

Vicente Estrada-Carpenter

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Bio

I am an observational extragalactic astronomer investigating how the baryon cycle shapes galaxy evolution, using star-forming clumps as tracers of the physical processes that govern galaxy growth. My research leverages spatially resolved spectroscopy from JWST, HST, and (soon) Roman. I developed **Sleuth**, a spectral analysis pipeline for wide-field slitless spectroscopy, and am an active member of the CANUCS, GRACE, and PEARLS collaborations. I lead a \$460k JWST Cycle 5 Legacy Archival Program and have authored five first-author papers (170+ citations) and co-authored more than 40 additional publications.

Research Interests

Galaxy evolution, star-forming clumps, stellar populations, star formation histories, galaxy quenching, spatially resolved spectroscopy (JWST, HST, and Roman), astrostatistics, spectral analysis, and development of the **Sleuth** spectral analysis pipeline.

Education

PhD in Astronomy

Texas A&M University

2018-2021

Thesis advisor: Casey Papovich

Thesis title: Stellar Populations and Formation Histories of Massive Galaxies Derived from Deep Hubble Space Telescope GRISM Data

Masters in Astronomy

Texas A&M University

2015-2018

Thesis advisor: Casey Papovich

Bachelors of Science in Physics

Southwestern University

2011-2014

Magna Cum Laude

Work experience

Beus Prize Postdoctoral Fellowship

2024-Present

Arizona State University

Tempe, AZ

- Supervisor: Allison Noble

Postdoctoral Fellow

2021-2024

Saint Mary's University

Halifax, NS, Canada

- Supervisor: Marcin Sawicki

Research Programs and Grants

1. 2026 – JWST Cycle 5 (PI) - (Legacy Archival Program 11074): *Resolving Galaxy Evolution: A Public Framework for JWST Slitless Spectroscopy* - \$460k USD

2. 2026 – JWST Cycle 5 (Co-PI) - (GO Program 9811): *SN-ECHOES: SuperNovae Embedded in Cluster-lensed, Hyper-luminous Overdensities of Extreme Starbursts*
3. 2026 – Roman Space Telescope Cycle 1 (Co-PI) - (GO Program 2003): *GRACE: The Grism Reionization And Cosmic Evolution Survey*
4. 2026 – Alma Cycle 13 (PI) - (GO Program 2026.1.01133.S): *ALMA CO(2–1) Imaging of JWST/NIRISS Clumpy Galaxies: Fueling, Metallicity Depletion, and Clump Origins*
5. 2025 – JWST Cycle 4 (Co-PI) - (GO Program 7049): *A Unique Opportunity to Probe Lensing-Magnified Star Clusters in a Low-Mass Galaxy at $z_{\text{spec}}=8.3$ with JWST*
6. 2024 – Canadian Space Agency Cycle 3 Grant - \$50k CAD
7. 2024 – JWST Cycle 3 (Co-PI) - (GO Program 5890): *JUMPS: The JWST Ultimate Medium-band Photometric Survey*
8. 2024 – JWST Cycle 3 (Co-PI) - (GTO Program 4527): *CANUCS: The CANadian NIRISS Unbiased Cluster Survey*
9. 2023 – JWST Cycle 2 (Co-PI) - (GO Program 2969): *Distant Sparkles: Are We Seeing Ancient Globular Clusters at Cosmic Noon?*
10. 2023 – JWST Cycle 2 (Co-PI) - (GO Program 4368): *Completing the SMACS 0723 NIRISS WFSS EROs*
11. 2023 – JWST Cycle 2 (Co-PI) - (GO Program 3383): *JWST Wide Area 3D Parallel Survey*
12. 2021 – JWST Cycle 1 (Co-PI) - (GO Program 2079): *The Next Generation Deep Extragalactic Exploratory Public (NGDEEP) Survey: Feedback in Low-Mass Galaxies from Cosmic Dawn to Dusk*
13. 2021 – HST Cycle 29 (Co-PI) - (AR Program 16609): *Peering Through The Dust: Paschen-beta Indicators of Star Formation and Dust Attenuation*
14. 2019 – HST Cycle 27 (Co-PI) - (GO Program 15968): *Paths to quiescence: gaseous feeding, morphology and star-formation histories of galaxies from the HST+MUSE Ultra Deep Field*
15. 2018 – HST Cycle 26 (Co-PI) - (GO Program 15637): *Exploring the gaseous surroundings of low-mass galaxies with an HST+MUSE Deep Field*

First Author Papers

Complete and up-to-date publication list: SciX Library

1. **Estrada-Carpenter, V.**, M. Sawicki, R. Abraham, Y. Asada, M. Bradač, G. Brammer, G. Desprez, K. G. Iyer, N. S. Martis, A. Muzzin, G. Noirot, G. Rihtaršič, G. T. E. Sarrouh, C. J. Willott, J. Favaro, V. Markov, R. M. Mérida, K. Myers, and V. Sok (2025) Metal-poor Star-forming Clumps in Cosmic Noon Galaxies: Evidence for Gas Inflow and Chemical Dilution Using JWST NIRISS The Astrophysical Journal, 991, 188, 10.3847/1538-4357/adfb64
2. **Estrada-Carpenter, V.**, M. Sawicki, G. Brammer, G. Desprez, R. Abraham, Y. Asada, M. Bradač, K. G. Iyer, N. S. Martis, J. Matharu, L. Mowla, A. Muzzin, G. Noirot, G. T. E. Sarrouh, V. Strait, and C. J. Willott (2024) When, where, and how star formation happens in a galaxy pair at cosmic noon using CANUCS JWST/NIRISS grism spectroscopy Monthly Notices of the Royal Astronomical Society, 532, 577, 10.1093/mnras/stae1368
3. **Estrada-Carpenter, V.**, C. Papovich, I. Momcheva, G. Brammer, R. C. Simons, N. J. Cleri, M. Giavalisco, J. Matharu, J. R. Trump, B. Weiner, and Z. Ji (2023) CLEAR: The Morphological

