

Katherine A. (Wren) Suess

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Research Interests

Observational galaxy formation and evolution; galaxy quenching; structural evolution of galaxies; spatially-resolved stellar population modeling; galaxy star formation histories

Research Positions

Assistant Professor, University of Colorado Boulder	2024 - present
Hubble Fellow, Stanford University	2023 - 2024
Stanford - Santa Cruz Cosmology Fellow, UC Santa Cruz & Stanford University	2021 - 2023
UC Santa Cruz Chancellor's Fellow, UC Santa Cruz	2021 - 2023
NSF Graduate Research Fellow; Berkeley Chancellor's Fellow, UC Berkeley	2015 - 2021

Education

Ph.D. Astrophysics, University of California, Berkeley	Aug 2021
Advisor: Mariska Kriek	
Thesis: The Growth & Transformation of Galaxies Across Cosmic Time	
M.A. Astrophysics, University of California, Berkeley	May 2017
B.A. Physics, <i>summa cum laude</i> , University of Colorado, Boulder	May 2015
Advisor: Jeremy Darling	
Honors thesis: Identifying OH Imposters in the ALFALFA Neutral Hydrogen Survey	

Selected Awards & Honors

Hubble Fellowship	2023
Mary Elizabeth Uhl Prize <i>for outstanding scholarly achievement by a graduate student finishing their dissertation in Astronomy or Physics</i>	2021
UC Berkeley Grad Slam Semifinalist (<i>final competition canceled due to COVID-19</i>)	2019
Robert J. Trumpler Graduate Excellence Award	2019
Outstanding Graduate Student Instructor	2017
NSF Graduate Research Fellowship	2016
University of California, Berkeley Chancellor's Fellowship	2015
Stephen Halley White Undergraduate Research Award	2015

Grants

Funded Research Grants: ~ \$3 million total as (admin/co-) PI, ~ \$1.6m at CU Boulder	
JWST GO Cycle 4 (Co-PI with A. Muzzin & D. Marchesini: \$977k total, \$399k at CU) <i>MINERVA: Unlocking the Hidden Gems of the Distant Universe</i>	2025-2028
JWST GO Cycle 4 (US Admin PI , science PI Ikki Mitsuhashi: \$295k total, \$219k at CU) <i>On the search for a primeval black hole in a spectroscopically-confirmed galaxy at $z=12.3$</i>	2025-2028
JWST GO Cycle 4 (Co-PI with S. Alberts: \$235k total, \$86k at CU) <i>Dust after Quenching: a mid-IR view into the hidden ISM of distant massive galaxies</i>	2025-2028
JWST GO Cycle 3 (Co-PI with R. Wechsler: \$243k total, \$112k at CU) <i>Characterizing the $z > 1$ satellite population with public deep-field JWST surveys</i>	2024-2027
JWST CO Cycle 3 (funded Co-I; PI M. Kriek): \$54k at CU <i>Extremely deep spectroscopy of quiescent galaxies at $z \sim 0.7$: a direct measurement of the stellar IMF</i>	2024-2027
NSF AAG (Co-PI with J. Spilker: \$525k total, \$262k at CU) <i>Collaborative Research: A Matter of Timing</i> <i>Star Formation Suppression Over the Last Half of Cosmic History</i>	2024-2027
JWST GO Cycle 2 (PI : \$715k total, \$497k at CU) <i>Medium Bands, Mega Science: spatially-resolved $R \sim 15$ spectrophotometry of Abell 2744</i>	2023-2026
NRAO ALMA Student Observing Support (PI : \$10k)	2020-2021

<i>Mapping the molecular gas reservoirs of recently-quenched galaxies</i>	2017-2019
HST Cycle 25 (PI : \$22k)	
<i>Understanding the origin of large gas reservoirs in recently-quenched galaxies</i>	2017-2018
NRAO VLA Student Observing Support (PI : \$32k)	
<i>Understanding the origin of large gas reservoirs in recently-quenched galaxies</i>	

Fellowships & travel grants

NASA Hubble Fellowship	2023-2026
ALMA Ambassador Research Award	2022
Simons Foundation Grant (to attend Aspen Center for Physics workshop)	Feb 2020, Aug 2023
UC Berkeley Graduate Division Travel Grant	Summer 2019, Fall 2019
IAU Travel Grant	2019
AAS International Travel Grant	2019-1, 2019-2, 2020-1
NSF Graduate Research Fellowship (3 years stipend & tuition)	2016
UC Berkeley Chancellor's Fellowship (2 years stipend & tuition)	2015

