

CONTACT INFORMATION	Institute for Astronomy University of Hawai'i at Mānoa 2680 Woodlawn Drive, Honolulu, Hawai'i, 96822, USA Office B-101	✉ E-mail: alexaand@hawaii.edu
EDUCATION	Institute for Astronomy, University of Hawai'i at Mānoa Honolulu, HI, USA M.S. in Astronomy Ph.D. in Astronomy Yale University New Haven, CT, USA B.S. in Astrophysics Thesis: Using Dark Molecular Clouds to Understand Distant Galaxies	2020 – Present 2022 expected 2026 2016–2020 Advisor: Hector Arce
RESEARCH POSITIONS	Graduate Researcher , Institute for Astronomy Advisor: Jonathan Williams, Eric Gaidos (2021 - 2022) NSF REU Researcher , Haystack Observatory, MIT Advisor: Jens Kauffmann STARS II Fellow , Undergraduate Researcher, Yale University Advisors: Marla Geha & Hector Arce Undergraduate Researcher , Yale University Advisor: Hector Arce STARS Summer Fellow , Undergraduate Researcher, Yale University Advisor: Marla Geha	Aug 2020 – Present May 2019 – Aug 2019 Oct 2018 - May 2020 May 2018 – Aug 2018 May 2017 – Aug 2017
PUBLICATIONS	<ol style="list-style-type: none"> Anderson, A.R., Williams, J.P., Blake, G.A., et al. (<i>in prep.</i>). <i>The DECO-NIRSPAO Survey I: CO Spectro-Astrometry and Hot Water Emission Trace Gas-Rich Inner Disks in Taurus</i> Anderson, A.R., Williams, J.P., Blake, G.A., et al. 2024 (<i>977, 213, ApJ</i>). <i>Gone with the Molecular Wind: Photoevaporation in the Compact Dust Disk around CX Tau</i> Williams, J.P., Painter, C., Anderson, A.R., et al. 2024 (<i>976, 50, ApJ</i>). <i>Dust Drift Timescales in Protoplanetary Disks at the Cusp of Gravitational Instability</i> Anderson, A.R., Williams, J.P., van der Marel, N., et al. 2022 (<i>938, 55, ApJ</i>). <i>Protostellar and Protoplanetary Disk Masses in the Serpens Region</i> 	
FELLOWSHIPS & AWARDS	George Orton and Mona Marie Elmore ARCS Award in Astronomy Graduate Student Organization International Travel Award Best Second-Year Project Best First-Year Project Director's Research Excellence Award George Beckwith Prize for Outstanding Graduating Senior in Astronomy Research Experience for Undergraduates (REU) Fellowship at MIT Science, Technology, and Research Scholars II Fellow Science, Technology, and Research Scholar Summer Fellow	ARCS Foundation, Honolulu Chapter, 2023 University of Hawai'i at Mānoa, 2023 Institute for Astronomy, 2022 Institute for Astronomy, 2021 Institute for Astronomy, 2020 Yale University, 2020 NSF, 2019 Yale University, 2018 – 2020 Yale University, 2017
PRESENTATION (*INVITED)	University of Chicago Exoplanet Seminar Northwestern CIERA Observational Astronomy Meeting DECO Online Workshop 31st Annual Keck Science Meeting University of Hawai'i at Mānoa Research Day* Protostars and Planets VII Joint ALMA Observatory Jets and Discs e-Study Meeting* 235th Meeting of the American Astronomical Society Science, Technology, and Research Scholars at Yale II Program Symposium Columbia Undergraduate Science Journal Symposium Science, Technology, and Research Scholars at Yale II Program Symposium Science, Technology, and Research Scholars at Yale Program Summer Symposium	October 2025 October 2025 September 2025 September 2025 February 2025 April 2023 January 2023 January 2020 November 2019 April 2019 April 2019 July 2017

