

Andreia Jessica A. Carrillo

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EDUCATION

Graduate

Ph.D. Astrophysics (present)
University of Texas, Austin, Texas

Undergraduate

B.S. Astronomy and Astrophysics, Interdisciplinary Physics (2016)
University of Michigan, Ann Arbor, Michigan

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 AND TEACHING EXPERIENCE

Peer Instructor for Astronomy Structured Study Group: September 2015 – December 2015

Department of Astronomy, University of Michigan

Supplementary discussion section catered to the 100-level astronomy students who want to study Astronomy topics more in-depth. Upon successful completion, students get an Honors notation in their Astronomy course and teaching the course developed my communication skills, organization, and time-management.

Conference Participant: June 1 – June 4, 2015

“The Local Group Astrostatistics Conference”

Michigan Institute for Research in Astrophysics, University of Michigan

Conference on bridging observations and simulations attended mostly by the stellar populations and galaxies community

Organizer of Astronomy Undergraduate Poster Session 2015 – April 17, 2015

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 Researcher: January 2013 – present

Research Advisor: Eric F. Bell

Department of Astronomy, University of Michigan

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 (paper in preparation)

Intern: May 2013 – July 2013

Research Advisor: Norman Marigza

Department of Earth, Space and Sciences, Rizal Technological University (RTU), Philippines

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.

Speaker/Volunteer: June 25 – 27, 2013

Starburst 6 (Outreach), Camarines Sur Polytechnic Colleges, Philippines

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

PUBLICATIONS

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

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

MNRAS, 465, 5026 (2017)

Aiming High: Astronomy Undergraduate Education at 6,800 Feet

Mercury Vol. 44 No. 4, Autumn 2015, 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

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

Authors: Andreia Carrillo, Eric F. Bell, Jeremy Bailin, Antonela Monachesi, Colin Slater
Presented at the 227th AAS Meeting, January 4-8, 2016
Kissimmee, Florida USA

Composition, Radial Velocity, and Imaging of Supernova Remnants

Authors: Andreia Carrillo and Katherine Murray
Ground-based Observatories Class Poster Presentation, May 29, 2015
Kitt Peak, Arizona USA

GHOSTS II: A New Dwarf of M83

Authors: Andreia Carrillo and Eric Bell
Astronomy Undergraduate Poster Session 2015, April 17, 2015
Ann Arbor, Michigan USA

AFFILIATIONS

Student Astronomical Society (SAS) Treasurer: September 2015—present and Vice President: September 2014 – May 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.

Stellar Halo Group: September 2013 - present

Department of Astronomy University of Michigan

The Stellar Halo Group meets biweekly and is composed of professors, postdocs, graduate students and undergraduates. The members talk about their researches and interesting recent findings in the field.

National Society of Collegiate Scholars: January 2013- present

A national honor students organization whose membership is offered by invitation to students with a GPA of 3.4 and above.