PI & Co-PI Telescope Programs

Atacama Large Millimeter/submillimeter Array

5. **K. Suess**, R. Bezanson, R. Feldmann, J. E. Greene, M. Kriek, D. Narayanan, D. Setton, J. Spilker, P.-F. Wu, Cycle 8: 2021.1.00761.S, Quantifying the molecular gas reservoirs of post-starburst AGN hosts (14.5 hours)
4. **K. Suess**, R. Bezanson, R. Feldmann, J. E. Greene, K. Hall-Hooper, Q. Hunt, M. Kriek, D. Narayanan, D. Setton, J. Spilker, Cycle 8: 2021.1.00749.S, Mapping the molecular gas reservoirs of recently-quenched galaxies (2.6 hours)
3. **K. Suess**, R. Bezanson, R. Feldmann, J. E. Greene, K. Hall-Hooper, Q. Hunt, M. Kriek, D. Narayanan, D. Setton, J. Spilker, Cycle 7: 2019.1.00221.S, Mapping the molecular gas reservoirs of recently-quenched galaxies (11.4 hours)
2. **K. Suess**, R. Bezanson, R. Feldmann, J. E. Greene, K. Hall-Hooper, Q. Hunt, M. Kriek, D. Narayanan, D. Setton, J. Spilker, Cycle 6: 2018.1.01240.S, Mapping the molecular gas reservoir of a recently-quenched galaxy (7.0 hours)
1. **K. Suess**, R. Bezanson, R. Feldmann, J. E. Greene, K. Hall-Hooper, Q. Hunt, M. Kriek, D. Narayanan, D. Setton, J. Spilker, Cycle 6: 2018.1.01264.S, How did molecular gas end up tens of kiloparsecs away from a massive, recently-quenched $z \sim 0.6$ galaxy? (6.5 hours)

Gemini Observatory

1. **K. Suess**, R. Bezanson, R. Feldmann, J. E. Greene, K. Hall-Hooper, Q. Hunt, M. Kriek, D. Narayanan, D. Setton, J. Spilker, 2019B: GS-2019B-Q-232, Characterizing the sizes and morphologies of $z \sim 0.6$ gas-rich quenched galaxies (7.7 hours)

Hubble Space Telescope

1. **K. Suess**, J. Spilker, R. Bezanson, M. Kriek, J. Greene, Cycle 25: [GO 15436](#), Understanding the Origin of Large Gas Reservoirs in Recently-Quenched Galaxies (3 orbits)

James Webb Space Telescope

4. **K. Suess**, A. Muzzin, & D. Marchesini et al., Cycle 4: [GO 7814](#), MINERVA: Unlocking the Hidden Gems of the Distant Universe and Completing HST and JWST's Imaging Legacy with Medium Bands (260 hrs NIRCcam; 127 hrs MIRI)
3. **K. Suess** & S. Alberts et al., Cycle 4: [GO 7874](#), Dust After Quenching: A Mid-Infrared View into the Hidden ISM of Distant Massive Galaxies (37.5 hrs NIRSpec IFU & MIRI MRS)
2. **K. Suess** & R. Wechsler et al., Cycle 3: [AR 5907](#), Characterizing the $z > 1$ satellite population with public deep-field JWST surveys (archival)
1. **K. Suess**, et al., Cycle 2: [GO 4111](#), Medium Bands, Mega Science: Spatially-resolved $R \sim 15$ spectrophotometry of 50,000 sources at $z=0.3-12$ (48 hrs NIRCcam; 30 hrs NIRISS)

Keck Observatory

3. M. Kriek*, **K. Suess**, R. Bezanson, J. Greene, J. Spilker, Spr 2019: U132, Testing the Quiescence of Massive, Gas-rich Post-starburst Galaxies (0.5 night, NIRES)
2. M. Kriek*, **K. Suess**, R. Bezanson, J. Greene, J. Spilker, Fall 2018: U093, Testing the Quiescence of Massive, Gas-rich Post-starburst Galaxies (0.5 night, NIRES)
1. M. Kriek*, **K. Suess**, R. Bezanson, J. Greene, J. Spilker, Spr 2018: U232, Testing the Quiescence of Massive, Gas-rich Post-starburst Galaxies (1 night, NIRES)

