

# L. Y. Aaron Yung

Curriculum Vitae 

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Observational Cosmology Lab, Astrophysics Science Division  
NASA Goddard Space Flight Center  
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<https://lyaaronyung.github.io/>

## PROFESSIONAL APPOINTMENTS

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|---|----------------------------|
| <b>NASA Postdoctoral Fellow</b><br>Astrophysics Science Division, Goddard Space Flight Center<br>Greenbelt, Maryland, United States<br><i>science advisor: Dr. Jonathan Gardner</i> | <b>Oct 2020 – Present</b>  |
| <b>Flatiron Visiting Researcher</b><br>Center for Computational Astrophysics, Flatiron Institute<br>Manhattan, New York, United States  | <b>Sep 2016 – Sep 2020</b> |

## EDUCATION

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|--|----------------------|
| <b>Rutgers University</b> – New Jersey, United States<br><b>Ph.D. in Astrophysics</b><br><i>doctoral thesis advisor: prof. rachel somerville</i>   | <b>Class of 2020</b> |
| <b>University of San Francisco</b> – California, United States<br><b>B.S. in Physics (with Honors) and Mathematics (with Honors)</b><br><i>double minor in Astronomy and Astrophysics, Summa Cum Laude</i> | <b>Class of 2014</b> |

## SCIENTIFIC INTERESTS

*I am an expert in using semi-analytic methods to model the formation and evolution of galaxies and quasars in the early universe, as well as their subsequent impact on the reionization of the intergalactic hydrogen and helium. My prediction work is published under the banner “Semi-analytic forecasts”, which delivers a wide variety of predictions for high-redshift objects that are expected to be detected by JWST, Roman, and other observatories. I also work closely with numerous observing teams that utilize HST, JWST, and ground-based instruments, for which I supply physically-backed predictions crucial for survey planning and subsequent interpretations.*

## AWARDS & HONORS

- 2021 Richard J. Plano Dissertation Prize – Department of Physics & Astronomy, Rutgers  
– *given annually to a PhD graduate who wrote the best PhD dissertation in the past year*
- 2020 NASA Postdoctoral Program (NPP) Fellowship – National Aeronautics and Space Administration  
– *extremely selective fellowship in recognition of highly ranked academic and scientific achievement*
- 2014 Dr. Raymond Genolio Award – Department of Physics & Astronomy, USF  
– *award to graduating senior who ranks highest in scholarship in the Department of Physics*
- 2012 Mike and Millie Lehmann Scholarship – Department of Mathematics, USF  
– *award annually to the most outstanding student in the Department of Mathematics*
- 2012 Arthur Furst Undergraduate Scholarship – College of Arts & Sciences, USF  
– *award to a science student who demonstrates outstanding ability and passion to pursue research*
- Dean’s List – College of Arts & Sciences, USF, Fall 2010 - Spring 2014 Every Semester

**GRANTS AWARDED AS PI**

- 2021 *JWST* Cycle 1 – Constraining the Seeding and Growth of First Black Holes via Observable Signatures from the Early Universe (AR 2108)  
– a total grant of \$104,327 is awarded towards FY22-23 research and collaborator travel
- 2020 NPP Fellowship – Semi-analytic model for high-redshift multi-messenger surveys and multi-instrument synergy  
– a total grant of \$208,024 is awarded towards FY20-22 research and travel

**SELECTED GRANTS AND OBSERVING TIME AWARDED AS CO-I**

- 2021 *JWST* Cycle 1 – take part in a total of **6 approved GO/AR/Treasury programs**,  
– including GO 1837, GO 2079, GO 2123, GO 2426, AR 2608, AR 2687  
– totalling 401.6 (prime) / 191.5 (parallel) hours of observations
- 2020 *JWST* DD-ERS – The Cosmic Evolution Early Release Science (CEERS) Survey  
PI: Steve Finkelstein, 63.2 hours  
– a grant of \$9,361 is awarded towards critical theory support work
- 2019 *HST* Cycle 26 – Photometric Confirmation of the Brightest Known Galaxy Candidate at  $z > 9$   
PI: Steve Finkelstein, 2 orbits