Evolution of Galaxies in the Green Valley The Astrophysical Journal, 951, 115, 10.3847/1538-4357/acd4be

4. **Estrada-Carpenter, V.**, C. Papovich, I. Momcheva, G. Brammer, R. Simons, J. Bridge, N. J. Cleri, H. Ferguson, S. L. Finkelstein, M. Giavalisco, I. Jung, J. Matharu, J. R. Trump, and B. Weiner (2020) CLEAR. II. Evidence for Early Formation of the Most Compact Quiescent Galaxies at High Redshift The Astrophysical Journal, 898, 171, 10.3847/1538-4357/aba004
5. **Estrada-Carpenter, V.**, C. Papovich, I. Momcheva, G. Brammer, J. Long, R. F. Quadri, J. Bridge, M. Dickinson, H. Ferguson, S. Finkelstein, M. Giavalisco, C. M. Gosmeyer, J. Lotz, B. Salmon, R. E. Skelton, J. R. Trump, and B. Weiner (2019) CLEAR. I. Ages and Metallicities of Quiescent Galaxies at $1.0 < z < 1.8$ Derived from Deep Hubble Space Telescope Grism Data The Astrophysical Journal, 870, 133, 10.3847/1538-4357/aaf22e

Co-Authored Papers

1. Petric, A., G. Noirot, S. Alberts, R. Ryan, L.-G. Strolger, **V. Estrada-Carpenter**, M. Singha, A. E. Bayer, O. Gilbert, F. Hasan, M. Huberty, B. Jin, X. Jin, A. Kumar, K. Mokhtarpour, P. Nair, E. Tsiakaliari, V. U, B. N. Vanderhoof, A. Akhtarkavan, N. Alvarez-Ibanez, R. Fernandez Aranda, T. L. Astraatmadja, C. Binu, C. Bolda, W. Brown, G. Romero Cruz, M. H. Abdullah, J. Favaro, M. Footh, H. Fraser, Y. Fu, A. Gimán, N. Gomez, M. Griggio, P. Gwartney, A. Haghighi, F. Hervas-Peters, J. Huang, S. Jaison, J. S. Kartaltepe, S. Kendrew, I. Kramarenko, S. Kumar, Z. Liu, A. S. Long, S. Malhotra, F. Manesh, J. Matharu, V. Mehta, E. M. Molter, I. Momcheva, Z. Pan, Y. Pang, P. Patil, R. Plesha, M. Rafelski, M. Revalski, J. Roychowdhury, G. Rudnick, S. Sankar, M. Seagraves, L. Shen, S. Shrestha, M. Taghizadeh-Popp, J. Taylor, W. L. Tee, S. Tompkins, F. Wang, X. Wang, I. Wold, J. J.-Y. Zhang, Q. Zhou, and Z. Zuo (2026) Surveying the Universe in 4D: Beating Cosmic Variance with Wide-Field Slitless Spectroscopy from HST, JWST, Euclid, Roman, and Beyond arXiv e-prints, arXiv:2609.23148, 10.48550/arXiv.2609.23148
2. Jaiswar, R., A. Gupta, E. Da Cunha, C. M. Trott, A. Battisti, I. Pérez, K. Glazebrook, L. Kawinwanichakij, Z. L. Hutchens, I. Momcheva, C. del P. Lagos, T. Nanayakkara, C. Jacobs, D. Marchesini, D. Wake, A. Shapley, G. Brammer, R. Hviding, C. Papovich, R. Sanders, R.-S. Remus, M. Tang, D. Stark, **V. Estrada-Carpenter**, J. Speagle, K. Iyer, and J. Matharu (2026) OutThere survey: Addressing $\xi_{ion} f_{esc}$ with a population of average galaxies at $z \geq 2$ Publications of the Astronomical Society of Australia, 43, e117, 10.1017/pasa.2026.10250
3. Martis, N. S., C. Willott, G. Rihtaršič, V. Pirc Jevšenak, R. Abraham, Y. Asada, M. Bradač, G. Brammer, G. Desprez, **V. Estrada-Carpenter**, K. Iyer, L. Mowla, A. Muzzin, G. Noirot, G. T. E. Sarrouh, M. Sawicki, S. Withers, G. Felicioni, J. Judež, D. Marchesini, V. Markov, K. Myers, L. Robbins, V. Sok, W. Suess, and R. Tripodi (2026) A New Window on the $H\alpha$ Luminosity Function and Star Formation Rate Density from $1.2 < z < 6.6$ from JWST Medium-Band Photometry arXiv e-prints, arXiv:2608.08203, 10.48550/arXiv.2608.08203
4. Willner, S. P., H. B. Gim, M. del C. Polletta, G. B. Bowling, S. H. Cohen, **V. Estrada-Carpenter**, A. M. Koekemoer, R. O'Brien, A. Pigarelli, C. N. A. Willmer, R. A. Windhorst, R. A. Jansen, R. Ortiz, J. Summers, W. Cotton, F. Civano, N. A. Grogin, W. P. Maksym, P. Saikia, R. M. Silver, and X. Zhao (2026) PEARLS: JWST Counterparts of Microjansky Radio Sources in the North Ecliptic Pole Time Domain Field. II. All Four Spokes The Astrophysical Journal, 1006, 219, 10.3847/1538-4357/ae796c
5. Sok, V., A. Muzzin, V. Y. Y. Tan, Y. Asada, M. Bradač, **V. Estrada-Carpenter**, K. G. Iyer, N. S. Martis, G. Noirot, G. T. E. Sarrouh, M. Sawicki, C. J. Willott, S. Withers, S. C. Berek, and K. Myers (2026) The Stellar Mass and Age Distributions of Star-forming Clumps at $0.5 < z < 5$ in JWST CANUCS: Implications for Clump Formation and Evolution The Astrophysical Journal, 1006, 176, 10.3847/1538-4357/ae80a5