** acting PI; graduate students/postdocs cannot PI UC Keck proposals*

Lick Observatory

2. **K. Suess**, M. Kriek, K. Hall-Hooper, R. Bezanson, J. Greene, B. Holden, Fall 2018: S018, Spectroscopic Confirmation of Post-Starburst Galaxies (6 nights, Kast Spectrograph)
1. **K. Suess**, M. Kriek, J. Greene, R. Bezanson, Fall 2016: S018, The origin of compact quiescent galaxies as revealed by $z \sim 0.7$ post-starburst galaxies (3 nights, ShARCS LGS)

Very Large Array

1. **K. Suess**, J. Spilker, R. Bezanson, M. Kriek, J. Greene, Spr 2018: VLA/18A-390, Understanding the Origin of Large Gas Reservoirs in Recently-Quenched Galaxies (7.5 hours; A priority)

Co-I Telescope Programs

Atacama Large Millimeter/submillimeter Array: 2017.1.01109.S, 2016.1.01126.S, & 2019.1.01286.S, 2019.1.00702.S, 2021.1.00988.S, 2021.1.01535.S, 2022.1.00604.S, PIs R. Bezanson, M. Kriek, P.-F. Wu, & D. Setton, 156.8 hours.

Gemini Observatory: GN-2018B-Q-203 & GS-2018B-Q-104, GS-2018A-FT-112, GS-2017B-Q-35, GN-2017B-Q-37, GS-2017A-Q-56, PIs R. Bezanson & Q. Hunt, GMOS, 37.53 hours.

Keck Observatory: S21 U075, F20 U054, S20 U220, F19 U171, S19 U133, F18 U094, S18 U258, F17 U147, S17 U091, PI M. Kriek, 21 nights MOSFIRE & 4 nights LRIS.

Hubble Space Telescope: Cycle 28 16201, Cycle 28 16248, PI J. Spilker, WFC3 grism & imaging, 6 orbits.

James Webb Space Telescope: Cycle 1: PID 2110 (PI M. Kriek, 23hr NIRSpec).

Cycle 2: PID 3516 (PI Matthee, 47.2hr NIRCам grism), 3659 (PI D'Eugenio, 24hr NIRSpec), 4106 (PI Nelson, 14hr NIRSpec), 4196 (PI Gibson, 3hr NIRSpec), 4233 (PI A. de Graaff & Brammer, 58hr NIRSpec).

Cycle 3: PID 6405 (PIs S. Cutler & K. Whitaker, 20hr NIRSpec), 5629 (PIs M. Kriek, A. Beverage, & C. Cheng, 42hr NIRSpec), 5355 (PI M. Bustamante Rosell, archival), 5224 (PIs P. Oesch & R. Naidu, 34hr NIRSpec).

Cycle 4: PID 8317 (PI Kriek, 8hr NIRSpec), 8047 (PIs Wang & Nelson, 20hr NIRSpec), 8607 (PI Siegel, 20hr NIRSpec).

Very Large Array: VLA/19A-390 (PI R. Bezanson, 8hr), VLA/20A-188 (PI J. Spilker, 8.3hr), VLA/20B-281 (PI J. Spilker, 6.5hr), VLA/22A-362 (PI J. Spilker, 45hr), VLA/24B-451 (PI V. Donofrio, 21hr).

Research Mentorship

Dr. Ikki Mitsuhashi, CU Boulder postdoc; SFHs of high-z galaxies	2024 - present
Natalia Porraz, CU Boulder graduate student; extreme emission line galaxies in MegaScience	2024 - present
Richard Pan, Tufts graduate student; environmental quenching at cosmic noon	2024 - present
Brian Lorenz, UC Berkeley graduate student; medium-band dust maps at cosmic noon	2024 - present
Jenny Wan, Stanford graduate student; satellite galaxies at cosmic noon	2022 - present
Michelle Park, Stanford undergraduate; recovering SFHs of high-z quiescent galaxies	2022-2024

Teaching

ASTR-3800, Introduction to Scientific Data Analysis and Computing	Fall 2024
<i>Undergraduate majors course, ~ 35 students</i>	
ALMA Ambassador & Workshop Leader, Stanford University	2022
Graduate Student Instructor, UC Berkeley AY160: Stellar Physics	Fall 2016
Graduate Student Instructor, UC Berkeley Astro C10: Introduction to General Astronomy	Fall 2015