**SELECTED EXTERNAL COLLABORATIONS**

- JWST* Cosmic Evolution Early Release Science (CEERS) Survey Mar 2018 - Present  
PI: Steve Finkelstein  
Funded *JWST* Early Release Science program that surveys the high-redshift Universe. <https://ceers.github.io>
- Next Generation Deep Extragalactic Exploratory Public (NGDEEP) Survey Mar 2020 - Present  
PI: Steve Finkelstein; Co-PI's Casey Papovich & Nor Pirzkal  
Selected *JWST* Cycle 1 major public GO/Treasury extragalactic survey program. Deepest survey among all selected.
- PRIMER: Public Release IMaging for Extragalactic Research Oct 2021 - Present  
PI: Jim Dunlop & Garth Illingworth  
Selected *JWST* Cycle 1 major public GO/Treasury extragalactic survey program. Largest survey among all selected.
- Roman Space Telescope* Cosmic Dawn Science Investigation Team Jun 2019 - Present  
PI: James Rhoads (NASA/GSFC)  
NASA-funded Science Investigation Team with objectives focused on studying the epoch of “Cosmic Dawn”.
- Experiment for Cryogenic Large-Aperture Intensity Mapping (EXCLAIM) Feb 2019 - Present  
PI: Eric Switzer (NASA/GSFC)  
NASA-funded line intensity mapping survey for CO and CII line emission from  $z = 0 - 3.5$  galaxies. ([link](#))
- The Isolated and Quenched (IQ) Collaboratory Sep 2017 - Present  
PI: Tjitske Starkenburg  
The IQ Collaboratory aims to bridge the gap between simulations and observations of star-forming and quiescent galaxies to better characterize internal quenching processes. See <https://iqcollaboratory.github.io>
- Undergraduate ALFALFA Team Aug 2012 - May 2014  
The NSF-funded UAT is a consortium of 19 institutions engaging in an undergraduate research under the Arecibo Legacy Fast ALFA (ALFALFA) project, which aims to detect neutral hydrogen in the local universe by utilizing the Arecibo L-band Feed Array (ALFA) at the Arecibo Observatory.

**OUTREACH & SERVICE**

- 2021 - Present    Extra-Galactic Science Interest Group – as part of NASA’s Cosmic Origins Program
- 2021 - Present    Subject Matter Expert for the Webb Mission – STScI’s JWST Community Events Team
- 2021 - Present    Referee for peer-reviewed journals – including *ApJ* and *MNRAS*
  
- 2021 - Present    Main host for the popular weekly science series on the social platform “*Clubhouse*”
  - in collaboration with NASA’s Chief Scientist Jim Green, Heidi Hammel, and many other experts
  - weekly events include the “*Astro Newsroom*” and the topical “*Ask An Astronomer* – [ $A^3$ ]” room
  - typical room reaches hundreds of listeners, with a peak of 1.6k for our room on Black Holes
  - I run the “*Astronomy & Astrophysics*” club that attracted 25k+ members since March 2021 debut
  
- 2019 - Present    Member of the American Astronomical Society (AAS)
  
- 2015 - 2016       President – Graduate Student Organization, Rutgers
- 2013 - 2014       President – USF Astronomy Club
- 2013 - 2014       Chapter Officer – Mathematics Honor Society (IIME), USF
- 2012 - 2013       Vice President – USF Astronomy Club

**TEACHING APPOINTMENTS**

- 2014 - 2016    Graduate Teaching Assistant – Department of Physics & Astronomy, Rutgers
- 2012 - 2014    Teaching Assistant – Department of Mathematics, USF
- 2011 - 2014    Teaching Assistant – Department of Physics & Astronomy, USF
- 2011 - 2013    Observation Assistant for Astronomy – Department of Physics & Astronomy, USF

**ADDITIONAL TRAINING & QUALIFICATIONS**

- 2022    NASA ROSES Proposal Writing Workshop – NASA/JPL, supported by NASA Science Mission Directorate
- 2022    NASA Mission Concept Development Workshop – NASA/GSFC, New Opportunities Office
- 2021    “Share the Science” Media Training – NASA/HQ, nominated by NASA/GSFC Science Communications
- 2021    Machine Learning × Physics/Astronomy – Center for Computational Astrophysics, Flatiron Institute
- 2016    Certificate of Training in Physics Mentorship – Department of Physics & Astronomy, Rutgers
- 2014    Certificate of Training in Physics Teaching – Department of Physics & Astronomy, Rutgers

**OTHER SKILLS & BACKGROUND**

- Language Proficiency:    English (Fluent), Mandarin (Fluent), French (Basic), Japanese (Basic)
- Scientific Programming:    Python (Primary), C++, FORTRAN, L<sup>A</sup>T<sub>E</sub>X, IDL, MATLAB, Mathematica

