Katherine A. (Wren) Suess

UC Santa Cruz Department of Astronomy and Astrophysics Stanford University Kavli Institue for Particle Physics and Cosmology suess@ucsc.edu

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wrensuess.github.io

Research Interests

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

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, summa cum laude, University of Colorado, Boulder	May 2015
Advisor: Jeremy Darling	

Honors thesis: Identifying OH Imposters in the ALFALFA Neutral Hydrogen Survey

Research Positions

Stanford - Santa Cruz Cosmology Fellow, UC Santa Cruz & Stanford University	2021 - present
UC Santa Cruz Chancellor's Fellow, UC Santa Cruz	2021 - present
NSF Graduate Research Fellow, UC Berkeley	2017 - 2021
Chancellor's Fellow, UC Berkeley	2015 - 2017
Undergraduate Research Assistant, CU Boulder Astrophysical & Planetary Sciences Dept	2013 - 2015
Undergraduate Research Assistant, Laboratory for Atmospheric and Space Physics (LASP)	2013 - 2015
NSF REU Research Student, LASP and NOAA Space Weather Prediction Center	Summer 2013
Undergraduate Research Assistant, (UROP program) CU Boulder Physics Dept	2012 - 2013

Selected Awards & Honors

Mary Elizabeth Uhl Prize for outstanding scholarly achievement by a graduate student	2021
finishing their dissertation in Astronomy or Physics	
UC Berkeley Grad Slam Semifinalist (final competition canceled due to COVID-19)	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

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)
- 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~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)

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 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.

Additional Observing Experience:

Keck Observatory: OSIRIS (2 nights), MOSFIRE (1 night), LRIS (0.5 night) Rudolph Minkowski Observational Astronomy Workshop, Lick Observatory, 2015

Teaching

Graduate Student Instructor, UC Berkeley AY160: Stellar Physics	Fall 2016
Graduate Student Instructor, UC Berkeley Astro C10: Introduction to General Astronomy	Fall 2015
Splash Instructor, "How do astronomers know anything?"	Fall 2015
Learning Assistant, CU Boulder Phys 1110: Introductory Physics for Majors	Fall 2012
Director of K-12 Education, AmeriCorps with CoPIRG Energy Service Corps	Oct 2011 - May 2012

Service

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 $\mathscr E$ 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	
	2020-2021
for Sexual and Gender-Based Violence and Misconduct	A 9090
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 Brus.	
(2-day workshop attended by \sim 25 grad students from 10 institutions to teach	,
the Respect is Part of Research model; 4 new RPR chapters started for Fall 2020)	
Presentation and Climate Q&A, Physics Department Faculty Retreat	Dec 2019
"Respect is Part of Research: Peer-Led Training to Improve Departmental Climate"	Oct 2019
UC Berkeley Astronomy Lunch Talks	A 2010
Facilitator training lead for UC Berkeley (7 academic departments, 55 peer facilitators)	Aug 2019
Facilitator, UC Berkeley College of Chemistry Diversity & Inclusion Focus Group Respect is Part of Research Facilitator	Feb 2019
Respect is Fart of Research Facilitator	2017 - present
Other Service	
Journal Referee: ApJ, A&A	
ALMA Ambassador (lead two day-long workshops to teach community members radio interferometry	y, 2022
from radio basics to data reduction to writing ALMA proposals)	
ALMA Distributed Time Allocation Committee member	Cycle 8
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	nmer 2020, Fall 2020
UC Berkeley Astronomy Graduate Student Representative	2019-2020
Head of prospective graduate student visit committee, UC Berkeley	2018, 2019
Graduate student mentor, Berkeley Astronomy Department Graduate Mentoring Program Prospective graduate student visit planning committee, UC Berkeley	2017 - present 2016 - 2017
Lead organizer, UC Berkeley Astronomy Department Public Liaisons	2016 - 2017
Graduate student mentor, Graduate-Undergraduate Mentoring Program, UC Berkeley	2016 - present
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Outreach	
Astro Circle speaker, BASIS Independent Silicon Valley High School, San Jose, CA	March 2022
Astro Circle speaker, BASIS Independent Silicon Valley High School, San Jose, CA Tons of Fuel But No Fire, UC Berkeley Grad Slam, Berkeley CA	Feb 2020
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*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
*In Situ View of Galaxy Formation 2, Schloss Ringberg (canceled due to COVID-19)	July 2020
*Where the Star Formation Ends, Lorentz Center Workshop (canceled due to COVID-19)	March 2020
*UC Davis Cosmology Seminar	March 2020
CASA/JILA Lunch Seminar, Boulder CO	Feb 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
UC Berkeley Grad Student / Postdoc Seminar, How to Write a Telescope Proposal	Apr 2018
UC Berkeley Astronomy Lunch Talk, Berkeley CA	Aug 2017
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Posters

Public Summit of the Action Collaborative on Preventing Sexual Harassment in Higher Education Oct 2020
National Academies of Sciences, Engineering, and Medicine

Publications (21 total, 10 as first author; ADS)

