

Silvana Delgado Andrade

sdelgadoandr@tamu.edu

Department of Physics & Astronomy

Tel: (by request)

Texas A&M University

<https://silvanadelgado.carrd.co/>

College Station, TX 77843-4242

RESEARCH INTERESTS

Galaxy Evolution – Galaxy Dynamics – Supermassive Black Holes – Early-Type Galaxies – Galaxy Kinematics – Dynamical Modeling – Dark Matter Halos

EDUCATION

Ph.D. in Astronomy

(expected) May 2025

M.S. in Astronomy

August 2022

Texas A&M University

College Station, TX 77843

B.S. in Physics and Astronomy

May 2019

University of Massachusetts Amherst (UMass)

Amherst, MA 01003

APPOINTMENTS

Graduate Research Assistant (UNDER DR. J. WALSH)

Texas A&M, 2019 – present

Graduate Teaching Assistant: Lab Instructor

Texas A&M, 2019 – 2022

Undergraduate Research Assistant (UNDER DR. M. YUN)

UMass, 2017 – 2019

Undergraduate Teaching Assistant: Lab Instructor

UMass, 2017-2019

NSF-Funded REU Research Assistant (UNDER DR. L. STRIGARI)

Texas A&M, Summer 2018

Research Student (UNDER DR. K. WARD-DUONG)

Amherst College, Spring 2018

Five College Astronomy Dept. Internship (UNDER DR. M. YUN)

UMass, Summer 2017

HONORS & AWARDS

SACNAS NDiSTEM Travel Scholarship

2022

GMT Community Science Meeting Travel Grant

2022

NASA Texas Space Grant Consortium Fellowship

2022

College of Natural Sciences Student Leadership Award

2018 – 2019

NSF REU Research Grant

2018

Nova Biomedical Scholarship

2015 – 2019

PUBLICATIONS

Primary Contributor

The MASSIVE Survey. XVII. A Triaxial Orbit-based Determination of the Black Hole Mass

and *Intrinsic Shape of Elliptical Galaxy NGC 2693*([arXiv:2009.10092](#))

Jacob D. Pilawa, Christopher M. Liepold, **Silvana Delgado Andrade**, Jonelle L. Walsh, Chung-Pei. Ma, Matthew E. Quenneville, Jenny E. Greene, and John P. Blakeslee

CONFERENCES & PRESENTATIONS

Science Presentations

- Poster:** GMT Community Science Meeting: Black Holes at All Scales (SEDONA, AZ) August 2022
A Comparison of Stellar Dynamical Modeling Techniques using MASSIVE Galaxies
- Talk:** Texas A&M University Astronomy Symposium (COLLEGE STATION, TX) August 2022
Stellar Dynamical Modeling of Fast-Rotating ETGs in the MASSIVE Survey
- Talk:** Master's Defense & Prelim Talk (COLLEGE STATION, TX) April 2022
Stellar Dynamical Models and Supermassive Black Holes of MASSIVE Galaxies
- Talk:** Texas A&M University Astronomy Symposium (COLLEGE STATION, TX) August 2021
Dynamical Models of MASSIVE Galaxies
- Talk:** Texas A&M University Astronomy Symposium (COLLEGE STATION, TX) August 2020
Stellar Dynamical Modeling of the MASSIVE Galaxy NGC2693
- Talk:** Texas A&M University Astronomy Symposium (COLLEGE STATION, TX) August 2019
Submillimeter Galaxies: Multi-Component Systems
- Talk:** Five College Astronomy Department Senior Thesis Presentations (AMHERST, MA) May 2019
Submillimeter Galaxies: Multi-Component Systems and Environments
- Poster:** Massachusetts Undergraduate Research Symposium (AMHERST, MA) April 2019
Submillimeter Galaxies: Multi-Component Systems and Counterparts
- Poster:** Conference for Undergraduate Women in Physics (AMHERST, MA) January 2019
Selection of Milky Way Analogs Using the Dark Energy Survey
- Poster:** 233rd AAS Meeting (SEATTLE, WA) January 2019
Selection of Milky Way Analogs Using the Dark Energy Survey
- Poster:** Texas A&M REU Poster Presentation (COLLEGE STATION, TX) August 2018
Selection of Milky Way Analogs Using the Dark Energy Survey
- Poster:** Five College Astronomy Department Senior Thesis Presentations (AMHERST, MA) April 2018
Exploring Variability in Young Stellar Objects Through H-alpha Emission

Science Communication & Outreach

- Talk:** Astronomy on Tap BCS August 2022
The Gravity of Our Universe
- Talk:** Society for the Underrepresented in Physics & Astronomy July 2022
Femininity in Academia (Part 2)
- Talk:** Warrior Scholar Project (TEXAS A&M) June 2021

Numerical Simulations Research Project

Talk: Skype a Scientist (VIRTUAL, MINSHEW ELEMENTARY SCHOOL) January 2022
Skype a Scientist: Astronomy Edition!