**CONFERENCE CONTRIBUTED TALKS**

- “*Semi-analytic forecasts for JWST: mock lightcones and data release*”  
Mar 14–18, 2022 – Sesto, Italy – The Growth of Galaxies in the Early Universe – VII (*invited*)
  
- “*Paving the way for JWST and Roman with Theory and Simulations*”  
Feb 2–4, 2022 – Virtual – SAZERAC SIP: Learning the High-Redshift Universe
  
- “*Semi-analytic forecasts for JWST: Getting into position for observing!*” – Contributed Research Talk
- “*Paving the way for Big Eyes with Theory and Simulations*” – NASA’s Hyperwall Exhibition Talk
- “*Quantifying Reionization with Roman*” – Roman Space Telescope Galaxy Evolution Splinter Session
- Jan 9–13, 2022 – Salt Lake City, Utah – the 239<sup>th</sup> AAS Meeting – *cancelled due to Omicron outbreak*

*“Lightcones for Roman Space Telescope & Simulated Observations”*

Nov 15–19, 2021 – Virtual – Roman Science Investigation Team Community Briefing

*“Semi-analytic forecasts: uncovering galaxy formation at high redshift with JWST and Beyond”*

Jul 6–9, 2020 – Virtual – Summer All Zoom Epoch of Reionization Astronomy Conference (SAZERAC)

*“Semi-analytic forecasts: uncovering galaxy formation at high redshift with JWST and Beyond”*Jan 4–8, 2020 – Honolulu, Hawai’i – the 235<sup>th</sup> AAS Meeting – dissertation talk*“Semi-analytic forecasts: high-redshift galaxy demographics and implications for reionization”*Jan 21–25, 2019 – Sesto, Italy – The Growth of Galaxies in the Early Universe – V (*invited*)*“Semi-analytic forecasts: uncovering galaxy formation with joint constraints from wide and deep surveys”*Aug 30–31, 2018 – Princeton, New Jersey – Workshop on *WFIRST*/LSST Deep Fields*“Semi-analytic forecasts: uncovering galaxy formation with joint constraints from wide and deep surveys”*Jul 23–27, 2018 – Noordwijk, Netherlands – ESA-ESTEC *JWST*/Euclid Synergy Conference*“Galaxy Formation in the Epoch of Reionization with SAM: Predictions for Upcoming JWST Observations”*

Feb 4–10, 2018 – Aspen, Colorado – Aspen Winter Conference on Astrophysics: Cosmic Dawn

*“Galaxy Formation at Extreme Redshifts: Semi-analytic Model Predictions and Challenges for Observations”*

Jun 12–16, 2017 – Paris, France – Galaxy Evolution Across Time

*“UV Luminosity Functions at  $z > 6$  predicted by Semi-analytic Models and implications for Reionization”*Jun 20–24, 2016 – Paris, France – the 32<sup>nd</sup> Institut d’Astrophysique de Paris Colloquium**CONFERENCE POSTERS***“Semi-Analytic Forecasts for JWST: Uncovering galaxy formation with joint constraints from deep surveys & reionization”*

Aug 5–9, 2019 – Santa Cruz, California – 2019 Santa Cruz Galaxy Workshop

*“Semi-Analytic Forecasts for JWST: Uncovering galaxy formation with joint constraints from deep surveys & reionization”*

Jun 24–28, 2019 – Paris, France –

CosmoGold IAP 2019: The golden age of cosmology from Planck to Euclid

*“Semi-Analytic Forecasts for JWST: Uncovering early galaxy evolution in the ALMA and JWST era”*

Jun 3–9, 2019 – Viana do Castelo, Portugal –

IAU Symposium 352: Uncovering early galaxy evolution in the ALMA and JWST era

*“Evolution of physical properties & scaling relations for high-redshift galaxies”*

Jul 15–20, 2018 – Kingston, Ontario, Canada –

The Physics of Galaxy Scaling Relations and the Nature of Dark Matter

*“Semi-analytic forecasts for JWST Trilogy”*

Jun 18–22, 2018 – Strasbourg, France – Rise and Shine: Galaxies in the Epoch of Reionization

*“Constraints on First-Stars Models From Observations of Local Low-Mass Dwarf Galaxies and Galactic Metal-Poor Halo Stars”*Jan 5–9, 2014 – Washington D.C., United States – the 223<sup>rd</sup> AAS Meeting – Poster #246.54**SELECTED EXTERNAL TALKS**Jul 21, 2022 – Roman Virtual Lecture Series, jointly hosted by JPL, IPAC, GSFC, and STScI (*virtual*)