6. Sok, V., A. Muzzin, B. Forrest, G. Wilson, J. Chen, V. Y. Y. Tan, S. Withers, R. Abraham, M. Bradač, **V. Estrada-Carpenter**, K. G. Iyer, N. S. Martis, G. Noirot, G. T. E. Sarrouh, M. Sawicki, C. J. Willott, A. Henry, N. Jagga, D. Marchesini, I. McConachie, K. Myers, N. Nunes, and L. Robbins (2026) Metal-poor Gas Accretion Drives Giant Clump Formation at $0.6 < z < 2.6$ *The Astrophysical Journal*, 1007, 176, 10.3847/1538-4357/ae8f42
7. Ortiz, R., F. Civano, R. A. Windhorst, S. P. Willner, G. B. Bowling, T. Carleton, S. H. Cohen, S. Creech, **V. Estrada-Carpenter**, B. L. Frye, N. A. Grogin, H. B. Hammel, T. Heckman, R. Honor, R. A. Jansen, S. Kikuta, A. M. Koekemoer, M. A. Marshall, S. Mesicek, M. Mezcua, S. N. Milam, S. D. Mork, R. O’Brien, P. Saikia, R. M. Silver, B. M. Smith, H. Suh, C. N. A. Willmer, H. Yan, and X. Zhao (2026) PEARLS: NuSTAR and XMM-Newton Extragalactic Survey of the JWST North Ecliptic Pole Time Domain Field VI: Multiwavelength SED Analysis arXiv e-prints, arXiv:2606.15365, 10.48550/arXiv.2606.15365
8. Markov, V., M. Bradač, **V. Estrada-Carpenter**, G. Desprez, G. Rihtaršič, J. Judež, R. Tripodi, M. Sawicki, G. Noirot, N. Martis, C. Willott, R. Abraham, Y. Asada, G. Brammer, J. Matharu, A. Muzzin, G. T. E. Sarrouh, S. Withers, A. Ferrara, S. Fujimoto, S. Gallerani, I. Goovaerts, and A. Harshan (2026) Resolving dust and Lyman α emission in a lensed galaxy at the epoch of reionization with JWST/CANUCS *Astronomy and Astrophysics*, 708, A236, 10.1051/0004-6361/202558580
9. Felicioni, G., M. Bradač, Y. Asada, N. S. Martis, G. T. E. Sarrouh, G. Desprez, G. Rihtaršič, N. Jagga, A. Harshan, J. Judež, C. J. Willott, R. Abraham, G. Brammer, **V. Estrada-Carpenter**, J. Matharu, A. Muzzin, G. Noirot, M. Sawicki, S. Withers, V. Markov, R. M. Mérida, V. Pirc Jevšenak, and R. Tripodi (2026) UV slopes of Starforming Galaxies in Strong Lensing fields at the Epoch of Reionization with JWST arXiv e-prints, arXiv:2602.17499, 10.48550/arXiv.2602.17499
10. Ferrami, G., N. J. Adams, L. Westcott, T. Harvey, R. A. Jansen, J. M. Diego, **V. Estrada-Carpenter**, R. A. Windhorst, C. J. Conselice, A. M. Koekemoer, J. C. J. D’Silva, C. Willmer, J. S. B. Wyithe, M. J. Rutkowski, S. H. Cohen, B. L. Frye, and N. A. Grogin (2026) Galaxy-scale lens search in the PEARLS NEP TDF and CEERS JWST fields *Monthly Notices of the Royal Astronomical Society*, 545, staf1991, 10.1093/mnras/staf1991
11. Sarrouh, G. T. E., Y. Asada, N. S. Martis, C. J. Willott, K. G. Iyer, G. Noirot, A. Muzzin, M. Sawicki, G. Brammer, G. Desprez, G. Rihtaršič, J. Zabl, R. Abraham, M. Bradač, R. Doyon, J. Antwi-Danso, S. Berek, W. Brown, **V. Estrada-Carpenter**, J. Favaro, G. Felicioni, B. Forrest, G. Gaspar, K. M. L. Gould, R. Gledhill, A. Harshan, N. Jahan, N. Jagga, J. Judež, D. Marchesini, V. Markov, J. Matharu, S. MacFarland, M. Merchant, R. M. Mérida, L. Mowla, K. Myers, K. C. Omori, C. Pacifici, S. Ravindranath, L. Robbins, V. Strait, V. Sok, V. Y. Y. Tan, R. Tripodi, G. Wilson, and S. Withers (2026) CANUCS/Technicolor Data Release 1: Imaging, Photometry, Slit Spectroscopy, and Stellar Population Parameters *The Astrophysical Journal Supplement Series*, 282, 3, 10.3847/1538-4365/ae1611
12. Adams, N. J., G. Ferrami, L. Westcott, T. Harvey, **V. Estrada-Carpenter**, C. J. Conselice, D. Austin, J. S. B. Wyithe, C. M. Goolsby, Q. Li, V. Rusakov, R. A. Windhorst, S. H. Cohen, R. A. Jansen, J. Summers, R. O’Brien, A. M. Koekemoer, S. P. Driver, B. Frye, N. P. Hathi, D. Coe, N. A. Grogin, M. A. Marshall, N. Pirzkal, R. E. Ryan, C. N. A. Willmer, H. Yan, B. W. Holwerda, P. S. Kamienieski, T. Broadhurst, W. P. Maksym, M. Ricotti, P. Saikia, and J. D. Gelfand (2025) JWSTs PEARLS: NIRCам imaging and NIRISS spectroscopy of a $z = 3.6$ star-forming galaxy lensed into a near-Einstein ring by a $z = 1.258$ massive elliptical galaxy *Monthly Notices of the Royal Astronomical Society*, 543, 3535, 10.1093/mnras/staf1518
13. Tripodi, R., N. Martis, V. Markov, M. Bradač, F. Di Mascia, V. Cammelli, F. D’Eugenio, C. Willott, M. Curti, M. Bhatt, S. Gallerani, G. Rihtaršič, J. Singh, G. Gaspar, A. Harshan, J. Judež, R. M. Merida, G. Desprez, M. Sawicki, I. Goovaerts, A. Muzzin, G. Noirot, G. T. E. Sarrouh, R.