Talk: Society for the Underrepresented in Physics & Astronomy November 2021
Femininity in Academia

Talk: Astronomy on Tap BCS November 2021
An Astrology Talk: I'm a Pisces, What About You?

Talk: Warrior Scholar Project (VIRTUAL, TEXAS A&M) June 2021
Numerical Simulations Research Project

Talk: Society for the Underrepresented in Physics & Astronomy January 2021
Mental Health During the Pandemic

Talk: Astronomy on Tap BCS (VIRTUAL) January 2021
Fantastic Galaxies and Where to Find Them

Talk: Society for Physics Students (VIRTUAL) November 2020
Implicit Bias in Science

Talk: Warrior Scholar Project (VIRTUAL, COLUMBIA UNIVERSITY) July 2020
Numerical Simulations Research Project

Talk: Warrior Scholar Project (VIRTUAL, TEXAS A&M) June 2020
Numerical Simulations Research Project

Talk: Astronomy on Tap BCS (VIRTUAL) May 2020
Gravity

OBSERVING EXPERIENCE

McDonald Observatory (TX, USA) – HARLAN J. SMITH 1.7 M TELESCOPE 9 nights
Exoplanet Spectroscopic Imager (ETSI)

W. M. Keck Observatory (Remote) (CA, USA) – KECK II, 10 M TELESCOPE 2 half-nights
Keck Cosmic Webb Instrument IFS

McDonald Observatory (TX, USA) – WIDE-FIELD IMAGING TELESCOPE, 0.25 M 3 nights

Gemini Observatory (Remote) (MA, USA) – GEMINI SOUTH TELESCOPE 1 night
Gemini Planet Imager Instrument

Kitt Peak National Observatory (AZ, USA) – WYIN 0.9 M TELESCOPE 4 nights
Half Degree Imager Instrument

TEACHING, SERVICE, & OUTREACH

Active Appointments

Event Coordinator: Mentoring & Advising Graduates in an Inclusive Community	2022 – Present
Organizing Committee: Gateway to Graduate School at TAMU	2022 – Present
Primary Organizer: Astronomy on Tap Bryan/College Station	2021 – Present
Co-Coordinator: Society for the Underrepresented in Physics and Astronomy	2020 – Present

Teaching

Research Project Leader: Warrior Scholar Project STEM Week	Summer 2020, 2021, 2022
Teaching Assistant: Astrophysical Research Methods (TEXAS A&M)	Spring & Fall 2020
Lab Instructor: Overview of Modern Astronomy (TEXAS A&M)	Fall 2019, 2021, Spring 2022
Undergrad. Teaching Assistant: Introduction to Astronomy (UMASS)	2017 – 2019
Undergrad. Tutor: Astronomy Help Desk (UMASS)	2017 – 2019

Mentoring

Primary mentor for FRANKLIN WANG <i>Mentoring and Advising Graduates in an Inclusive Community</i>	2022 – 2023
Research mentor for SHRAVAN MENON, ENRIQUE GONZALEZ <i>AggieStarr Program: Fiber Optic Characterization for Unprecedented Sky Subtraction</i>	Summer 2022
Primary mentor for MAEVE CURLISS <i>Mentoring and Advising Graduates in an Inclusive Community</i>	2022
Primary mentor for JOANNE TAN <i>Mentoring and Advising Graduates in an Inclusive Community</i>	2020 – 2021

Volunteering

Astronomy Volunteer for the Texas Science Olympiad	April 2022
Astronomy Volunteer for the Texas A&M Physics Festival	April 2021, 2022
Speaker for Skype A Scientist	January 2022
Mcee/Speaker for Astronomy on Tap BCS	2020 – Present
Volunteer & Panelist for the Conference for Undergraduate Women in Science	January 2020
Volunteer for the Texas A&M Star Parties	Summer 2018

PROGRAMMING

Fluent in: Python, L^AT_EX, R

Experience with: Matlab, HTML, Git, Vim, Linux