Savannah Gramze, M.Sc.

savannahgramze@ufl.edu SpacialTree
https://spacialtree.github.io/

Education

2023 – now **Ph.D., University of Florida** Astronomy.
Thesis: *Galactic Center Structure and Dynamics.*

2021 – 2023 **M.Sc. Astronomy, University of Florida**.
Thesis: *Evidence of a Cloud-Cloud Collision from Overshooting Gas in the Galactic Center.*

2017 – 2021 **B.Sc. Astronomy, University of Arizona** cum laude.
Thesis: *Colliding Clouds in the Milky Way's Central Bar.*

Employment

2022 – now **Research Assistant.** Astronomy Department, College of Liberal Arts and Sciences, University of Florida.

2021 – 2022 **Teaching Assistant.** Astronomy Department, College of Liberal Arts and Sciences, University of Florida.

Awards and Achievements (Total: $19,245)

2022 **Graduate Student Teaching Award** *$500,* University of Florida.

2020 **Galileo Circle Scholar** *$1,000,* University of Arizona.

NSF Research Experiences for Undergraduates *$7,645,*
National Radio Astronomical Observatory, virtual.

2019 **NASA Space Grant** *$2000,* University of Arizona.

NSF Research Experiences for Undergraduates *$8,100,*
National Radio Astronomical Observatory, Socorro, New Mexico.

2017-2021 **Dean's List**, University of Arizona.

Research Publications

5 Adam Ginsburg, John Bally, Ashley T. Barnes, Cara Battersby, Nazar Budaiev, Natalie O. Butterfield, Paola Caselli, Laura Colzi, Katarzyna M. Dutkowska, Pablo García, **Savannah Gramze**, Jonathan D. Henshaw, Yue Hu, Desmond Jeff, Izaskun Jiménez-Serra, Jens Kauffmann, Ralf S. Klessen, Emily M. Levesque, Steven N. Longmore, Xing Lu, Elisabeth A. C. Mills, Mark R. Morris, Francisco Nogueras-Lara, Tomoharu Oka, Jaime E. Pineda, Thushara G. S. Pillai, Víctor M. Rivilla, Álvaro Sánchez-Monge, Miriam G. Santa-Maria, Howard A. Smith, Yoshiaki Sofue, Mattia C. Sormani, Grant R. Tremblay, Gijs Vermariën, Alexey Vikhlinin, Serena Viti, Dan Walker, Q. Daniel Wang, Fengwei Xu, and Qizhou Zhang. "A Broad Line-width, Compact, Millimeter-bright Molecular Emission Line Source near the Galactic Center". In: 968.1, L11 (June 2024), p. L11. DOI: 10.3847/2041-8213/ad47fa. arXiv: 2404.07808 [astro-ph.GA].

4 Andy Nilipour, Juergen Ott, David S. Meier, Brian Svoboda, Mattia C. Sormani, Adam Ginsburg, **Savannah R. Gramze**, Natalie O. Butterfield, and Ralf S. Klessen. "Turbulent Pressure Heats Gas and Suppresses Star Formation in Galactic Bar Molecular Clouds". In: 977.1, 37 (Dec. 2024), p. 37. DOI: 10.3847/1538-4357/ad8631. arXiv: 2410.09258 [astro-ph.GA].

3 Kelly N. Sanderson, Anna D. Kapińska, Moire K. M. Prescott, Audrey F. Dijeau, **Savannah R. Gramze**, Jacqueline Hernandez, and Katherine T. Kauma. "Signatures of Active Galactic Nucleus Feedback Modes: A Green Bean Galaxy with 150 kpc Jet-induced Radio Emission". In: 971.1, 20 (Aug. 2024), p. 20. DOI: 10.3847/1538-4357/ad50a8. arXiv: 2405.19558 [astro-ph.GA].

2 Adam Ginsburg, Ashley T. Barnes, Cara D. Battersby, Alyssa Bulatek, **Savannah Gramze**, Jonathan D. Henshaw, Desmond Jeff, Xing Lu, E. A. C. Mills, and Daniel L. Walker. "JWST Reveals Widespread CO Ice and Gas Absorption in the Galactic Center Cloud Go.253+0.016". In: 959.1, 36 (Dec. 2023), p. 36. DOI: 10.3847/1538-4357/acfc34. arXiv: 2308.16050 [astro-ph.GA].

1 **Savannah R. Gramze**, Adam Ginsburg, David S. Meier, Juergen Ott, Yancy Shirley, Mattia C. Sormani, and Brian E. Svoboda. "Evidence of a Cloud–Cloud Collision from Overshooting Gas in the Galactic Center". In: 959.2, 93 (Dec. 2023), p. 93. DOI: 10.3847/1538-4357/ad01be. arXiv: 2309.16403 [astro-ph.GA].

0 Mihailo M. Martinović, Kristopher G. Klein, **Savannah R. Gramze**, Himanshu Jain, Milan Maksimović, Arnaud Zaslavsky, Chadi Salem, Ioannis Zouganelis, and Zoran Simić. "Solar Wind Electron Parameters Determination on Wind Spacecraft Using Quasi-Thermal Noise Spectroscopy". In: *Journal of Geophysical Research (Space Physics)* 125.8, e28113 (Aug. 2020), e28113. DOI: 10.1029/2020JA028113.

Teaching Experience

2021 – 2022 **Instructor.** AST 1022L Astronomy Laboratory, College of Liberal Arts and Sciences, University of Florida.

Skills

Data Reduction	Mathematics, data cleaning, statistics, data visualization, pattern recognition, problem solving, presentation
Coding	Java, Python, LaTeX, …
Web Dev	HTML, CSS
Misc.	Academic research, teaching, LaTeX typesetting and publishing.

Presentations

August 2024	**ACES Workshop** in Boston, Massachusetts
June 2024	**ACES Workshop** in Garching, Germany
November 2023	**JWST Data Products Workshop** in Baltimore, Maryland at the Space Telescope Science Institute
April 2023	**Galactic Center Workshop** in Granada, Spain
June 2022	**From Stars to Galaxies II** in Gothenburg, Sweden
January 2021	**237th AAS Meeting Poster** virtual
August 2020	**NRAO Student Talk** virtual
January 2020	**235th AAS Meeting Poster** in Honolulu, Hawaii
August 2019	**NRAO Student Talk** in Soccorro, New Mexico at the Array Operations Center

Training

July 2024	**CodeAstro Workshop** in Evanston, Illinois
November 2023	**2nd IAA-CSIC Severo Ochoa Advanced School on Star Formation** in Granada, Spain

References

Available on Request