- Abraham, Y. Asada, G. Brammer, **V. Estrada-Carpenter**, G. Felicioni, S. Fujimoto, K. Iyer, L. Mowla, and V. Strait (2025) Extreme properties of a compact and massive accreting black hole host in the first 500 Myr *Nature Communications*, 16, 9830, 10.1038/s41467-025-65070-x
14. Côté, P., T. E. Woods, J. B. Hutchings, J. D. Rhodes, R. Sánchez-Janssen, A. D. Scott, J. Pazder, M. Amenouche, M. Balogh, S. Blouin, A. Cournoyer, M. R. Drout, N. Kuzmin, K. J. Mack, L. Ferrarese, W. C. Fraser, S. C. Gallagher, F. Grandmont, D. Haggard, P. Harrison, V. Hénault-Brunet, J. J. Kavelaars, V. Khatu, J. C. Roediger, J. Rowe, M. Sawicki, J. Skottfelt, M. Taylor, L. van Waerbeke, L. Amen, D. Bansal, M. Bergeron, T. Brown, G. Burley, H. Chand, I. Cheng, R. Cloutier, N. Dickson, O. Djazovski, I. Damjanov, J. Doherty, K. Finner, M. G. Del Valle Espinosa, J. Glover, A. I. Gómez de Castro, O. Graur, T. Hardy, M. Kao, D. Leahy, D. Lokhorst, A. I. Malz, A. Man, M. A. Marshall, S. McGee, R. McKenzie, K. Michaud, S. S. More, D. Morris, P. W. Morris, T. Moutard, W. Naqvi, M. Nicholl, G. Noirot, M. S. Oey, C. Opitom, S. Salim, B. R. Scott, C. A. Shapiro, D. Stern, A. Subramaniam, D. Thilke, I. Wevers, D. Vorobiev, L. Y. A. Yung, F. Zamkotsian, S. Aigrain, A. Alavi, M. Barstow, P. Bartosik, H. Bluhm, J. Bovy, P. Cameron, R. G. Carlberg, J. L. Christiansen, Y. Chen, P. Crowther, K. Dage, A. L. Dotter, P. Dufour, J. Dupuis, B. Dryer, A. Duara, G. M. Eadie, M. R. Eduardo, **V. Estrada-Carpenter**, S. Fabbro, A. Faisst, N. M. Ford, M. Fraser, B. T. Gaensicke, S. Ganesh, P. Gandhi, M. L. Graham, R. Hamel, M. Hellmich, J. Hennessy, K. Hessel, J. Heyl, C. Heymans, Y. Hezaveh, R. Hlozek, M. E. Hoenk, A. Holland, E. Huff, I. Hutchinson, I. Iwata, A. D. Jewell, D. Johnstone, M. Jones, T. Jones, D. Lang, J. Lapington, J. Larivière, C. Lawlor-Forsyth, D. Laurin, C. Lee, R. Legin, T. S. Li, S. Lim, B. Ludwig, M. Kozun, M. Vivek, R. Mann, A. W. McConnachie, E. McDonough, S. Metchev, D. R. Miller, T. Moriya, C. Morgan, J. Navarro, Y. Nazé, S. Nikzad, V. Oad, N. Ouellette, E. K. Pass, W. J. Percival, L. P. Levasseur, J. Postma, N. Raza, G. T. Richards, H. Richer, C. Robert, E. Rosolowsky, J. J. Ruan, S. Rugheimer, S. Safi-Harb, K. Saha, V. Scowcroft, F. Sestito, H. Sharma, J. Sikora, G. R. Sivakoff, T. Sivarani, P. Smith, W. Soh, R. Sorba, S. Subramanian, H. Teimoorinia, H. I. Teplitz, S. Thadani, S. Thadani, A. Tohuvavohu, K. A. Venn, N. Vieira, J. J. Webb, P. Wiegert, R. Wierckx, Y. Wu, J. Yeung, and S. K. Yi (2025) The CASTOR mission *Journal of Astronomical Telescopes, Instruments, and Systems*, 11, 042202, 10.1117/1.JATIS.11.4.042202
 15. Saikia, P., R. Wrzosek, J. Gelfand, W. Briskin, W. Cotton, S. P. Willner, H. B. Gim, R. A. Windhorst, V. Estrada-Carpenter, I. Y. Katkov, I. Zaw, M. J. Nicandro Rosenthal, H. Shafi, K. Kellermann, J. Condon, A. M. Koekemoer, C. J. Conselice, R. Ortiz, C. N. A. Willmer, B. Frye, N. A. Grogin, H. B. Hammel, S. H. Cohen, R. A. Jansen, J. Summers, J. C. J. D'Silva, S. P. Driver, N. Pirzkal, H. Yan, and M. S. Yun (2025) Peering into the Heart of Darkness with VLBA: Radio-quiet Active Galactic Nucleus in the JWST North Ecliptic Pole Time-domain Field *The Astrophysical Journal*, 989, 29, 10.3847/1538-4357/ade709
 16. Rihtaršič, G., M. Bradač, G. Desprez, A. Harshan, G. Noirot, **V. Estrada-Carpenter** N. S. Martis, R. G. Abraham, Y. Asada, G. Brammer, K. G. Iyer, J. Matharu, L. Mowla, A. Muzzin, G. T. E. Sarrouh, M. Sawicki, V. Strait, C. J. Willott, R. Gledhill, V. Markov, and R. Tripodi (2025) CANUCS: Constraining the MACS J0416.1-2403 strong lensing model with JWST NIRISS, NIRSpec, and NIRCам *Astronomy and Astrophysics*, 696, A15, 10.1051/0004-6361/202451117
 17. Mowla, L., K. Iyer, Y. Asada, G. Desprez, V. Y. Y. Tan, N. Martis, G. Sarrouh, V. Strait, R. Abraham, M. Bradač, G. Brammer, A. Muzzin, C. Pacifici, S. Ravindranath, M. Sawicki, C. Willott, **V. Estrada-Carpenter**, N. Jahan, G. Noirot, J. Matharu, G. Rihtaršič, and J. Zabl (2024) Formation of a low-mass galaxy from star clusters in a 600-million-year-old Universe *Nature*, 636, 332, 10.1038/s41586-024-08293-0
 18. Harshan, A., R. Tripodi, N. S. Martis, G. Rihtaršič, M. Bradač, Y. Asada, G. Brammer, G. Desprez, **V. Estrada-Carpenter**, J. Matharu, V. Markov, A. Muzzin, L. Mowla, G. Noirot, G. T. E. Sarrouh, M. Sawicki, V. Strait, and C. Willott (2024) Detailed Study of Stars and Gas in

