

# 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

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## 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

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## 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.

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**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.

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**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 227<sup>th</sup> 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

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**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.

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