

Andrea Jessica A. Carrillo

Email: andreiac@astro.as.utexas.edu

Website: andreiacarrillo.com

EDUCATION

University of Texas at Austin, Texas

Ph.D. Astrophysics (present)

University of Michigan, Ann Arbor, Michigan

B.S. Astronomy and Astrophysics, Interdisciplinary Physics (2016)

AWARDS AND DISTINCTIONS

Astronomy and Astrophysics, Highest Honors

April 29, 2016

For having a GPA of 3.5 or higher and having submitted my thesis to a research journal before graduation

Department of Astronomy Award for Outreach Excellence

April 29, 2016

In recognition of outreach involvement and leadership in the Student Astronomical Society and the Department of Astronomy

University Honors

Fall 2012 and Fall 2014

Given to students who have earned a GPA of 3.5 or higher during the term

William J. Branstrom Freshman Prize Awardee

March 17, 2013

Given to students who are part of the top 5% of their college during the first term Honors Convocation, University of Michigan—Ann Arbor

RESEARCH EXPERIENCE

Department of Astronomy, University of Texas at Austin, present

Research Advisor: Shardha Jogee

Studying the resolved stellar populations of the bulge, bar, and disk of nearby galaxies and their associated assembly histories using the VENGA IFU survey, multiple full-spectrum fitting codes and stellar population models.

Department of Astronomy, University of Michigan

January 2013 – May 2016

Research Advisor: Eric F. Bell

Development of research skills using data from different images and catalogs (GHOSTS-HST, VISTA, SDSS, VIMOS-VLT) for reduction, photometry and analysis using various software and packages (IDL, IRAF, DS9, SExtractor, SWarp). The culmination of which is a paper on characterizing a dwarf galaxy in the vicinity of M83 using GHOSTS and VIMOS data

Research Advisor: Norman Marigza

Part of the department's Solar Observation Program (SOP) that kept track of solar activities through sunspot cataloging. RTU is the only university in the Philippines offering a degree in Astronomy.

PUBLICATIONS

***Characterizing dw1335-29, a Recently Discovered
Dwarf Satellite of M83***

November 2017

Authors: Andreia Carrillo, Eric F. Bell, Jeremy Bailin, Antonela Monachesi, Roelof S. de Jong, Benjamin Harmsen, and Colin Slater
MNRAS, 465, 5026

Aiming High: Astronomy Undergraduate Education at 6,800 Feet

Autumn 2015

Mercury Vol. 44 No. 4, p. 25

A feature article about Astronomy 461: Ground-based Observatories. It is a month-long immersion class in Kitt Peak, Arizona where students get to take their own data with the MDM Telescopes and present their findings at the class' culmination.

POSTERS AND PRESENTATIONS

***A pilot study on the stellar populations and assembly history
of the bar, bulge and outer disk of nearby spirals with VENGA***

October 24-25, 2017

Authors: Andreia Carrillo, Shardha Jogee, Kyle Kaplan, Tim Weinzirl, Guillermo Blanc, Rongxin Luo, Mimi Song
Frank N. Bash Symposium
Austin, Texas USA

***A pilot study on the stellar populations and assembly history
of the bar, bulge and outer disk of nearby spirals with VENGA***

June 4-8, 2017

Authors: Andreia Carrillo, Shardha Jogee, Kyle Kaplan, Tim Weinzirl, Guillermo Blanc, Rongxin Luo, Mimi Song
230th AAS Meeting, June 4-8, 2017
Austin, Texas USA

***Characterizing dw1335-29, a Recently Discovered
Dwarf Satellite of M83***

January 4-8, 2016

Authors: Andreia Carrillo, Eric F. Bell, Jeremy Bailin, Antonela Monachesi, Colin Slater
227th AAS Meeting
Kissimmee, Florida USA

Composition, Radial Velocity, and Imaging of Supernova Remnants

May 29, 2015

Authors: Andreia Carrillo and Katherine Murray
Ground-based Observatories Class Poster Presentation
Kitt Peak, Arizona USA

GHOSTS II: A New Dwarf of M83

April 17, 2015

Authors: Andreia Carrillo and Eric Bell Astronomy
Undergraduate Poster Session 2015
Ann Arbor, Michigan USA

SERVICE, TEACHING, AND OUTREACH

Teaching Assistant: AST 307, Introductory Astronomy

Fall 2017

Department of Astronomy, University of Texas
Introductory Astronomy class for Science Majors

Graduate Student Mentor: TAURUS Program

Summer 2017

Department of Astronomy, University of Texas
TAURUS program is a summer internship aimed at providing astronomy research opportunities to under-represented students

Peer Instructor for Astronomy Structured Study Group

Fall 2015

Department of Astronomy, University of Michigan
Supplementary discussion section catered to the 100-level astronomy students for Honors credit.

Organizer of Astronomy Undergraduate Poster Session

Winter 2015/16

Department of Astronomy, University of Michigan
Annual poster session showcasing the undergraduate students' researches;
Successfully increased the number of participants from 12 from the previous year to 18 in 2015

Student Astronomical Society (SAS)

Treasurer

2015 – 2016

Vice President

2014 – 2015

The organization holds events to foster interest in astronomy. These include planetarium shows, observing nights, computing workshops, free astronomy classes tutoring and collaborations with other student groups for on and off campus demos.

Starburst 6 (Outreach), Camarines Sur Polytechnic Colleges, Philippines: Speaker/Volunteer

June 25 – 27, 2013

Starburst is a program by RTU where stargazing and astronomy seminars are conducted in other schools. My talk was about the SOP.