a $z = 8.3$ Massive Merger with Extreme Dust Conditions *The Astrophysical Journal Letters*, 977, L36, 10.3847/2041-8213/ad9741

19. Pirzkal, N., B. Rothberg, C. Papovich, L. Shen, G. C. K. Leung, M. B. Bagley, S. L. Finkelstein, B. N. Vanderhoof, J. M. Lotz, A. M. Koekemoer, N. P. Hathi, Y. Cheng, N. J. Cleri, N. A. Grogin, L. Y. A. Yung, M. Dickinson, H. C. Ferguson, J. P. Gardner, I. Jung, J. S. Kartaltepe, R. Ryan, R. C. Simons, S. Ravindranath, D. A. Berg, B. E. Backhaus, C. M. Casey, M. Castellano, Ó. A. Chávez Ortiz, K. Chworowsky, I. G. Cox, R. Davé, K. Davis, **V. Estrada-Carpenter**, A. Fontana, S. Fujimoto, M. Giavalisco, A. Grazian, T. A. Hutchison, A. E. Jaskot, L. J. Kewley, A. Kirkpatrick, D. D. Kocevski, R. L. Larson, J. Matharu, P. Natarajan, L. Pentericci, P. G. Pérez-González, G. F. Snyder, R. S. Somerville, J. R. Trump, and S. M. Wilkins (2024) The Next Generation Deep Extragalactic Exploratory Public Near-infrared Slitless Survey Epoch 1 (NGDEEP-NISS1): Extragalactic Star-formation and Active Galactic Nuclei at $0.5 < z < 3.6$ *The Astrophysical Journal*, 969, 90, 10.3847/1538-4357/ad429c
20. Willott, C. J., G. Desprez, Y. Asada, G. T. E. Sarrouh, R. Abraham, M. Bradač, G. Brammer, **V. Estrada-Carpenter**, K. G. Iyer, N. S. Martis, J. Matharu, L. Mowla, A. Muzzin, G. Noirot, M. Sawicki, V. Strait, G. Rihtaršič, and S. Withers (2024) A Steep Decline in the Galaxy Space Density beyond Redshift 9 in the CANUCS UV Luminosity Function *The Astrophysical Journal*, 966, 74, 10.3847/1538-4357/ad35bc
21. Sarrouh, G. T. E., A. Muzzin, K. G. Iyer, L. Mowla, S. Withers, N. S. Martis, R. Abraham, Y. Asada, M. Bradač, G. B. Brammer, G. Desprez, **V. Estrada-Carpenter**, J. Matharu, G. Noirot, M. Sawicki, V. Strait, C. J. Willott, and J. Zabl (2024) Exposing Line Emission: The Systematic Differences of Measuring Galaxy Stellar Masses with JWST NIRCам Medium versus Wide Band Photometry *The Astrophysical Journal Letters*, 967, L17, 10.3847/2041-8213/ad43e8
22. Desprez, G., N. S. Martis, Y. Asada, M. Sawicki, C. J. Willott, A. Muzzin, R. G. Abraham, M. Bradač, G. Brammer, **V. Estrada-Carpenter**, K. G. Iyer, J. Matharu, L. Mowla, G. Noirot, G. T. E. Sarrouh, V. Strait, R. Gledhill, and G. Rihtaršič (2024) Λ CDM not dead yet: massive high- z Balmer break galaxies are less common than previously reported *Monthly Notices of the Royal Astronomical Society*, 530, 2935, 10.1093/mnras/stae1084
23. Bagley, M. B., N. Pirzkal, S. L. Finkelstein, C. Papovich, D. A. Berg, J. M. Lotz, G. C. K. Leung, H. C. Ferguson, A. M. Koekemoer, M. Dickinson, J. S. Kartaltepe, D. D. Kocevski, R. S. Somerville, L. Y. A. Yung, B. E. Backhaus, C. M. Casey, M. Castellano, Ó. A. Chávez Ortiz, K. Chworowsky, I. G. Cox, R. Davé, K. Davis, **V. Estrada-Carpenter**, A. Fontana, S. Fujimoto, J. P. Gardner, M. Giavalisco, A. Grazian, N. A. Grogin, N. P. Hathi, T. A. Hutchison, A. E. Jaskot, I. Jung, L. J. Kewley, A. Kirkpatrick, R. L. Larson, J. Matharu, P. Natarajan, L. Pentericci, P. G. Pérez-González, S. Ravindranath, B. Rothberg, R. Ryan, L. Shen, R. C. Simons, G. F. Snyder, J. R. Trump, and S. M. Wilkins (2024) The Next Generation Deep Extragalactic Exploratory Public (NGDEEP) Survey *The Astrophysical Journal Letters*, 965, L6, 10.3847/2041-8213/ad2f31
24. Asada, Y., M. Sawicki, R. Abraham, M. Bradač, G. Brammer, G. Desprez, **V. Estrada-Carpenter**, K. Iyer, N. Martis, J. Matharu, L. Mowla, A. Muzzin, G. Noirot, G. T. E. Sarrouh, V. Strait, C. J. Willott, and A. Harshan (2024) Bursty star formation and galaxy-galaxy interactions in low-mass galaxies 1 Gyr after the Big Bang *Monthly Notices of the Royal Astronomical Society*, 527, 11372, 10.1093/mnras/stad3902
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26. Noirot, G., G. Desprez, Y. Asada, M. Sawicki, **V. Estrada-Carpenter**, N. Martis, G. Sarrouh,

