

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 Fall 2022 expected May 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	August 2020 – Present May 2019 – August 2019 Oct 2018 - May 2020 May 2018 – Aug 2018 May 2017 – Aug 2017
REFEREED PUBLICATIONS	1. Anderson, A.R. , Williams, J.P., Blake, G.A., et al. 2024 (<i>subm.</i>). <i>Gone with the Molecular Wind: Photoevaporation in the Compact Dust Disk around CX Tau</i> 2. Williams, J.P., Painter, C., Anderson, A.R. , et al. 2024 (<i>subm.</i>). <i>Dust Drift Timescales in Protoplanetary Disks at the Cusp of Gravitational Instability</i> 3. 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 ARCS Foundation, Honolulu Chapter, 2023 Graduate Student Organization International Travel Award University of Hawai'i at Mānoa, 2023 Best Second-Year Project Institute for Astronomy, 2022 Best First-Year Project Institute for Astronomy, 2021 Director's Research Excellence Award Institute for Astronomy, 2020 George Beckwith Prize for Outstanding Graduating Senior in Astronomy Yale University, 2020 Research Experience for Undergraduates (REU) Fellowship at MIT NSF, 2019 Science, Technology, and Research Scholars II Fellow Yale University, 2018 – 2020 Science, Technology, and Research Scholar Summer Fellow Yale University, 2017	
PRESENTATIONS (*INVITED)	Protostars and Planets VII Joint ALMA Observatory Jets and Disks 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	April 2023 January 2023 January 2020 November 2019 April 2019 April 2019 July 2017
TELESCOPE PROPOSALS (*PI)	ESO Very Large Telescope – CRIRES+ <i>Unraveling the molecular gas in the terrestrial planet forming zone of protoplanetary disks using CRIRES+</i> Time awarded: 35 hours (Rank B; Co-I) PI: Karina Mauco. Co-Is: Carlo Manara, Sierra Grant, Andrea Banzatti, Miguel Vioque, Charles	ESO P113

	Law, Jonathan Williams, Giovanni Rosotti	
	*Keck Observatory – NIRSPEC+AO	UH 2023A, UH2023B, UH2024A
	<i>Resolving protoplanetary disk kinematics to interpret JWST spectra</i>	
	Time awarded: 15 half-nights over three semesters (PI)	
	Co-Is: Jonathan P. Williams, Adwin Boogert, Clara Ross (UH 2023A-UH2023B)	
	*NASA Infrared Telescope Facility – iSHELL	UH2023B
	<i>Connecting the inner and outer regions of protoplanetary disks</i>	
	Time awarded: 4 half-nights (PI)	
	Co-Is: Jonathan P. Williams, Adwin Boogert	
	NASA Infrared Telescope Facility – iSHELL	UH2023B
	<i>Disk winds from embedded protostars</i>	
	Time awarded: 3 half-nights (Co-I)	
	PI: Jonathan P. Williams; Co-I: Adwin Boogert	
	Keck Observatory – NIRSPEC+AO	UH 2023B
	<i>Disk winds from embedded protostars</i>	
	Time awarded: 4 half-nights (Co-I)	
	PI: Jonathan P. Williams; Co-I: Adwin Boogert	
	NASA Infrared Telescope Facility – iSHELL	UH 2023A
	<i>Connecting the inner and outer regions of protoplanetary disks</i>	
	Time awarded: 4 half-nights (Co-I)	
	PI: Jonathan P. Williams; Co-I: Adwin Boogert	
	Keck Observatory – NIRSPEC+AO	UH 2023A
	<i>Connecting the inner and outer regions of protoplanetary disks</i>	
	Time awarded: 5 half-nights (Co-I)	
	PI: Jonathan P. Williams	
	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)	
	PI: Eric Gaidos; Co-I: Rena A. Lee	
	Keck Observatory – NIRSPEC+AO	UH 2022B
	<i>Resolving protoplanetary disk kinematics to interpret JWST spectra</i>	
	Time awarded: 6 half-nights (Co-I)	
	PI: Jonathan P. Williams; Co-I: Adwin Boogert	
OBSERVING EXPERIENCE	Keck 2 (10 m) NIRSPEC+AO: 50+ 1/2 nights	2022 - Present
	IRTF (3 m) iSHELL: 10 1/2 nights	2022 - Present
	IRTF (3 m) SpeX: 1/2 night	2020
	IRAM Telescope (30 m): 3 nights	2020
MAJOR COLLABORATIONS	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 8 Large Program and JWST Cycle 2 Program to survey the chemistry of 80 disks across 4 star-forming regions. JWST-MIRI and Keck-NIRSPAO reduction lead.	
	The JWST Disk Infrared Spectral Chemistry Survey (JDISCS)	2024 - Present
	<i>PIs: Andrea Banzatti, Ilse Cleeves, Feng Long, Klaus Pontoppidan, Colette Salyk, Ke Zhang</i>	
	Several combined JWST programs contributing and using MIRI data of protoplanetary disks reduced in a uniform, consistent process.	
DEPARTMENT SERVICE	Associate Director for Education and Research Search Committee	2023 - Present
	UH Time Allocation Committee Member	2024
	Graduate Representative	2023 - 2024
	Equi-Tea (Queer Grad Support Group) Member	2023
	Office Space Representative	2022 - 2023
	Faculty Mentor Working Group	2022
	IfA Graduate Admissions Representative	2021 - 2022
OUTREACH	Maunakea Scholars Program	2022 - Present
	‘Ohana Kilo Hoku Stargazing Night	2024
	Institute for Astronomy Open House (and Invited 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)	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