

EDUCATION

Texas A&M University

College Station, TX

*Ph.D. Astronomy**Expected May 2027*

- Advisor: Dr. Justin Spilker
- Research interest(s): Higher-redshift galaxy evolution, radio interferometry

*M.S. Astronomy**May 2025*

- GPA: 3.92/4.00
- Project: Quenching via Tidal Removal of Cold Gas in Intermediate-z Massive Post-starburst Galaxies

Michigan State University

East Lansing, MI

*B.S. Astrophysics**May 2022*

- GPA: 3.92/4.00
- Majors: Astrophysics, Physics

RESEARCH POSITIONS/EXPERIENCE

Graduate Student (Advisor: Dr. Justin Spilker)

August 2022 – Present

*Texas A&M University**College Station, TX*

NSF REU Intern (Advisor: Dr. Juergen Ott)

May 2021 – October 2021

*National Radio Astronomy Observatory**Socorro, NM (Remote)*

Student Research Assistant (Advisor: Dr. Kaitlin Cook)

June 2020 – May 2022

*National Superconducting Cyclotron Laboratory**East Lansing, MI*

Student Research Assistant (Advisor: Dr. Laura Chomiuk)

August 2021 – May 2022

*Michigan State University Observatory Research Program**East Lansing, MI*

Research Assistant (Advisor: Dr. Daniel Rathbun)

April 2019 – August 2019

*Bionics and Vision Lab, Henry Ford Health System**Detroit, MI*

HONORS AND AWARDS

NRAO Student Observing Support Program Fellowship (\$40k)

November 2024

NSF Graduate Research Fellowship Program, **Honorable Mention**

April 2024

Texas Space Grant Consortium Graduate Fellowship (\$5k)

December 2023

NSF Research Experiences for Undergraduates (~\$7k)

June 2021

MSU College of Natural Science Undergraduate Research Support Scholarship (\$1k)

January 2021

PUBLICATIONS

First-Author

1. **D’Onofrio, V.**, et al. (2025). “Timing the Onset of Radio-Mode Feedback with $z \sim 0.7$ Post-Starbursts.” In preparation.
2. **D’Onofrio, V.**, et al. (2025). “Quenching Through Tidal Gas Removal: Molecular Gas and Star Formation in Tidal Tails of $z \sim 0.7$ Post-Starburst Galaxies.” Submitted to ApJ.

Co-Author

1. Zhu, P., et al. (**incl. D’Onofrio, V.**) (2025). “SQuIGGLE: Observational Evidence of Low Ongoing Star Formation Rates in Gas-rich Post-starburst Galaxies.” ApJ, 981, 60.
2. Verrico, M., et al. (**incl. D’Onofrio, V.**) (2023). “Merger Signatures are Common, but not Universal, in Massive, Recently Quenched Galaxies at $z \sim 0.7$.” ApJ, 949, 5.

TALKS

Invited

1. **D’Onofrio, V.**, et al. “Tidal Removal of Cold Molecular Gas in $z \sim 0.7$ Post-Starburst Galaxies: A Qualitatively New Quenching Mechanism,” Texas A&M Nuclear-Astro Seminar, College Station, TX, May 24, 2024.

Contributed

1. **D’Onofrio, V.**, et al. ”Probing Star Formation Suppression with Higher- z Post-Starbursts,” Texas A&M Astrosymposium, College Station, TX, August 15, 2024.
2. **D’Onofrio, V.**, et al. “Tidal Removal of Cold Molecular Gas in $z \sim 0.7$ Post-Starburst Galaxies: A Qualitatively New Quenching Mechanism,” McMaster University Star Formation Workshop, Hamilton, ON, August 14, 2024.
3. **D’Onofrio, V.**, et al. “Tidal Removal of Cold Molecular Gas in $z \sim 0.7$ Post-Starburst Galaxies: A Qualitatively New Quenching Mechanism,” STScI Spring Symposium 2024, Baltimore, MD, April 19, 2024.
4. **D’Onofrio, V.**, et al. “Quenching in Intermediate-Redshift Massive Post-Starburst Galaxies,” Texas A&M Astrosymposium, College Station, TX, August 17, 2023.
5. **D’Onofrio, V.**, et al. “Molecular Gas Toward Sagittarius B2: The Galactic Center’s Complex Giant Molecular Cloud,” Texas A&M Astrosymposium, College Station, TX, August 18, 2022.
6. **D’Onofrio, V.**, et al. “Characterizing Molecular Gas Towards Sagittarius B2: The Galactic Center’s Complex Giant Molecular Cloud,” 2021 NRAO/GBO Summer Student Symposium, virtual participation, August 13, 2021.