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 28. Simons, R. C., C. Papovich, I. G. Momcheva, G. Brammer, **V. Estrada-Carpenter**, S. L. Finkelstein, C. M. Gosmeyer, J. Matharu, J. R. Trump, B. E. Backhaus, Y. Cheng, N. J. Cleri, H. C. Ferguson, K. Finlator, M. Giavalisco, Z. Ji, I. Jung, J. M. Lotz, R. O’Brien, R. E. Skelton, V. Tilvi, and B. Weiner (2023) CLEAR: Survey Overview, Data Analysis, and Products *The Astrophysical Journal Supplement Series*, 266, 13, 10.3847/1538-4365/acc517
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32. Mowla, L., K. G. Iyer, G. Desprez, **V. Estrada-Carpenter**, N. S. Martis, G. Noirot, G. T. Sarrouh, V. Strait, Y. Asada, R. G. Abraham, G. Brammer, M. Sawicki, C. J. Willott, M. Bradac, R. Doyon, A. Muzzin, C. Pacifici, S. Ravindranath, and J. Zabl (2022) The Sparkler: Evolved High-redshift Globular Cluster Candidates Captured by JWST The Astrophysical Journal Letters, 937, L35, 10.3847/2041-8213/ac90ca
 33. Matharu, J., C. Papovich, R. C. Simons, I. Momcheva, G. Brammer, Z. Ji, B. E. Backhaus, N. J. Cleri, **V. Estrada-Carpenter**, S. L. Finkelstein, K. Finlator, M. Giavalisco, I. Jung, A. Muzzin, E. J. Nelson, A. Pillepich, J. R. Trump, and B. Weiner (2022) CLEAR: The Evolution of Spatially Resolved Star Formation in Galaxies between $0.5 \leq z \leq 1.7$ Using H α Emission Line Maps The Astrophysical Journal, 937, 16, 10.3847/1538-4357/ac8471
 34. Papovich, C., R. C. Simons, **V. Estrada-Carpenter**, J. Matharu, I. Momcheva, J. R. Trump, B. E. Backhaus, G. Brammer, N. J. Cleri, S. L. Finkelstein, M. Giavalisco, Z. Ji, I. Jung, L. J. Kewley, D. C. Nicholls, N. Pirzkal, M. Rafelski, and B. Weiner (2022) CLEAR: The Ionization and Chemical-enrichment Properties of Galaxies at $1.1 < z < 2.3$ The Astrophysical Journal, 937, 22, 10.3847/1538-4357/ac8058
 35. Jung, I., C. Papovich, S. L. Finkelstein, R. C. Simons, **V. Estrada-Carpenter**, B. E. Backhaus, N. J. Cleri, K. Finlator, M. Giavalisco, Z. Ji, J. Matharu, I. Momcheva, A. N. Straughn, and J. R. Trump (2022) CLEAR: Boosted Ly α Transmission of the Intergalactic Medium in UV-bright Galaxies The Astrophysical Journal, 933, 87, 10.3847/1538-4357/ac6fe7
 36. Cleri, N. J., J. R. Trump, B. E. Backhaus, I. Momcheva, C. Papovich, R. Simons, B. Weiner, **V. Estrada-Carpenter**, S. L. Finkelstein, M. Giavalisco, Z. Ji, I. Jung, J. Matharu, F. Martinez, and M. R. Sturm (2022) CLEAR: Paschen- β Star Formation Rates and Dust Attenuation of Low-redshift Galaxies The Astrophysical Journal, 929, 3, 10.3847/1538-4357/ac5a4c
 37. Backhaus, B. E., J. R. Trump, N. J. Cleri, R. Simons, I. Momcheva, C. Papovich, **V. Estrada-Carpenter**, S. L. Finkelstein, J. Matharu, Z. Ji, B. Weiner, M. Giavalisco, and I. Jung (2022) CLEAR: Emission-line Ratios at Cosmic High Noon The Astrophysical Journal, 926, 161, 10.3847/1538-4357/ac3919
 38. Simons, R. C., C. Papovich, I. Momcheva, J. R. Trump, G. Brammer, **V. Estrada-Carpenter**, B. E. Backhaus, N. J. Cleri, S. L. Finkelstein, M. Giavalisco, Z. Ji, I. Jung, J. Matharu, and B. Weiner (2021) CLEAR: The Gas-phase Metallicity Gradients of Star-forming Galaxies at $0.6 < z < 2.6$ The Astrophysical Journal, 923, 203, 10.3847/1538-4357/ac28f4
 39. Yang, G., **V. Estrada-Carpenter**, C. Papovich, F. Vito, J. L. Walsh, Z. Yao, and F. Yuan (2021) Do Current X-Ray Observations Capture Most of the Black-hole Accretion at High Redshifts? The Astrophysical Journal, 921, 170, 10.3847/1538-4357/ac2233
 40. Simons, R., **V. Estrada-Carpenter**, C. Gosmeyer, C. Papovich, and I. Momcheva (2019) CLEAR:

