Vicente Estrada-Carpenter
Diversity Fellow

Graduate Student
Department of Physics and Astronomy
Texas A&M University, College Station
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RESEARCH INTERESTS

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

EDUCATION

PhD Astronomy 2015-2021
Texas A&M University
Thesis advisor: Casey Papovich

No degree sought 2014-2015
Texas State University
Attended while my wife finished her Masters program

Bachelors of Science in Physics 2011-2014
Southwestern University
Magna Cum Laude
Academic/Research advisor: Mark Bottorff

Associates of Science in Physics 2009-2011
Austin Community College

PRESENTATIONS

- 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

- 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

- 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

- 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