics, *Referee.*

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

Outreach and Science Communication

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

References

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

Graduate Thesis Committee Member **Jenny E. Greene**, *Professor, Princeton University.*
jgreene@astro.princeton.edu

Graduate Thesis Committee Member **Jeffrey A. Newman**, *Professor, University of Pittsburgh.*
janewman@pitt.edu

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

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:

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**; 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
Submitted to the Astrophysical Journal (arXiv: 2407.21257)

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
Accepted in Nature Astronomy (arXiv: 2404.05683)

7. UNCOVER NIRSpec/PRISM Spectroscopy Unveils Evidence of Early Core Formation in a Massive, Centrally Dusty Quiescent Galaxy at $z_{spec} = 3.97$
Setton, David J.; Khullar, Gourav; Miller, Tim; Bezanson, Rachel; Suess, Katherine A.; Greene, Jenny E. et al. 2024
Accepted in the Astrophysical Journal (arXiv: 2402.05664)

6. The Large Magellanic Cloud's ∼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 SQuIGG$\vec{L}$E 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. SQuIGG$\vec{L}$E Survey: Massive z∼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 SQuIGG$\vec{L}$E 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:

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, Jorryt; 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. SQuIGG$\vec{L}$E: 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: 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:

16. 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
Labbe, Ivo; Greene, Jenny E.; Matthee, Jorryt; Treiber, Helena; Kokorev, Vasily; Miller, Tim B.; Kramarenko, Ivan; **Setton, David J.;** et al. 2024
Submitted to ApJ

15. UNCOVERing the High-Redshift AGN Population Among Extreme UV Line Emitters
Treiber, Helena ; Greene, Jenny; Weaver, John R.; Miller, Tim B.; Furtak, Lukas J.; **Setton, David J.;** et al. 2024
Submitted to ApJ

14. The All-Sky Impact of the LMC on the Milky Way Circumgalactic Medium
Carr, Christopher; Bryan, Greg L.; Garavito-Camargo, Nicolás; Besla, Gurtina; **Setton, David J.**; Johnston, Kathryn V. 2024
Submitted to ApJ

13. The UNCOVER Survey: First Release of Ultradeep JWST/NIRSpec PRISM spectra for 700 galaxies from z 0.3-13 in Abell 2744
Price, Sedona H.; Bezanson, Rachel; Labbe, Ivo; Furtak, Lukas J.; de Graaff, Anna; et al. 2024 (including **Setton, David J.**)
Submitted to ApJ

12. RUBIES: Evolved Stellar Populations with Extended Formation Histories at $z \sim 7-8$ in Candidate Massive Galaxies Identified with JWST/NIRSpec
Wang, Bingjie; Leja, Joel; de Graaff, Anna; Brammer, Gabriel B.; Weibel, Andrea; Goulding, van Dokkum, Pieter; et al. 2024 (including **Setton, David J.**)
Submitted to ApJ

11. Medium Bands, Mega Science: a JWST/NIRCam Medium-Band Imaging Survey of Abell 2744
Suess, Katherine A.; Weaver, John R.; Price, Sedona H.; Pan, Richard; Wang, Bingjie; Bezanson, Rachel; et al. 2024 (including **Setton, David J.**)
Submitted to ApJ

10. RUBIES: JWST/NIRSpec Confirmation of an Infrared-luminous, Broad-line Little Red Dot with an Ionized Outflow
Wang, Bingjie; de Graaff, Anna; Davies, Rebecca L.; Greene, Jenny E.; Leja, Joel; Goulding, Andy D.; Williams, Christina C. et al. 2024 (including **Setton, David J.**)
Subbmited to ApJ

9. Two Distinct Classes of Quiescent Galaxies at Cosmic Noon Revealed by JWST PRIMER and UNCOVER
Cutler, Sam E.; Whitaker, Katherine E.; Weaver, John R.; Wang, Bingjie; Pan, Richard et al. 2023 (including **Setton, David J.**)
The Astrophysical Journal, 967, L23

8. UNCOVER: A NIRSpec Identification of a Broad Line AGN at z = 8.50
Kokorev, Vasily; Fujimoto, Seiji; Labbe, Ivo; Greene, Jenny E.; Bezanson, Rachel; Dayal, Pratika; Nelson, Erica J.; et al. 2023 (including **Setton, David J.**)
The Astrophysical Journal, 957L, 7K

7. UNCOVER: A NIRSpec Census of Lensed Galaxies at z=8.50-13.08 Probing a High AGN Fraction and Ionized Bubbles in the Shadow
Fujimoto, Seiji; Wang, Bingjie; Weaver, John; Kokorev, Vasily; Atek, Hakim; Bezanson, Rachel; Labbe, Ivo; Brammer, Gabriel; Greene, Jenny E.; et al. 2023 (including **Setton, David J.**)
Submitted to ApJ Letters (arXiv:2308.11609)

6. A supermassive black hole in the early universe growing in the shadows
Furtak, Lukas J.; Labbé, Ivo; Zitrin, Adi; Greene, Jenny E.; Dayal, Pratika; Chemerynska, Iryna; Kokorev,

Vasily; Miller, Tim B.; et al. 2023 (including **Setton, David J.**)
Pre-print: arXiv:2308.05735

5. The JWST UNCOVER Treasury survey: Ultradeep NIRSpec and NIRCam ObserVations before the Epoch of Reionization
Bezanson, Rachel; Labbe, Ivo; Whitaker, Katherine E.; Leja, Joel; Price, Sedona H.; Franx, Marijn; Brammer, Gabe; Marchesini, Danilo; et al. 2022 (including **Setton, David J.**)
Submitted to the Astrophysical Journal (arXiv:2212.04026)

4. The FENIKS Survey: Spectroscopic Confirmation of Massive Quiescent Galaxies at $z \sim$3-5
Antwi-Danso, Jacqueline; Papovich, Casey; Esdaile, James; Nanayakkara, Themiya; Glazebrook, Karl; Hutchison, Taylor A.; Whitaker, Katherine E.; 2023 (including **Setton, David J.**)
Submitted to the Astrophysical Journal (arXiv:2307.09590)

3. JWST reveals a population of ultra-red, flattened disk galaxies at 2<z<6 previously missed by HST
Nelson, Erica J.; Suess, Katherine A.; Bezanson, Rachel; Price, Sedona H.; van Dokkum, Pieter; Leja, Joel; Whitaker, Bingjie Wang Katherine E.; Labbé, Ivo; et al. 2022 (including **Setton, David J.**)
The Astrophysical Journal, 948, L18

2. Two Remarkably Luminous Galaxy Candidates at $z \approx 11 - 13$ Revealed by JWST
Naidu, Rohan P.; Oesch, Pascal A.; van Dokkum, Pieter; Nelson, Erica J.; Suess, Katherine A.; Whitaker, Katherine E.; Allen, Natalie; Bezanson, Rachel; et al. 2022 (including **Setton, David J.**)
The Astrophysical Journal, 940, L14

1. Recovering the star formation histories of recently-quenched galaxies: the impact of model and prior choices
Suess, Katherine A.; Leja, Joel; Johnson, Benjamin D.; Bezanson, Rachel; Greene, Jenny E.; Kriek, Mariska; Lower, Sidney; Narayanan, Desika; **Setton, David J.**; Spilker, Justin S. 2022
The Astrophysical Journal, 935, 146

Updated: January 24, 2025