CANDELS Ly-alpha Emission at Reionization processing pipeline and library Astrophysics Source Code Library, ascl:1904.010,

41. Vazquez, B., P. Galianni, M. Richmond, A. Robinson, D. J. Axon, K. Horne, T. Almeyda, M. Fausnaugh, B. M. Peterson, M. Bottorff, J. Gallimore, M. Eltizur, H. Netzer, T. Storch-Bergmann, A. Marconi, A. Capetti, D. Batcheldor, C. Buchanan, G. Stirpe, M. Kishimoto, C. Packham, E. Perez, C. Tadhunter, J. Upton, and **V. Estrada-Carpenter** (2015) Spitzer Space Telescope Measurements of Dust Reverberation Lags in the Seyfert 1 Galaxy NGC 6418 The Astrophysical Journal, 801, 127, 10.1088/0004-637X/801/2/127

Invited Talks

1. ASU Cosmology Seminar, Tempe, Arizona, 2026
2. ISSI Team Meeting, Bern, Switzerland, 2026
3. ESA Special Session on Star-Forming Clumps (Review Talk), Lausanne, Switzerland, 2026
4. Astronomy Seminar, University of California Riverside, Riverside, California, 2026
5. FLASH Talk, NOIRlab, Tuscon, Arizona, 2025
6. Astro Seminar, University of Kansas, Virtual, 2025
7. 2024 ICA Symposium, Halifax, NS, Canada, 2024
8. Data Analytics Seminar, Virtual, 2022
9. Cosmic Dawn Center Seminar, University of Copenhagen, Virtual, 2022
10. Astronomy Colloquium, Saint Mary's University, Halifax NS Canada, 2021
11. CANDELS SED fitting group, Virtual, 2020
12. Galaxies Journal Club, STScI, Virtual, 2020
13. HiGEM meeting, Center for Astronomy, Virtual, 2020
14. Astronomy Seminar, University of California, Riverside, Virtual, 2020
15. Galaxy Lunch Talk, University of Massachusetts Amherst, Virtual, 2020
16. Astronomy Seminar, University of California Los Angeles, Virtual, 2020
17. Astronomy Seminar, University of California Davis, Virtual, 2020
18. Astronomy Seminar, California Institute of Technology, Virtual, 2020
19. ExGal/Cosmology Seminar, University of Texas Austin, Virtual, 2020
20. Cosmic Dawn Center Seminar, University of Copenhagen, Copenhagen, Denmark, 2019

Contributed Talks

1. Surveying the Universe in 4D (Talk & Demo), STScI, Baltimore, Maryland, 2026
2. GalFirenze, Florence, Italy, 2026
3. End of Star-Formation, Champaign, Illinois, 2026
4. Galaxy Memoirs (Poster Presentation), Búzios, Brazil, 2025
5. CANUCS Team Meeting, Bled, Slovenia, 2025
6. SESE Symposium, Arizona State University, Tempe, Arizona, 2024