Service & Leadership

Respect Is Part of Research: peer-led sexual assault & harassment prevention workshops for incoming physics & astronomy graduate students,
respectispartofresearch.com

Co-coordinator, Respect is Part of Research (with Micah Brush) 2018 - 2021
(responsibilities: develop workshop content; coordinate with university survivor support office & Title IX office; secure program funding; work with university officials, statewide Title IX office, and graduate union to expand program to all UC Berkeley graduate departments)

Member, UC Berkeley Coordinated Community Review Team for Sexual and Gender-Based Violence and Misconduct	2020-2021
Facilitator training lead, Harvard University Physics Department Caltech Astronomy Department	Aug 2020
“Respect is Part of Research” – Presentation and Q&A, UC Berkeley Graduate Assembly	Feb 2020
Lead Organizer, “How to Start a Peer-Led SVSH Prevention Program” workshop (with Micah Brush)	Jan 2020
<i>(2-day workshop attended by ~25 grad students from 10 institutions to teach the Respect is Part of Research model; 4 new RPR chapters started for Fall 2020)</i>	
Presentation and Climate Q&A, Physics Department Faculty Retreat	Dec 2019
“Respect is Part of Research: Peer-Led Training to Improve Departmental Climate” UC Berkeley Astronomy Lunch Talks	Oct 2019
Facilitator training lead for UC Berkeley (7 academic departments, 55 peer facilitators)	Aug 2019
Facilitator, UC Berkeley College of Chemistry Diversity & Inclusion Focus Group	Feb 2019
Respect is Part of Research Facilitator	2017 - 2021

Other Service & Leadership

Journal Referee: ApJ, MNRAS, A&A	
NOIRLab Time Allocation Committee Panel Chair (Extragalactic)	2025A
NOIRLab Time Allocation Committee Panel Member (Extragalactic)	2023A - 2024B
NRAO Student Observing Support Grant Review Panel	2022
ALMA Ambassador <i>(lead two day-long workshops to teach community members radio interferometry, from radio basics to data reduction to writing ALMA proposals)</i>	2022
ALMA Distributed Time Allocation Committee member	Cycle 8, 9
Hubble Space Telescope Time Allocation Committee Panel Member (Galaxies)	Cycle 27, 27.5, 28
Facilitator, UC Berkeley Astronomy Racial Justice Book Club	Summer 2020, Fall 2020
UC Berkeley Astronomy Graduate Student Representative	2019-2020
Head of prospective graduate student visit committee, UC Berkeley	2018, 2019

Outreach

Latin American Webinars on Physics (~300 views; https://www.youtube.com/watch?v=mta_XWK4nwU)	Oct 2023
Early Results from <i>JWST</i> , CU STARS, Boulder, CO	Nov 2022
<i>JWST: a new era of distant galaxies</i> , KIPAC public lecture (~500 attendees), Stanford, CA	Oct 2022
Astro Circle speaker, BASIS Independent Silicon Valley High School, San Jose, CA	March 2022
<i>Tons of Fuel But No Fire</i> , UC Berkeley Grad Slam, Berkeley CA	Feb 2020
Lunch speaker, Berkeley High School STEMinist Club, Berkeley CA	Feb 2020
<i>Galaxies Across Cosmic Time</i> , Astro Night Public Lecture (~ 250 attendees), Berkeley CA	2019
<i>What's it like being an astronomer?</i> , MetWest High School, Oakland CA	2019
<i>Galaxies Across Time</i> , Public Talk at Grounds for Science (~ 50 attendees), Emeryville CA	2018
Head Expert, Branson School 9th Grade Science Symposium, Ross CA	2018
Berkeley High School STEMinist Club Shadow Day, UC Berkeley	2016
Astronomy department exposition at Cal Day, UC Berkeley	2016, 2018, 2019
Mentoring group, Society of Women in the Physical Sciences, UC Berkeley	2015 - 2020

Presentations

Seminars (* invited)