Apr 28, 2022 – Austin, Texas – UT Austin, Cosmos Seminar

Feb 24, 2022 – Baltimore, Maryland – JWebbinar for the JWST community, hosted by STScI (*virtual*)Dec 9, 2021 – Baltimore, Maryland – Joint STScI–JHU Galaxies and AGN Seminar (*virtual, invited*)

Oct 14, 2021 – New York, New York – Columbia University, Astro Seminar (*invited*)  
 Feb 1, 2021 – Santa Cruz, California – UC Santa Cruz, CGI Seminar (*virtual, invited*)  
 Jul 16, 2020 – Sussex, England – University of Sussex, Astro Seminar (*virtual, invited*)  
 Mar 2, 2020 – New York, New York – *WFIRST* Science Jamboree II, *WFIRST* Science Community Meeting  
 Feb 7, 2020 – Toledo, Ohio – University of Toledo, Astro Seminar  
 Nov 7, 2019 – Oxford, England – University of Oxford, Galaxy Evolution Seminar  
 Nov 5, 2019 – Copenhagen, Denmark – Dark Cosmology Centre, Niel Bohr Institute  
 Nov 1, 2019 – Leiden, Netherlands – Lorentz Center, Leiden galaxy workshop  
 Sep 17, 2019 – Cambridge, Massachusetts – Harvard-Smithsonian *CfA*, Galaxies & Cosmology Seminar  
 Sep 4, 2019 – New Haven, Connecticut – Yale University, Galaxy Journal Club  
 Jul 30, 2019 – Greenbelt, Maryland – *WFIRST* Science Jamboree, *WFIRST* Science Community Meeting  
 Jun 21, 2019 – New York, New York – *Origins Space Telescope* Community Science Meeting  
 Feb 15, 2019 – Baltimore, Maryland – Space Telescope Science Institute, Galaxy Seminar  
 Nov 8, 2018 – San Francisco, California – University of San Francisco, Physics Colloquium  
 Oct 16, 2017 – Cape Town, South Africa – MPA-UWC Bilateral Workshop  
 Oct 12, 2017 – Heidelberg, Germany – Max-Planck-Institut für Astronomie, Galaxy Coffee

#### SELECTED INVITED PUBLIC TALKS

Nov 14, 2021 – Arlington, Virginia – David M. Brown Planetarium – JWST Community Event  
 Oct 28, 2021 – Annapolis, Maryland – Cafe Scientifique – JWST Community Event

#### CONFERENCE & WORKSHOP ORGANIZED

Models and Simulations of High-Redshift Galaxies – SAZERAC SIPS  
 – *Virtual conference, Oct 27-28, 2021* (served as SOC Chair)  
 – *As part of a long line of topic-focused, all-zoom mini conference series*

Joint CCA/STScI Workshop on “Epoch of Reionization and Early Galaxy Evolution with *JWST*”  
 – served as one of the five main organizers for the two-part conference series  
 – *Part I at the Space Telescope Science Institute (STScI), Baltimore, MD on Apr 20, 2018*  
 – *Part II at the Center for Computational Astrophysics (CCA), New York, NY on Jun 1, 2018*

SKA Pathfinders HI Science Coordination Committee (PHISCC) Workshop  
 – *Rutgers University, Mar 16-18, 2015* (served as LOC)

#### MAIN AUTHOR PUBLICATIONS

- [1] **Yung, L.Y.A.** et al. 2019a, *Semi-analytic forecasts for JWST – I. UV luminosity functions at  $z = 4 - 10$* , MNRAS, 483, 2983 ([arXiv:1803.09761](#))
- [2] **Yung, L.Y.A.** et al. 2019b, *Semi-analytic forecasts for JWST – II. Physical properties and scaling relations for galaxies at  $z = 4 - 10$* , MNRAS, 490, 2855 ([arXiv:1901.05964](#))
- [3] **Yung, L.Y.A.** et al. 2020a, *Semi-analytic forecasts for JWST – III. Intrinsic production rate of Lyman-continuum radiation*, MNRAS, 494, 1002 ([arXiv:1910.11345](#))
- [4] **Yung, L.Y.A.** et al. 2020b, *Semi-analytic forecasts for JWST – IV. Implications for cosmic reionization and LyC escape fraction*, MNRAS, 496, 4574 ([arXiv:2001.08751](#))
- [5] **Yung, L.Y.A.** et al. 2021, *Semi-analytic forecasts for JWST – V. AGN luminosity functions and helium reionization at  $z = 2 - 7$* , MNRAS, 508, 2706 ([arXiv:2109.13241](#))