- 21. Spilker, J., K. A. Suess, D. J. Setton, R. Bezanson et al., Star Formation Suppression by Tidal Removal of Cold Molecular Gas from an Intermediate-redshift Massive Post-starburst Galaxy, ApJ 936, 1, L11, 2022. DOI: 10.3847/2041-8213/ac75ea
- 20. Tacchella, S., incl. **K. A. Suess**, JWST NIRCam+NIRSpec: Interstellar medium and stellar populations of young galaxies with rising star formation and evolving gas reservoirs, *in review at ApJ*. arXiv:2208.03281
- 19. Nelson, E., **K. A. Suess**, R. Bezanson, S. H. Price, JWST reveals a population of ultra-red, flattened disk galaxies at 2 < z < 6 previously missed by HST, in review at ApJL. arXiv:2208.01630
- 18. Suess, K. A., J. Leja, B. D. Johnson, R. Bezanson et al., Recovering the Star Formation Histories of Recently Quenched Galaxies: The Impact of Model and Prior Choices, ApJ 935, 2, 146. DOI: 10.3847/1538-4357/ac82b0
- 17. Labbe, I, P. van Dokkum, E. Nelson, R. Bezanson, K. A. Suess et al., A very early onset of massive galaxy formation, in review at Nature. arXiv:2207.12446
- 16. Suess, K. A., R. Bezanson, E. J. Nelson, D. J. Setton et al., Rest-frame near-infrared sizes of galaxies at cosmic noon: objects in JWST's mirror are smaller than they appeared, accepted to ApJL. arXiv:2207.10655
- 15. Naidu, R. P., P. A. Oesch, P. van Dokkum, E. J. Nelson, **K. A. Suess** et al., Two Remarkably Luminous Galaxy Candidates at $z \approx 11-13$ Revealed by JWST, in review at ApJL. arXiv:2207.09434
- 14. Setton, D. J., M. Verrico, R. Bezanson, J. E. Greene, **K. A. Suess** et al., The Compact Structures of Massive $z \sim 0.7$ Post-starburst Galaxies in the SQuIGG \vec{L} E Sample, ApJ 931, 1, 51, 2022. DOI: 10.3847/1538-4357/ac6096
- 13. Suess, K. A., M. Kriek, R. Bezanson, J. E. Greene et al., SQuIGGŽE: Studying Quenching in Intermediate-z Galaxies Gas, AnguŽar Momentum, and Evolution, ApJ 926, 1, 89, 2022. DOI: 10.3847/1538-4357/ac404a
- 12. R. Bezanson, J. Spilker, K. A. Suess, D. J. Setton 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 $z \sim 0.6$, ApJ 925, 2, 153, 2022. DOI: 10.3847/1538-4357/ac3dfa
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- 7. Suess, K. A., M. Kriek, S. H. Price, G. Barro, Half-mass radii of quiescent and star-forming galaxies evolve slowly from $0 \sim z \le 2.5$: implications for galaxy assembly histories, ApJL 885, L22, 2019. DOI: 10.3847/2041-8213/ab4db3
- 6. Suess, K. A., M. Kriek, S. H. Price, G. Barro, Half-mass radii for $\sim 7,000$ galaxies at $1.0 \le z \le 2.5$: most of the evolution in the mass-size relation is due to color gradients, ApJ 877, 103, 2019. DOI: 10.3847/1538-4357/ab1bda
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- 3. Suess, K. A., R. Bezanson, J. S. Spilker, M. Kriek, J. E. Greene, R. Feldmann, Q. Hunt, D. Narayanan, Massive Quenched Galaxies at $z\sim0.7$ Retain Large Molecular Gas Reservoirs, ApJL 846, L14, 2017. DOI: 10.3847/2041-8213/aa85dc
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Grants

ALMA Ambassador Research Award (\$10,000)	2022
NRAO Student Observing Support Award (\$10,000)	2020
Travel Grant, Aspen Center for Physics	Feb 2020
UC Berkeley Graduate Division Travel Grant	Summer 2019, Fall 2019
IAU Travel Grant	2019
AAS International Travel Grant	2019-1, 2019-2, 2020-1
STSci grant to support HST program GO 15436 (\$22,000)	2017
NRAO Student Observing Support Award (\$32,000)	2017
NSF Graduate Research Fellowship (3 years stipend & tuition)	2016
UC Berkeley Chancellor's Fellowship (2 years stipend & tuition)	2015
Professional and Academic Conference Endowment, CU Boulder	2014
Individual Grant, Undergraduate Research Opportunities Program, CU Boulder	2014
Research Assistantship, Undergraduate Research Opportunities Program, CU Boulder	2012

Press

Four Revelations from the Webb Telescope about Distant Galaxies, Nature, nature.com/articles/d41586-022-02056-5 ALMA Witnesses Deadly Star-Slinging Tug-of-War Between Merging Galaxies, NRAO Press Release, public.nrao.edu/news/alma-merging-galaxies-tidal-tails/

Skills

Computing Python, LATEX, Mathematica, bash, git

Other Software Prospector, FSPS, GALFIT, SExtractor, FAST, MESA