TELESCOPE PROPOSALS (*PI)	*Keck Observatory – NIRSPEC+AO	UH2022B, UH2023A, UH2023B, UH2024A, UH2024B, UH2025A, UH2025B
	<i>Resolving protoplanetary disk kinematics to interpret JWST spectra</i>	
	Time awarded: 10+ half-nights (Co-I), 40+ half-nights over seven semesters (PI)	
	James Webb Space Telescope – MIRI	STScI Cycle 4
	<i>Unveiling the Changing C/O Chemistry in Young Planet-Forming Disks with JWST and ALMA</i>	
	Time awarded: 27 hours (Co-I)	
	ESO Very Large Telescope – CRIRES+	ESO P113
	<i>Unraveling the molecular gas in the terrestrial planet forming zone of protoplanetary disks using CRIRES+</i>	
	Time awarded: 35 hours (Co-I)	
	*NASA Infrared Telescope Facility – iSHELL	UH2023A, UH2023B
OBSERVING EXPERIENCE	<i>Connecting the inner and outer regions of protoplanetary disks</i>	
	Time awarded: 4 half-nights (Co-I), 4 half-nights (PI)	
	NASA Infrared Telescope Facility – iSHELL	UH2023B
	<i>Disk winds from embedded protostars</i>	
	Time awarded: 3 half-nights (Co-I)	
	Keck Observatory – NIRSPEC+AO	UH 2023B
	<i>Disk winds from embedded protostars</i>	
	Time awarded: 4 half-nights (Co-I)	
	Keck Observatory – NIRSPEC+AO	UH 2023A
	<i>Connecting the inner and outer regions of protoplanetary disks</i>	
MAJOR COL- LABORATIONS	Time awarded: 5 half-nights (Co-I)	
	NASA Infrared Telescope Facility – SpeX	UH 2022B
	<i>Running Out of Gas Near the End of Planet Formation</i>	
	Time awarded: 6 hours (Co-I)	
	Keck 2 (10 m) NIRSPEC+AO: 80+ half-nights	2022 - 2025
	IRTF (3 m) iSHELL: 10 half-nights	2022 - 2024
	The ALMA Disk-Exoplanet C/Onnection (DECO) + iDECO	2022 - Present
	<i>PI: Ilse Cleeves; co-PIs: Yuri Aikawa, Viviana V. Guzmán, Anna Miotello, Dana Anderson</i>	
	ALMA Cycle 9 Large Program and JWST Programs surveying the chemistry of 80 disks across 4 star-forming regions. Ground-based spectroscopy lead.	
PROFESSIONAL SERVICE	Referee, The Astrophysical Journal	2025 - Present
	Associate Director for Education and Research Search Committee	2023 - 2024
	UH Time Allocation Committee Member	2024
	IfA Graduate Representative	2023 - 2024
	IfA Office Space Representative	2022 - 2023
	IfA Faculty Mentor Working Group	2022
	IfA Graduate Admissions Representative	2021 - 2022
OUTREACH (*INVITED)	Maunakea Scholars Program	2022 - Present
	TeachAstro Hawaii Telescope Observing Demo*	2025
	Hawaii Tokai International College Lecture*	2024
	Astronaut Lacy Veach Day of Discovery	2024
	‘Ohana Kilo Hoku Stargazing Night	2024
	Institute for Astronomy Open House (and Talk*)	2022*, 2023*, 2024
	Leeward Community College Discovery Day	2023
	Campbell-Kapolei Stargazing Event	2023
	Pearl Harbor Elementary School Science Night	2023
	Maunakea Observatories AstroDay	2021, 2022, 2023
MENTORSHIP (*INVITED)	Hawaii Geek Meet	2022
	IfA Research Experience for Undergraduates (REU) Co-Director	2023, 2024
	IfA Mentoring in Lower Years Mentor	2022 - 2024
	IfA REU Coffee Chat Mentor	2021, 2022
	STARS Summer: Applying to Graduate School Panelist*	2020
	Yale Engineering and Science Weekend Panelist*	2020
	STARS II Senior Mentor	2019 - 2020