* <i>Colloquium</i> , Leiden Observatory	Apr 2025
*ITC Seminar, Center for Astrophysics, Harvard	March 2024
* <i>Colloquium</i> , Colorado State University Physics Department	Nov 2023
*Astronomy Seminar, Texas A&M Astronomy	Oct 2023
* <i>Colloquium</i> , CU Boulder Astrophysical & Planetary Sciences Department	Feb 2023
*Cosmology & Galaxy Seminar, UC Santa Cruz	Dec 2022
* <i>Colloquium</i> , CU Boulder Astrophysical & Planetary Sciences Department	Nov 2022
* <i>Colloquium</i> , KIPAC, Stanford University	Oct 2022
NRAO webinar, “How to write an ALMA proposal”	Apr 2022
FLASH seminar, UC Santa Cruz Astronomy Department	Apr 2022

*SCIPP seminar, UC Santa Cruz Physics Department	Jan 2022
* <i>Colloquium</i> , Saint Mary's University in Halifax	Sept 2021
*University of Hertfordshire Astronomy Seminar	June 2021
*CANDELS SED fitting working group meeting	Apr 2021
* <i>Colloquium</i> , University of Sussex	Apr 2021
*Caltech Tea Talk	Dec 2020
Princeton University GalRead Seminar	Nov 2020
Hernquist Group Meeting, Harvard University	Nov 2020
*UMass Amherst Galaxy Lunch Seminar	Oct 2020
University of Arizona Galaxy Group Talk	Oct 2020
*Harvard ITC Colloquium	Oct 2020
*Carnegie Observatories Lunch Talk	Oct 2020
UC Santa Cruz Cosmology-Galaxies-IGM Seminar	Sept 2020
*Galaxy Crawl, University of Arizona	July 2020
*UC Davis Cosmology Seminar	March 2020
CASA/JILA Lunch Seminar, Boulder CO	Feb 2020

Conference Presentations (* invited)

*Dancing in the Dark: When Galaxies Shape Galaxies; Sesto IT	June 2025
*Big Galaxies, Big Problems; Lorentz Center, Leiden, Netherlands	Apr 2025
Extreme Galaxies in their Extreme Environments at Extremely Early Epochs, Reykjavik, Iceland	May 2024
The Physics and Impact of Astrophysical Dust, Aspen CO	March 2024
*Hubble Symposium, Boston MA	Sep 2023
Revealing the Detailed Astrophysics of Early Galaxies with JWST, Aspen CO	Aug-Sep 2023
* Plenary on early JWST discoveries, Phenomenology Symposium, Pittsburgh PA	May 2023
*The Growth of Galaxies in the Early Universe VII, Sesto IT	March 2023
*First Light at Cosmic Dawn: Exploiting the James Webb Space Telescope Revolution, Bern CH	Jan 2023
*An In-Situ View of Galaxy Formation 2, Schloss Ringberg	July 2022
* Review , European Astronomical Society Annual Meeting: SS4, The Main Sequence of Star Formation	July 2022
Public Summit of the Action Collaborative on Preventing Sexual Harassment in Higher Education	Oct 2020
National Academies of Sciences, Engineering, and Medicine	
*Where the Star Formation Ends, Lorentz Center Workshop (<i>canceled due to COVID-19</i>)	March 2020
Galaxy Quenching and Transformation Throughout Cosmic Time, Aspen CO	Feb 2020
*The Growth of Galaxies in the Early Universe VI, Sesto IT	Jan 2020
The Art of Measuring Galaxy Physical Properties, Milano IT	Nov 2019
IAU Symposium 352: Uncovering early galaxy evolution in the ALMA and JWST era	June 2019
UC Santa Cruz Galaxy Workshop	Aug 2018

Press

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- *The Atlantic*, “Astronomers were not expecting this”, <https://www.theatlantic.com/science/archive/2023/03/webb-space-telescope-discovers-galaxies-astronomy/673274/>
 - Canada Public Radio interview on “As It Happens”, These red dots could change everything we think we know about how galaxies form, <https://www.cbc.ca/radio/asithappens/james-webb-distant-galaxies-1.6762078>
 - *Nature*, Four Revelations from the Webb Telescope about Distant Galaxies, [nature.com/articles/d41586-022-02056-5](https://www.nature.com/articles/d41586-022-02056-5)
 - NRAO Press Release, ALMA Witnesses Deadly Star-Slinging Tug-of-War Between Merging Galaxies, public.nrao.edu/news/alma-merging-galaxies-tidal-tails/
 - AAS Nova, Sizing Up Galaxies at Cosmic Noon, <https://aasnova.org/2022/12/02/sizing-up-galaxies-at-cosmic-noon/>

Publications (96 total, 13 as first author, 4 student-led; ADS)

As of June 2025, these works have 5995 citations with an h-index of 39. In the list below, my name is **bolded** and authors under my direct supervision are denoted with [†].

