

Savannah Gramze

Mailing Address

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Education

University of Florida, Gainesville, Florida— *Astronomy Graduate, PhD Program*

August 2021- PRESENT

Current graduate student studying at the University of Florida. GPA of 4.0.

University of Arizona, Tucson, Arizona— *Bachelor of Science in Astronomy*

August 2017 - May 2021

Graduated with Magna Cum Laude and Honors. Astronomy Major, Physics and Mathematics Minor. Achieved cumulative GPA of 3.8, Major Specific GPA of 3.8.

Work Experience

Research Assistantship — *University of Florida*

May 2022 - PRESENT

Continuation of summer work focused on the kinematics of a molecular cloud in the Milky Way's Galactic Bar under

Teaching Assistantship — *University of Florida*

August 2021 - May 2022

Continuation of summer work focused on the kinematics of a molecular cloud in the Milky Way's Galactic Bar under

Honors Thesis — *University of Arizona*

August 2020 - May 2021

Continuation of summer work focused on the kinematics of a molecular cloud in the Milky Way's Galactic Bar under Dr. Yancy Shirley, Dr. Jurgen Ott, Dr. David Meier, and Dr. Brian Svoboda. Skills in combining total power and interferometric data.

Summer Internship 2020— *National Radio Astronomy Observatory*

May 2020 - August 2020

As part of the NRAO's summer REU program, worked online on a research project involving the collision of two molecular clouds in the Milky Way's Galactic Bar under Dr. Jurgen Ott, Dr. David Meier, Dr. Brian Svoboda, and Dr. Yancy Shirley.

Space Grant Internship — Lunar Planetary Lab, University of Arizona

August 2019 - May 2020

Research project under Dr. Mihailo Martinovic working to model quasi-thermal noise spectra of the electron plasma frequency taken by the WIND spacecraft. Resulted in a co-authored paper.

Summer Internship 2019 — National Radio Astronomy Observatory

May 2019 - August 2019

As part of NRAO's summer REU program, worked in Socorro, New Mexico on a research project on two molecular clouds in the Milky Way's Galactic Bar under Dr. Jurgen Ott, Dr. David Meier, Dr. Adam Ginsburg, and Dr. Brian Svoboda. Participated in the program's Greenbank Observatory Imaging Bootcamp. Gave tours of the Very Large Array to the public. Presented research to the Array Operations Center at the end of the summer.

Publications

Evidence of a Cloud-Cloud Collision from Overshooting Gas in the Galactic Center. **Gramze, S.**; Ginsburg, A.; et al. (Accepted to ApJ 2023)

Signatures of past and present AGN feedback modes: A Green Bean Galaxy with 150 kpc jet-induced remnant radio emission. Sanderson, K.; Kapinska, A.; Prescott, M.; ...; **Gramze, S.**; et al. (Submitted to ApJ 2023)

Point Symmetric Clouds Around the CMZ, **Gramze, S.**; Ott, J.; Meier, D.; Svoboda, B. Conference Proceedings, American Astronomical Society meeting #235, id. 310.05. Bulletin of the American Astronomical Society, Vol. 52, No. 1

Solar Wind Electron Parameters Determination on Wind Spacecraft Using Quasi-Thermal Noise Spectroscopy, Martinović, Mihailo M.; Klein, Kristopher G.; **Gramze, Savannah R.**; et al. Journal of Geophysical Research: Space Physics, Volume 125, Issue 8, (2020)

Spectroscopic Classification of AT2016cvv as a normal Type Ia Supernova, Leonard, D. C.; Sheehan, P.; McCarthy, D.; ...; **Gramze, S.**; et al. The Astronomer's Telegram. (2016)

Summer report of research done at NRAO during summer 2020 published on the NRAO wiki.
www.nrao.edu/students/2020/Reports/GramzeSavannah.pdf

Awards

Graduate Student Teaching Award

Nominated by faculty at the University of Florida's Astronomy Department for exceptional achievement in teaching as a graduate teaching assistant in Fall 2021 and Spring 2022. (\$500)

