



**Vicente Estrada-Carpenter**  
**NASA**  
**FINESST Future Investigator**

*Graduate Student*  
*Department of Physics and Astronomy*  
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## RESEARCH INTERESTS

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Astrophysics, Galaxy Evolution, Stellar Populations, Astrostatistics, Spectral Analysis

## EDUCATION

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<b>PhD in Astronomy</b> <i>Texas A&amp;M University</i> Thesis advisor: Casey Papovich	2018-2021
<b>Masters in Astronomy</b> <i>Texas A&amp;M University</i> Thesis advisor: Casey Papovich	2015-2018
<b>Bachelors of Science in Physics</b> <i>Southwestern University</i> Magna Cum Laude	2011-2014

## PRESENTATIONS

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- AAS meeting #235, Oral presentation, Honolulu HI, 2020
- The Art of Measuring Galaxy Physical Properties, Oral presentation, INAF, Milan, Italy, 2019
- Frank N. Bash Symposium 2019 - New Horizons in Astronomy, Poster presentation, University of Texas, Austin TX, 2019
- GMT Community Science Meeting, Poster presentation, Carlsbad Ca, 2019
- Guest Speaker at the Cosmic Dawn Center, Oral presentation, University of Copenhagen, Copenhagen, Denmark, 2019
- CLEAR Team Meeting, Oral presentation, STSCI, Baltimore MD, 2019
- Workshop on Astronomy and Statistics, Oral presentation, Texas A&M University, College Station TX, 2019
- Extremely Big Eyes on the Early Universe, Oral presentation, University of California Los Angeles, Los Angeles CA, 2019

- AAS meeting #233, Oral presentation, Seattle Wa, 2019
- CLEAR Team Meeting, Oral presentation, Montgomery TX 2018
- CANDELS Team Meeting, Oral presentation, University of Massachusetts, Amherst MA, 2018
- CEERS Team Meeting, Oral presentation, Montgomery TX 2018
- Plumbing Star Formation Rates in the Era of JWST, Oral presentation, Texas A&M University, College Station TX, 2017
- Frank N. Bash Symposium 2017 - New Horizons in Astronomy, Poster presentation, University of Texas, Austin TX, 2017
- Chemical Evolution of the Universe, Poster presentation, Tarrytown NY, 2017
- CANDELS Team Meeting, Oral presentation, UC Santa Cruz, Santa Cruz CA, 2017
- AAS meeting #299, Poster presentation, Grapevine TX, 2017
- ZFOURGE Collaboration meeting, Oral presentation, Montgomery TX 2016
- ZFOURGE Collaboration meeting, Oral presentation, Montgomery TX 2015
- AAS meeting #223, Poster presentation, Washington DC, 2014
- Texas Section APS meeting, Poster presentation, University of Texas at Brownsville, Brownsville TX, 2013
- Frank N. Bash Symposium, Poster presentation, University of Texas, Austin TX, 2013

## HONORS AND AWARDS

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- 2019 Named a NASA FINESST Future Investigator, NASA
- 2018 Hagler Institute for Advanced Study HEEP Graduate Fellowship, Texas A&M University
- 2015 Diversity Fellowship, Texas A&M University
- 2014 Excellence in Physics Award, Southwestern University
- 2013 Feagin Scholarship, for excellence in physics, Southwestern University
- 2013 Physics Club President, Southwestern University
- 2013 Best undergraduate poster presentation, Texas Section APS meeting
- 2012,2013,2014 Recipient of the King Creativity Grant, Southwestern University

## RESEARCH EXPERIENCE

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- 2015–present On the Evolution of Stellar Populations of Quiescent Galaxies at  $1.0 < z < 1.8$  from deep *Hubble Space Telescope* Grism Data, Using G102 data from Hubble, constrained the metallicity and age of massive quiescent galaxies in a redshift range of  $1.0 < z < 1.8$  using forward modeling and Bayesian statistics proving the viability of grism data constrain stellar population parameters.
- 2014 Spectrograph Project for King Creativity Award, Designed and constructed a small spectrograph to be used with the research telescope at Southwestern University.
- 2013 Capstone at Southwestern University, Observed 4 AGN in B and V, reduced data and analyzed light curves, contributed to Vazquez et al., 2015.
- 2013 REU program at LSU, Created an X-ray catalog of serendipitous sources found in XMM data from the Galactic Bulge Survey regions, classified objects within catalog.

## SKILLS

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- 2018 Summer School in Informatics for Astronomers I: One week course at Penn State designed as an overview of informatics.
- 2017 Summer School in Statistics for Astronomers XIII: One week course at Penn State designed as an overview of modern statistical practices and programs in reference to astronomy.
- Programming Experience: Python, R, IDL, C++
- Experience with High Performance Computing Clusters