[–] **Yung, L.Y.A.** et al., *Semi-analytic forecasts for JWST – VI. Mock photometric and spectroscopic observations with public data release*, in preparation

[–] **Yung, L.Y.A.** et al., *Semi-analytic forecasts for Roman Space Telescope: an early assessment for the next generation wide-field galaxy surveys*, in preparation

#### CO-AUTHOR PUBLICATIONS

[1] Jones, Michael G.; Papastergis, Emmanouil; Pandya, Viraj; ... ... include **Yung, L.Y.A.** 2018, *The contribution of HI-bearing ultra-diffuse galaxies to the cosmic number density of galaxies*, A&A 614, A21 ([arXiv:1712.01855](#))

[2] Stevans, Matthew L.; Finkelstein, Steven; Wold, Isak; ... ... include **Yung, L.Y.A.** 2018, *Bridging Star-Forming Galaxy and AGN Ultraviolet Luminosity Functions at  $z = 4$  with the SHELA Wide-Field Survey*, ApJ 863, 63 ([arXiv:1806.05187](#))

[3] Popping, Gergo; Pillepich, Annalisa; Somerville, Rachel S.; ... ... include **Yung, L.Y.A.** 2019, *The ALMA Spectroscopic Survey of the Hubble Ultra Deep Field: putting the H2 content of galaxies and of the Universe in a theoretical context with IllustrisTNG and the Santa Cruz SAM*, ApJ 882, 137 ([arXiv:1903.09158](#))

[4] Walter, Fabian; Carilli, Chris; Neeleman, Marcel; ... ... include **Yung, L.Y.A.** 2020, *The Evolution of the Baryons Associated with Galaxies Averaged over Cosmic Time and Space*, ApJ 902, 111 ([arXiv:2009.11126](#))

[5] Behroozi, Peter; Conroy, Charlie; Wechsler, Risa H.; ... ... include **Yung, L.Y.A.** 2020, *The Universe at  $z > 10$ : Predictions for JWST from the UNIVERSEMACHINE DR1*, MNRAS 499, 5702 ([arXiv:2007.04988](#))

[6] Yang, Guang; Papovich, C.; Bagley, M. B.; ... ... include **Yung, L.Y.A.** 2021, *JWST/MIRI Simulated Imaging: Insights into Obscured Star-Formation and AGN for Distant Galaxies in Deep Surveys*, ApJ 908, 144 ([arXiv:2011.08192](#))

[7] Somerville, Rachel S.; Olsen, Charlotte; **Yung, L.Y.A.**; ... ... 2021, *Mock Lightcones and Theory Friendly Catalogs for the CANDELS Survey*, MNRAS 502, 4858 ([arXiv:2102.00108](#))

[8] Dickey, Claire M.; Starkenburg, Tjitske K.; Geha, Marla; ... ... include **Yung, L.Y.A.** 2021, *IQ Collaboratory II: The Quiescent Fraction of Isolated Galaxies Across Simulations and Observations*, ApJ 915, 53 ([arXiv:2010.01132](#))

[9] Stevans, Matthew L.; Finkelstein, Steven; ... ... include **Yung, L.Y.A.** 2021, *The NEWFIRM HETDEX Survey: Photometric Catalog and the Quiescent Fraction of Massive Galaxies at  $z = 3 - 5$  over  $17.5 \text{ deg}^2$  in the SHELA Field*, ApJ 921, 58 ([arXiv:2103.14690](#))

[10] Switzer, Eric R.; Ade, Peter A. R.; Anderson, Christopher J.; ... ... include **Yung, L.Y.A.** 2021, *Experiment for Cryogenic Large-Aperture Intensity Mapping: Instrument design*, Journal of Astronomical Telescopes, Instruments, and Systems 7(4), 044004 ([doi: 10.1117/1.JATIS.7.4.044004](#))

[11] Hahn, ChangHoon; Starkenburg, Tjitske K.; Angles-Alcazar, Daniel; ... ... include **Yung, L.Y.A.** 2022, *IQ Collaboratory III: The Empirical Dust Attenuation Framework – Taking Hydrodynamical Simulations with a Grain of Dust*, ApJ 926, 122 ([arXiv:2106.09741](#))

