

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	2020 – Present
	Honolulu, HI, USA	
	M.S. in Astronomy	Fall 2022
	Ph.D. in Astronomy	expected May 2026
	Yale University	2016–2020
	New Haven, CT, USA	
	B.S. in Astrophysics	
	Thesis: Using Dark Molecular Clouds to Understand Distant Galaxies	Advisor: Hector Arce
RESEARCH POSITIONS	Graduate Researcher , Institute for Astronomy	August 2020 – Present
	Advisor: Jonathan Williams, Eric Gaidos (2021 - 2022)	
	NSF REU Researcher , Haystack Observatory, MIT	May 2019 – August 2019
	Advisor: Jens Kauffmann	
	STARS II Fellow , Undergraduate Researcher, Yale University	Oct 2018 - May 2020
	Advisors: Marla Geha & Hector Arce	
	Undergraduate Researcher , Yale University	May 2018 – Aug 2018
	Advisor: Hector Arce	
	STARS Summer Fellow , Undergraduate Researcher, Yale University	May 2017 – Aug 2017
	Advisor: Marla Geha	
REFEREED PUBLICATIONS	1. 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>	
	2. Williams, J.P., Painter, C., Anderson, A.R. , Ribas, A., 2024 (<i>subm., ApJ</i>). <i>Dust Drift Timescales in Protoplanetary Disks at the Cusp of Gravitational Instability</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	April 2023
	Joint ALMA Observatory Jets and Discs e-Study Meeting*	January 2023
	235th Meeting of the American Astronomical Society	January 2020
	Science, Technology, and Research Scholars at Yale II Program Symposium	November 2019
	Columbia Undergraduate Science Journal Symposium	April 2019
	Science, Technology, and Research Scholars at Yale II Program Symposium	April 2019
	Science, Technology, and Research Scholars at Yale Program Summer Symposium	July 2017
TELESCOPE PROPOSALS (*PI)	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 (Rank B; Co-I)	
	PI: Karina Mauco. Co-Is: Carlo Manara, Sierra Grant, Andrea Banzatti, Miguel Vioque, Charles 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	Keck 2 (10 m) NIRSPEC+AO: 50+ 1/2 nights	2022 - Present
EXPERIENCE	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 COL- LABORATIONS	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	Associate Director for Education and Research Search Committee	2023 - Present
SERVICE	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
	Hawaii Geek Meet	2022

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