

EDUCATION

University of Virginia	December 2022
– B.S. Astronomy-Physics (with high distinction) & Statistics	
– <i>Thesis</i> : Star Formation and Feedback in Low-metallicity Environments: From Molecular Clouds to Protostars	

EXPERIENCE

Research Assistant, Harvard-Smithsonian Center for Astrophysics	2023 –
<i>Advisor</i> : Prof. Alyssa Goodman	
Undergraduate Researcher, UVA	2019 – 2022
<i>Advisor</i> : Prof. Rémy Indebetouw	
NSF REU, Smithsonian Astrophysical Observatory	2022
<i>Advisor</i> : Prof. Alyssa Goodman	
Undergraduate Research Fellow, Chalmers Initiative on Cosmic Origins	2020 – 2021
<i>Advisors</i> : Prof. Jonathan Tan & Dr. Giuliana Cosentino	

AWARDS

NSF Graduate Research Fellowship	2023
Goldwater Scholarship	2022
Astronaut Scholarship	2022
Universities Space Research Association Distinguished Undergraduate Award	2022
D. Nelson Limber Award, UVA Dept. of Astronomy (<i>Outstanding 4th year undergraduate</i>)	2023
Vysotsky Prize, UVA Dept. of Astronomy (<i>Outstanding 3rd year undergraduate</i>)	2022
McCullough Scholarship, UVA Dept. of Astronomy (<i>Outstanding 2nd year undergraduate</i>)	2021
Echols Scholar, UVA	2018
College Science Scholar, UVA	2018

PUBLICATIONS

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- O'Neill, T. J.; Goodman, A. A.; Soler, J. D.; Han, J. J.; Zucker, C. *Mapping the Local Bubble's Magnetic Field in 3D*. 2023, available on Authorea preprint server (DOI: 10.22541/au.167303779.92162611).
 - 6. Hsu, C.; Tan, J. C.; Christie, D.; Cheng, Y.; O'Neill, T. J. *GMC Collisions As Triggers of Star Formation. VIII. The Core Mass Function*. 2023, MNRAS, 552, 700.
 - 5. O'Neill, T. J.; Indebetouw, R.; Sandstrom, K. M.; Bolatto, A. D.; Jameson, K. E.; Carlson, L. R.; Finn, M. K.; Meixner, M.; Sabbi, E.; Sewilo, M. *Sequential Star Formation in the Young SMC Region NGC 602: Insights from ALMA*. 2022, ApJ, 938, 82.
 - 4. O'Neill, T. J.; Indebetouw, R.; Bolatto, A. D.; Madden, S. C.; Wong, T. *Effects of CO-dark Gas on Measurements of Molecular Cloud Stability and the Size-Linewidth Relationship*. 2022, ApJ, 933, 179.
 - 3. Swift, J. J.; and forty other authors including O'Neill, T. J. *The Renovated Thacher Observatory and First Science Results*. 2022, PASP, 134, 1033.

2. O'Neill, T. J.; Cosentino, G.; Tan, J. C.; Cheng, Y.; Liu, M. *The Core Mass Function across Galactic Environments. III. Massive Protoclusters*. 2021, ApJ, 916, 45.
1. Strauss, B. E.; Borges, S. R.; Faridani, T.; Grier, J. A.; Kiihne, A.; Maier, E. R.; Olsen, C.; O'Neill, T.; Rivera-Valentín, E. G.; Sneed, E. L.; Waller, D.; Zamloot, V. *Nonbinary Systems: Looking Towards the Future of Gender Equity in Planetary Science*. 2020, State of the Profession White Paper for the Planetary Science and Astrobiology Decadal Survey 2023–2032.

PRESENTATIONS

Talks:

Colloquium, UVA Physics Department. <i>Mapping the Local Bubble's Magnetic Field in 3D</i>	2023
Press Conference at 241 st Meeting of the AAS. <i>A 3D Map of the Local Bubble's Magnetic Field</i>	2023
241 st Meeting of the AAS. <i>A 3D Map of the Local Bubble's Magnetic Field</i>	2023
Max Planck Institute for Extraterrestrial Physics CAS Star & Planet Formation Journal Club. <i>Sequential Star Formation in the Young SMC Region NGC 602</i>	2022
UVA Sigma Pi Sigma Research Symposium. <i>Mapping the Local Bubble's Magnetic Field in 3D</i>	2022
Smithsonian Astrophysical Observatory REU Symposium. <i>Mapping the Local Bubble's Magnetic Field in 3D</i>	2022
Michigan State University Astro Coffee. <i>The Core Mass Function Across Galactic Environments</i>	2021
237 th Meeting of the AAS. <i>The Core Mass Function in Massive, Dense Protoclusters</i>	2021
VICO-CICO Fall Science Workshop. <i>The Core Mass Function in Massive Protoclusters</i>	2020
VICO-CICO Summer Symposium. <i>Searching for the Peak of the Core Mass Function with ALMA</i>	2020

Posters:

241 st Meeting of the AAS. (Costa et al.) <i>Complete Confusion: Photometry of Extended Sources in Interferometric Radio Data</i>	2023
52 nd Lunar and Planetary Science Conference. (Strauss et al.) <i>Nonbinary Systems: Gender-inclusive Study Methods in Planetary Science</i>	2021
American Geophysical Union Fall Meeting. (Strauss et al.) <i>Nonbinary Systems: Looking Toward the Future of Gender Equity in Planetary Science</i>	2020
232 nd meeting of the AAS. (Swift et al.) <i>Nearby Type Ia Supernova Follow-up at the Thacher Observatory</i>	2018
229 th meeting of the AAS. <i>First Light of the Renovated Thacher Observatory</i>	2017
229 th meeting of the AAS. (Swift et al.) <i>Does the Eclipsing Binary KIC 10935310 Contain a Massively Inflated M Dwarf?</i>	2017
229 th meeting of the AAS. (Edwards et al.) <i>A Search for Planet 9 at the Thacher Observatory</i>	2017

OBSERVING TIME

PI: ALMA Cycle 9 “CO-dark gas in the Low-metallicity Star-forming region NGC 602.” 11 hrs
Co-I: Las Cumbres Observatory Education Program, FLOYDS spectrograph (PI: J. Swift). 2 hrs

SERVICE & OUTREACH

Diversity, Equity, and Inclusion Committee, UVA Dept. of Astronomy	2021 – 2022
Graduate-Undergraduate Astronomy Committee, UVA Dept. of Astronomy	2020 – 2022
Undergraduate Peer Mentoring Program, UVA Dept. of Astronomy	2020 – 2022
UVA Astronomy Club	
<ul style="list-style-type: none"> Vice President 	2022
<ul style="list-style-type: none"> Outreach Chair & Event Manager 	2020 – 2022
Astronomy Undergraduate Council (Chair), UVA Dept. of Astronomy	2020 – 2021

SKILLS

Programming	Python, R, SAS, SQL
Applications	CASA, glue, DS9, OpenSpace, CARTA, MESA

April 2023