Galileo Circle Scholar

Nominated by Steward Observatory and University of Arizona Astronomy Department faculty for excellence in research and academics. (\$1,000)

NASA Space Grant

Received to conduct research at the Lunar Planetary Lab under Dr. Martinovic. (\$2000)

NSF REU Funding 2020

Received to conduct research for the National Radio Astronomical Observatory online for the summer of 2020 student assistantship program, funded by the NSF and AUI in the REU program. Paid a stipend of \$695 weekly for 11 weeks, for a total of \$7,645.

NSF REU Funding 2019

Received to conduct research at the National Radio Astronomical Observatory in Socorro, New Mexico for the summer of 2019 student assistantship program, funded by the NSF and AUI in the REU program. Paid a stipend of \$675 weekly for 12 weeks, for a total of \$8,100.

Dean's List

Received for a GPA over 3.5 for the semesters of Fall 2017 (with distinction), Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020.

Wildcat Excellence Scholarship

Received excellent grades in high school, earning the best academic scholarship at the University of Arizona.

Presentations

JWST Data Products Workshop November 2023 — *Baltimore, Maryland*

Presented a poster on astrometric alignment of image frames of JWST data at the Space Telescope Science Institute.

Galactic Center Workshop April 2023 — *Granada, Spain*

Presented an updated poster on research at the Galactic Center Workshop, "Evidence of a Cloud-Cloud Collision from Gas Overshooting the Galactic Center." Spent the week learning about the Galactic Center from experts in the field.

Graduate Student Symposium October 2022 — *Gainesville, Florida*

Presented research to the University of Florida Astronomy Department graduate students, faculty and researchers.

ESTGII June 2022 — *Göteborg, Sweden*

Presented a poster on research at the 2022 meeting for From Stars to Galaxies II, "Evidence of a Cloud-Cloud Collision from Gas Overshooting the Galactic Center." Spent the week of the meeting introducing myself to researchers in the field.

American Astronomical Society Meeting Poster Presentation January 2021 — *Virtual*

Presented a poster on the research done for NRAO in 2020 at the winter AAS meeting, "Colliding Clouds in the Milky Way's Bar." Spent the week of the meeting attending talks by professional astronomers.

Presentation of Summer Research August 2020 — *Virtual*

Presented research on, "Colliding Clouds in the Milky Way's Central Bar" as a virtual presentation for faculty and summer students of NRAO and the Greenbank Observatory over Zoom.

American Astronomical Society Meeting Poster Presentation January 2020 — Honolulu, Hawaii

Presented a poster on the research done for NRAO in 2019 at the winter AAS meeting, “Point Symmetric Clouds Around the CMZ.” Spent the week of the meeting attending talks by professional astronomers.

Astronomy Club Internal Symposium May 2020 — University of Arizona

Presented summer 2019 research, “Point Symmetric Clouds Around the CMZ,” to fellow students and astronomy club members.

Presentation of Summer Research August 2019 — National Radio Astronomical Observatory

Presented research, “Point Symmetric Clouds Around the CMZ” for the Socorro cohort of NRAO faculty and summer students.

Outreach

VLA Tour Guide — National Radio Astronomical Observatory

Worked at the Very Large Array giving tours to the public as part of summer internship in Summer 2019.

Astronomy Club Officer — University of Arizona

Astronomy Club’s Secretary for Spring and Fall 2020. Gained skills in leadership and science communication. Facilitated weekly news about current events in astronomy.

Astronomy Club Member — University of Arizona

Astronomy Club member for Fall 2017 – Spring 2021. Participated in outreach events such as Star Parties to spread the love of astronomy to elementary age children. Includes experience with setting up the club’s telescopes, teaching kids about astronomy, and interacting with the community.

Game Development Club Member — University of Arizona

Participated with a club focused on programming, teamwork, and artwork skills. Member 2017 – 2019.