First author:

13. **Suess, K. A.**, Beverage, A. G., Kriek, M., et al., “Cold gas in a post-starburst pair at $z \sim 1.4$: major mergers as a pathway to quenching in the HeavyMetal survey,” 2025, [arXiv:2506.14361](https://arxiv.org/abs/2506.14361)

12. **Suess, K. A.**, Weaver, J. R., Price, S. H., et al., “*Medium Bands, Mega Science: A JWST/NIRCam Medium-band Imaging Survey of A2744*,” 2024, [ApJ 976 101](#)
11. **Suess, K. A.**, Williams, C. C., Robertson, B., et al., “*Minor Merger Growth in Action: JWST Detects Faint Blue Companions around Massive Quiescent Galaxies at $0.5 \leq z \leq 3.0$* ,” 2023, [ApJL 956 L42](#)
10. **Suess, K. A.**, Bezanson, R., Nelson, E. J., et al., “*Rest-frame Near-infrared Sizes of Galaxies at Cosmic Noon: Objects in JWST’s Mirror Are Smaller than They Appeared*,” 2022, [ApJL 937 L33](#)
9. **Suess, K. A.**, Leja, J., Johnson, B. D., et al., “*Recovering the Star Formation Histories of Recently Quenched Galaxies: The Impact of Model and Prior Choices*,” 2022, [ApJ 935 146](#)
8. **Suess, K. A.**, Kriek, M., Bezanson, R., et al., “*SQuIGGLE : Studying Quenching in Intermediate- z Galaxies-Gas, Angular Momentum, and Evolution*,” 2022, [ApJ 926 89](#)
7. **Suess, K. A.**, Kriek, M., Price, S. H., & Barro, G., “*Dissecting the Size-Mass and Σ_1 -Mass Relations at $1.0 < z < 2.5$: Galaxy Mass Profiles and Color Gradients as a Function of Spectral Shape*,” 2021, [ApJ 915 87](#)
6. **Suess, K. A.**, Kriek, M., Price, S. H., & Barro, G., “*Color Gradients along the Quiescent Galaxy Sequence: Clues to Quenching and Structural Growth*,” 2020, [ApJL 899 L26](#)
5. **Suess, K. A.**, Kriek, M., Price, S. H., & Barro, G., “*Half-mass Radii of Quiescent and Star-forming Galaxies Evolve Slowly from 0 lesssim $z \leq 2.5$: Implications for Galaxy Assembly Histories*,” 2019, [ApJL 885 L22](#)
4. **Suess, K. A.**, Kriek, M., Price, S. H., & Barro, G., “*Half-mass Radii for ~ 7000 Galaxies at $1.0 \leq z \leq 2.5$: Most of the Evolution in the Mass-Size Relation Is Due to Color Gradients*,” 2019, [ApJ 877 103](#)
3. **Suess, K. A.**, Bezanson, R., Spilker, J. S., et al., “*Massive Quenched Galaxies at $z \sim 0.7$ Retain Large Molecular Gas Reservoirs*,” 2017, [ApJL 846 L14](#)
2. **Suess, K. A.**, Darling, J., Haynes, M. P., & Giovanelli, R., “*Identifying OH Imposters in the ALFALFA Neutral Hydrogen Survey*,” 2016, [MNRAS 459 220-231](#)
1. **Suess, K.**, Snow, M., Viereck, R., & Machol, J., “*Solar Spectral Proxy Irradiance from GOES (SSPRING): a model for solar EUV irradiance*,” 2016, [Journal of Space Weather and Space Climate 6 A10](#)

Second or third author:

13. Verrico, M. E., French, K. D., **Suess, K.**, et al., “*Modeling Star Formation Histories of Changing-Look AGN Host Galaxies with Prospector*,” 2025, [arXiv:2506.19162](#)
12. [†]Lorenz, B., **Suess, K. A.**, Kriek, M., et al., “*Measuring Emission Lines with JWST-MegaScience Medium-Bands: A New Window into Dust and Star Formation at Cosmic Noon*,” 2025, [arXiv:2505.10632](#)
11. [†]Pan, R., **Suess, K. A.**, Marchesini, D., et al., “*UNCOVER/MegaScience: No Evidence of Environmental Quenching in a $z \sim 2.6$ Proto-cluster*,” 2025, [arXiv:2504.06334](#)
10. [†]Zhu, P., **Suess, K. A.**, Kriek, M., et al., “*SQuIGGLE: Observational Evidence of Low Ongoing Star Formation Rates in Gas-rich Post-starburst Galaxies*,” 2025, [ApJ 981 60](#)
9. Price, S. H., **Suess, K. A.**, Williams, C. C., et al., “*UNCOVER: The Rest-ultraviolet to Near-infrared Multiwavelength Structures and Dust Distributions of Submillimeter-detected Galaxies in A2744*,” 2025, [ApJ 980 11](#)
8. Miller, T. B., **Suess, K. A.**, Setton, D. J., et al., “*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*,” 2024, [arXiv:2412.06957](#)
7. Beverage, A. G., Kriek, M., **Suess, K. A.**, et al., “*The Heavy Metal Survey: The Evolution of Stellar Metallicities, Abundance Ratios, and Ages of Massive Quiescent Galaxies since $z \sim 2$* ,” 2024, [ApJ 966 234](#)
6. Ji, Z., Williams, C. C., **Suess, K. A.**, et al., “*JADES: Rest-frame UV-to-NIR Size Evolution of Massive Quiescent Galaxies from Redshift $z=5$ to $z=0.5$* ,” 2024, [arXiv:2401.00934](#)
5. [†]Hartley, A. I., Nelson, E. J., **Suess, K. A.**, et al., “*The first quiescent galaxies in TNG300*,” 2023, [MNRAS 522 3138-3144](#)
4. Nelson, E. J., **Suess, K. A.**, Bezanson, R., et al., “*JWST Reveals a Population of Ultrared, Flattened Galaxies at 2 lesssim z lesssim 6 Previously Missed by HST*,” 2023, [ApJL 948 L18](#)

3. Spilker, J. S., **Suess, K. A.**, Setton, D. J., et al., “*Star Formation Suppression by Tidal Removal of Cold Molecular Gas from an Intermediate-redshift Massive Post-starburst Galaxy*,” 2022, [ApJL 936 L11](#)
2. Bezanson, R., Spilker, J. S., **Suess, K. A.**, et al., “*Now You See It, Now You Don’t: Star Formation Truncation Precedes the Loss of Molecular Gas by 100 Myr in Massive Poststarburst Galaxies at $z \sim 0.6$* ,” 2022, [ApJ 925 153](#)
1. Setton, D. J., Bezanson, R., **Suess, K. A.**, et al., “*SQuIGGLE Survey: Massive $z \sim 0.6$ Post-starburst Galaxies Exhibit Flat Age Gradients*,” 2020, [ApJ 905 79](#)

Contributing author:

70. Cheng, C. M., Kriek, M., Beverage, A. G., Slob, M., Bezanson, R., Franx, M., Leja, J., Mancera Piñna, P. E., et al., including **KAS**, “*Ages and metallicities of quiescent galaxies: confronting broadband (UVJ) colours with stellar absorption lines*,” 2025, [MNRAS 540 1527-1543](#)
69. Furtak, L. J., Secunda, A. R., Greene, J. E., Zitrin, A., Labbé, I., Golubchik, M., Bezanson, R., Kokorev, V., et al., including **KAS**, “*Investigating photometric and spectroscopic variability in the multiply imaged little red dot A2744-QSO1*,” 2025, [A&Ap 698 A227](#)
68. Slob, M., Kriek, M., de Graaff, A., Cheng, C. M., Beverage, A. G., Bezanson, R., Forster Schreiber, N. M., Lorenz, B., et al., including **KAS**, “*Fast Rotators at Cosmic Noon: Stellar Kinematics for 15 Quiescent Galaxies from JWST-SUSPENSE*,” 2025, [arXiv:2506.04310](#)
67. Mintz, A., Setton, D. J., Greene, J. E., Leja, J., Wang, B., Burnham, E., **Suess, K. A.**, Atek, H., et al., “*Taking a Break at Cosmic Noon: Continuum-selected Low-mass Galaxies Require Long Burst Cycles*,” 2025, [arXiv:2506.16510](#)
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