

EDUCATION

University of Virginia	Expected December 2022
• B.S. Astronomy-Physics (with distinction) & Applied Statistics	

EXPERIENCE

Undergraduate Researcher, UVA	2019 –
<i>Advisor: Prof. Rémy Indebetouw</i>	
NSF REU, Harvard-Smithsonian Center for Astrophysics	2022
<i>Advisor: Prof. Alyssa Goodman</i>	
Undergraduate Research Fellow, Chalmers Initiative on Cosmic Origins	2020 – 2021
<i>Advisors: Prof. Jonathan Tan & Dr. Giuliana Cosentino</i>	
Student Head of Observatory, Thacher Observatory	2015 – 2018
<i>Advisor: Dr. Jonathan Swift</i>	

AWARDS

Goldwater Scholarship	2022
Astronaut Scholarship	2022
Universities Space Research Association Distinguished Undergraduate Award	2022
Best Talk, UVA Sigma Pi Sigma Research Symposium	2022
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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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.; Kühne, 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:

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
Astronaut Scholarship Foundation Technical Conference. <i>Mapping the Local Bubble's Magnetic Field in 3D</i>	2022
Thacher Observatory Panel Discussion. <i>Thacher's Astronomy Program: Publication Landmark Panel</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:

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; Denver, CO. <i>Nearby Type Ia Supernova Follow-up at the Thacher Observatory</i>	2018
229 th meeting of the AAS; Grapevine, TX. <i>First Light of the Renovated Thacher Observatory</i>	2017
229 th meeting of the AAS; Grapevine, TX. <i>Does the Eclipsing Binary KIC 10935310 Contain a Massively Inflated M Dwarf?</i>	2017
229 th meeting of the AAS; Grapevine, TX. <i>A Search for Planet 9 at the Thacher Observatory</i>	2017
227 th meeting of the AAS; Kissimmee, FL. <i>The Renovation and Future Capabilities of the Thacher Observatory</i>	2016

OBSERVING TIME

PI: ALMA Cycle 9 “CO-dark gas in the Low-metallicity Star-forming region NGC 602.” 12 hrs
Co-I: Las Cumbres Observatory Education Program, FLOYDS spectrograph (PI: J. Swift). 2 hrs
100+ nights using 0.7m telescope at the Thacher Observatory, Ojai, CA

SERVICE & OUTREACH

Diversity, Equity, and Inclusion Committee, UVA Dept. of Astronomy	2021 –
Graduate-Undergraduate Astronomy Committee, UVA Dept. of Astronomy	2020 –

Undergraduate Peer Mentoring Program (Founder), UVA Dept. of Astronomy	2020 –
UVA Astronomy Club	
• Vice President	2022 –
• 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, MESA, CARTA

November 2022