- [12] Finkelstein, Steven L.; Bagley, Micaela; Song, Mimi; ... ... include **Yung, L.Y.A.** 2021, *A Census of the Bright  $z=8.5-11$  Universe with the Hubble and Spitzer Space Telescopes in the CANDELS Fields*, accepted for publication in ApJ ([arXiv:2106.13813](#))
- [13] Tacchella, Sandro; Finkelstein, Steven L.; ... ... include **Yung, L.Y.A.** 2021, *On the Stellar Populations of Galaxies at  $z=9-11$ : the Quest of Measuring Star-Formation Histories to Elucidate the First Galaxies*, accepted for publication in ApJ ([arXiv:2111.05351](#))
- [14] Harikane, Yuichi; Inoue, Akio K.; Mawatari, Ken; ... ... include **Yung, L.Y.A.** 2021, *A Search for H-band Dropout Lyman Break Galaxies at  $z \sim 12 - 16$* , accepted for publication in ApJ ([arXiv:2112.09141](#))
- [15] Gabrielpillai, Austen; Somerville, Rachel S.; Genel, Shy; ... ... include **Yung, L.Y.A.** 2021, *Galaxy Formation in the Santa Cruz semi-analytic model compared with IllustrisTNG – I. Galaxy scaling relations, dispersions, and residuals at  $z = 0$* , submitted to MNRAS ([arXiv:2111.03077](#))
- [16] Kakos, James; Primack, Joel R.; Rodríguez-Puebla, Aldo; ... ... include **Yung, L.Y.A.** 2022, *Galaxy Correlation Function and Local Density from Photometric Redshifts Using the Stochastic Order Redshift Technique (SORT)*, submitted to MNRAS ([arXiv:2201.05258](#))
- [17] Pullen, Anthony; Anderson, Christopher J.; Bolatto, Alberto; ... ... include **Yung, L.Y.A.** 2022, *Extragalactic Science with the Experiment for Cyogenic Large-Aperture Intensity Mapping*, submitted to MNRAS

## NON-REFEREED / WHITE PAPERS

- [1] Harikane, Yuichi et al. (include **Yung, L.Y.A.**) 2021, *Roman Cosmic Dawn Survey*, NASA/Goddard’s call for Roman Early-Definition Astrophysics Survey Concept
- [2] Koekemoer, Anton et al. (include **Yung, L.Y.A.**) 2021, *Roman Ultra Deep Field*, NASA/Goddard’s call for Roman Early-Definition Astrophysics Survey Concept
- [3] Malhotra, Sangeeta et al. (include **Yung, L.Y.A.**) 2021, *Deep Slitless Spectroscopy with Roman*, NASA/Goddard’s call for Roman Early-Definition Astrophysics Survey Concept
- [4] Papovich, Casey et al. (include **Yung, L.Y.A.**) 2021, *Roman Multi-Tiered Surveys (Roman-MTS) for Extragalactic Science*, NASA/Goddard’s call for Roman Early-Definition Astrophysics Survey Concept

## SELECTED PRESS & MEDIA APPEARANCES

- USF News Feature Article – “*To Infinity and Beyond*”
  - alumni story reporting on my scientific journey and my role with JWST (*Oct, 2021*)
- VOA - Voice of America Mandarin Service (U.S.-based broadcasting company)
  - JWST media inquiry as part of TV news report, multiple appearances from 2021 to 2022

## REFERENCES

- Dr. Jonathan P. Gardner – [jonathan.p.gardner\[at\]nasa.gov](#)
  - Deputy Senior Project Scientist for the James Webb Space Telescope
  - Research Astrophysicist at the Observational Cosmology Lab of the Astrophysics Science Division
  - Long-term collaborator on JWST theory support work and other observing teams
  - Science Advisor for the NASA Postdoctoral Fellowship at NASA/GSFC

Dr. Rachel S. Somerville – rsomerville [at] flatironinstitute.org

- *Group leader at the Center of Computational Astrophysics, Flatiron Institute*
- *Long-term collaborator on semi-analytic model development and related science*
- *Doctoral Thesis Advisor at Rutgers University during my PhD*

Prof. Steven L. Finkelstein – stevenf [at] astro.as.utexas.edu

- *Associate Professor at the University of Texas at Austin*
- *PI of the JWST CEERS and NGDEEP Teams and Co-I of the Roman Cosmic Dawn SIT*
- *Main collaborator for the Semi-analytic forecasts work series*
- *Long-term collaborator on JWST, HST, ALMA, Keck observing programs*

Prof. Romeel Davé – rad [at] roe.ac.uk

- *Chair of Physics at the University of Edinburgh*
- *Main collaborator for the Semi-analytic forecasts work series*
- *Long-term collaborator on projects related to cosmic reionization and 21-cm mapping*