7. CANUCS Science Meeting, Virtual, 2022
8. Multi-Object Spectroscopy Workshop, STScI, Virtual, 2021
9. AAS Meeting #237, Virtual, 2021
10. Roman2020 (Poster Presentation), Virtual, 2020
11. Galread Seminar, Princeton, Virtual, 2020
12. SAZERAC (Poster Presentation), Virtual, 2020
13. CEERS Team Meeting, Montgomery, Texas, 2020
14. AAS Meeting #235, Virtual, 2020
15. The Art of Measuring Galaxy Physical Properties, INAF, Milan, Italy, 2019
16. Frank N. Bash Symposium 2019 – New Horizons in Astronomy (Poster Presentation), University of Texas at Austin, Austin, Texas, 2019
17. GMT Community Science Meeting (Poster Presentation), Carlsbad, California, 2019
18. CLEAR Team Meeting, STScI, Baltimore, Maryland, 2019
19. Workshop on Astronomy and Statistics, Texas A&M University, College Station, Texas, 2019
20. Extremely Big Eyes on the Early Universe, University of California, Los Angeles, Los Angeles, California, 2019
21. AAS Meeting #233, Seattle, Washington, 2019
22. CLEAR Team Meeting, Montgomery, Texas, 2018
23. CANDELS Team Meeting, University of Massachusetts Amherst, Amherst, Massachusetts, 2018
24. CEERS Team Meeting, Montgomery, Texas, 2018
25. Plumbing Star Formation Rates in the Era of JWST, Texas A&M University, College Station, Texas, 2017
26. Frank N. Bash Symposium 2017 – New Horizons in Astronomy (Poster Presentation), University of Texas at Austin, Austin, Texas, 2017
27. Chemical Evolution of the Universe (Poster Presentation), Tarrytown, New York, 2017
28. CANDELS Team Meeting, UC Santa Cruz, Santa Cruz, California, 2017
29. AAS Meeting #229 (Poster Presentation), Grapevine, Texas, 2017
30. ZFOURGE Collaboration Meeting, Montgomery, Texas, 2016
31. ZFOURGE Collaboration Meeting, Montgomery, Texas, 2015
32. AAS Meeting #223 (Poster Presentation), Washington, D.C., 2014
33. Texas Section APS Meeting (Poster Presentation), University of Texas at Brownsville, Brownsville, Texas, 2013
34. Frank N. Bash Symposium (Poster Presentation), University of Texas at Austin, Austin, Texas, 2013

Fellowships

1. **2024-present** – Beus Prize Postdoctoral Fellow, Arizona State University

2. **2025-2026** – Hispanic-Serving Research Universities Postdoctoral Fellow, Alliance of Hispanic-Serving Research Universities
3. **2019-2021** – Future Investigator, NASA Future Investigators in NASA Earth and Space Science and Technology (FINESST) Program
4. **2018-2019** – Hagler Institute for Advanced Study HEEP Graduate Fellow, Texas A&M University
5. **2015-2018** – Diversity Fellow, Texas A&M University

Press and Media Coverage

- | | |
|-------------|---|
| 2026 | <i>Sleuth Pipeline</i> — ASU News. Coverage of my development of Sleuth, a spectral analysis pipeline that will make spatially resolved JWST slitless spectroscopy accessible to the astronomical community, enabling detailed studies of how galaxies form and evolve. |
| 2024 | <i>The Cosmic Question Mark</i> — NASA Science. Coverage of JWST observations of a rare gravitationally lensed galaxy pair, revealing active star formation in compact regions and providing insight into the early stages of galaxy interactions. |
| 2022 | <i>The Sparkler Galaxy</i> — University of Toronto News. Coverage of the discovery of some of the most distant known globular clusters around a galaxy observed nine billion years in the past, providing a glimpse into the formation of ancient star clusters. |

Service

1. **Beus Seminar Committee:** Help to select speakers for Beus seminar and help to host speakers.
2. **Conference organization:** Member of the Scientific Organizing Committee, *Surveying the Universe in 4D*, Space Telescope Science Institute (2026); a conference focused on wide-field slitless spectroscopy
3. **JWST proposal review:** (external reviewer), Cycles 4,5
4. **HST proposal review:** (external reviewer), Cycle 31,33
5. **NASA FINESST proposal review:** (external reviewer), 2022
6. **NSF proposal review:** Panelist
7. **Journal refereeing:** Referee for *The Astrophysical Journal* (2 manuscripts) and *Astronomy & Astrophysics* (2 manuscripts)

Mentorship

1. **Rosalia O'Brien** – (undergraduate - Texas A&M University) - I worked with Rosalia to create an interactive website for the CLEAR dataset, and also worked on a project measuring color gradients of quiescent galaxies. Rosalia recently earned her PhD from Arizona State University, working with Rogier Windhorst, and is moving on to her first postdoc position.
2. **Felix Martinez** – (undergraduate - Texas A&M University) - Felix and I worked on a project to compare the star formation histories of quiescent galaxies in different environments. Felix is currently a graduate student at the Rochester Institute of Technology
3. **Katherine Myers** – (undergraduate - Saint Mary's University) - For her honors thesis, Katherine worked with me on a project to measure the H α distribution in merging pairs. Katherine is currently a graduate student at York University in Toronto.
4. **Makenna Hartmann** – (undergraduate - Arizona State University) - Currently, Makenna is working with me to measure the star formation histories of massive galaxies in the CANUCS dataset using SED fits to NIRISS grism + photometry.

5. **Jeremy Favaro** – (graduate student - Saint Mary's University) - Currently, I am co-supervising Jeremy, along with Marcin Sawicki, to measure both the integrated and spatially resolved metallicity properties of Cosmic Noon galaxies in the CANUCS dataset
6. **Sarah Saavedra** – (graduate student - McGill University)- Currently, I am working with Sarah, along with Alison Noble, to study clumpy galaxies using both optical and radio data
7. **Spencer Emmons** – (undergraduate - Arizona State University)- Currently, I am working with Spencer to compare the light profiles of H α emission line and continuum maps

Teaching Experience

2025	Guest Lecturer, Astronomy Lab – Arizona State University: Presented a lecture on spectroscopy with examples from my research.
2014-2015	Lab Assistant – Texas State University: Delivered short lectures on the physics of experiments, assisted students, and graded assignments.
2011–2012	Lab Technician – Austin Community College: Set up experiments, assisted students with lab work, and answered questions.

Honors and Recognition

2014	Excellence in Physics Award, Southwestern University
2014	King Creativity Grant, Southwestern University
2013	Feagin Scholarship, for excellence in physics, Southwestern University
2013	Best undergraduate poster presentation, Texas Section APS meeting
2013	King Creativity Grant, Southwestern University
2012	King Creativity Grant, Southwestern University