Public

1. **D’Onofrio, V.** “Why You Shouldn’t Go to Mars,” Astronomy on Tap, Bryan, TX, August 23, 2023.

Other

1. **D’Onofrio, V.**, et al. “Star Formation Quenching in Intermediate-Redshift Massive Post-Starburst Galaxies,” Texas A&M Exgal Group Meeting, College Station, TX, April 11, 2024.
2. **D’Onofrio, V.**, et al. “Molecular Gas Toward Sagittarius B2: The Galactic Center’s Complex Giant Molecular Cloud,” MSU Society of Physics Students Coffee Breaks, East Lansing, MI, November 11, 2021.

AWARDED PROPOSALS

Principal Investigator

1. **ALMA Cycle 11** - 2024.1.01252.S (9.8 hours): Diffuse or Dense: Probing the Physical State of Massive Gas Reservoirs in $z \sim 0.7$ Quenched Galaxies (PI: **V. D’Onofrio**)
2. **VLA Semester 24B** - VLA/24B-451 (21.0 hours): Measuring Jet Ages to Test Radio AGN Feedback with Massive $z \sim 0.7$ Post-Starbursts (PI: **V. D’Onofrio**)

Co-Investigator

1. **ALMA Cycle 11** - 2024.1.00216.S (13.1 hours): Timing the Onset of Unexpected Dust Destruction using High-Redshift Post-Starburst Galaxies (PI: J. Spilker)
2. **ALMA Cycle 11 w/ JWST GO** - 2024.1.01064.S/JWST-GO-06719 (15.5/4.7 hours): Mapping Cold Gas and Star Formation in Gas Rich Post-Starburst Galaxies Near Cosmic Noon (PI: D. Setton)
3. **ALMA Cycle 10** - 2023.1.00948.S (13.1 hours): Timing the Onset of Unexpected Dust Destruction using High-Redshift Post-Starburst Galaxies (PI: J. Spilker)
4. **ALMA Cycle 10** - 2023.1.01012.S (12.1 hours): Does Molecular Gas Survive Quenching Near Cosmic Noon? (PI: D. Setton)

LEADERSHIP & OUTREACH

Coordinator <i>Mentoring and Advising Graduates in an Inclusive Community (MAGIC)</i>	February 2025 – Present <i>Texas A&M University</i>
Co-leader <i>Graduates Learning Astro and Soft Skills (GLASS)</i>	October 2023 – February 2025 <i>Texas A&M University</i>
In the News Presenter <i>Astronomy on Tap</i>	October 2023 – Present <i>Bryan, TX</i>
Mentor <i>Mentoring and Advising Graduates in an Inclusive Community (MAGIC)</i>	August 2023 – Present <i>Texas A&M University</i>
Trivia Creator <i>Astronomy on Tap</i>	May 2023 – July 2024 <i>Bryan, TX</i>
Astronomer/Physicist <i>Adopt-a-Physicist</i>	October 2022 – Present <i>Texas A&M University</i>

TEACHING EXPERIENCE

Teaching Assistant, Lab Instructor <i>ASTR 111: Overview of Modern Astronomy</i>	January 2024 – May 2024 <i>Texas A&M University</i>
Teaching Assistant <i>ASTR 320: Astrophysical Research Methods</i>	August 2023 – December 2023 <i>Texas A&M University</i>
Teaching Assistant, Lab Instructor <i>ASTR 111: Overview of Modern Astronomy</i>	January 2023 – May 2023 <i>Texas A&M University</i>
Teaching Assistant <i>ASTR 401: Stars and Extrasolar Planets</i>	August 2022 – December 2022 <i>Texas A&M University</i>

OBSERVATION EXPERIENCE

MSU Observatory 0.6-meter Telescope (~30 hrs)

PROFESSIONAL SOCIETY MEMBERSHIPS

American Astronomical Society	October 2021 - Present
American Physical Society	September 2021 - May 2022

SKILLS

Programming: Python, C++, Swift/SwiftUI, Xcode, LaTeX, Git, Ruby, Java, MATLAB, Mathematica
Astronomy/Physics: CARTA, CASA, DS9, ROOT, AstroImageJ, Maxim DL, ACE SmartDome, grizli
Engineering: 3D printing, AutoCAD, Cura, Arduino