## Alejandro Jorge Olvera

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EDUCATION	Arizona State University, Tempe, Arizona, USA		
	<ul> <li>Doctorate in Astrophysics</li> <li>Cumulative GPA: 3.94 / 4.00</li> </ul>	Aug 2021 – May 2027	
	University of California, Berkeley, Berkeley, California, USA		
	<ul> <li>B.A. in Astrophysics</li> <li>Cumulative GPA: 3.33 / 4.00</li> <li>Major GPA: 3.77 / 4.00</li> </ul>	Aug 2017 – May 2021	
RESEARCH	Topics of Interest		
INTERESTS	<ul> <li>Galaxy Evolution &amp; Formation: chemical abundance gradients in local universe galaxies; relationships between the physical characteristics of galaxies; inside-out growth of galaxies</li> </ul>		
RESEARCH	School of Earth and Space Exploration, Arizona State University		
EXPERIENCE	<ul> <li>Graduate Researcher, Advisor: Sanchayeeta Borthakur         <ul> <li>Studying the chemical abundance radial gradient in the galaxy NGC 99 as well as how the abundance relates to the stellar mass, star-formation rate, etc. using imaging and optical spectra of HII regions.</li> </ul> </li> </ul>		
	<ul> <li>Graduate Researcher, Advisor: Darryl Reano         <ul> <li>Qualitatively studying how a self-made inclusively-designed planetarium show shifts attitudes towards science under the Personal Attitudes Toward Science theoretical framework</li> </ul> </li> </ul>		
PUBLICATIONS	Lead Author		
	<ol> <li>DIISC-IV: DIISCovery of Anomalously Low Metallicity H II Regions in N Indirect Evidence of Gas Inflows Olvera, A. J., Borthakur, S., Padave, M., Heckman, T., Gim, H. B., Koplitz, K Dupuis, C., [ADS]</li> </ol>		
FELLOWSHIPS &	SESE Summer Exploration Graduate (SEG) Award	Spring 2025	
AWARDS	ASU The College Leadership Award	Fall 2024	
	National Science Foundation (NSF) Graduate Research Fellowship	Spring 2023	
	Graduate and Professional Student Association Travel Grant	Fall 2022	
	ASU Presidential Graduate Assistantship	Fall 2021	
	Graduate and Professional Student Association Travel Grant	Fall 2021	
CONFEDENCES &	Lunch Talk, National Radio Astronomy Observatory, Socorro, NM		
TALKS	■ "Breaking the Gradient: Chemical Kinematic Transitions in the XUV Disk of NO	GC 3344" 04/30/2025	
	Conference Poster, SACNAS, Phoenix, AZ	10/21/2024	
	<ul> <li>"Indirect Evidence of Gas Inflows in NGC 99"</li> <li>Contributed Talk, GALCROSS, Brno, Czech Republic</li> </ul>	10/31/2024	
	■ "Exploring Metallicity and Gas Flows in NGC 99 through Multi-Wavelength Spectroscopy" 09/17/2024		
	Invited Talk, Rongmon Bordoloi's group at NC State, Virtual	10	
	■ "Exploring Metallicity and Gas Flows in NGC 99"	09/11/2024	
	<b>Contributed Talk</b> , Stellar Feedback in the ISM, Ensenada, Baja California, México		
	■ "Evidence for Inflow and Outflow in NGC 99"  Conference Poster & Lightning Talk, Oases in the Cosmic Desert, Tempe, AZ	12/11/2023	
	"Indirect Evidence of Low Metallicity Gas Accretion from the CGM of NGC 99"	02/23/2023	
	Contributed Talk, 241st American Astronomical Society Meeting, Seattle, WA	3 = . = <b>3</b> = . = <b>3</b>	
	■ "Investigating the Metallicity Distribution in NGC 99"	01/11/2023	
	Contributed Talk, American Geophysical Union Fall 2022 Meeting, Chicago, IL	un Traditional desired	

Lunch Talk, National Radio Astronomy Observatory, Socorro, NM

Planetarium Show"

■ "Measuring Shifts in Personal Attitudes Toward Science After Participating in an Inclusively-designed

12/15/2022

	<ul><li>"Investigating the Metallicity Distribution and Star-Formation in NGC 99"</li></ul>	10/26/2022	
	Public Talk, Marston Exploration Theater Virtual Night Sky Event, ASU		
	"The Orion Nebula and Star-forming regions"	03/23/2022	
OBSERVING	Steward Observatory		
EXPERIENCE	<ul> <li>MMT 6.5m Telescope, Binospec Instrument, Mount Hopkins, AZ</li> </ul>		
	• Total of 10.5 nights of queue observing in 2023A, 2024A, and 2025A as th	e Principle Investigator.	
	■ BOK 90" Telescope, Kitt Peak National Observatory, AZ – Certified Observe	1 0	
	<ul> <li>Total 10 nights of observing in 2022A, 2023A, and 2024A with B&amp;C Spec</li> </ul>	trograph as a PI and Co-I.	
TRAINING	ALMA Cycle 11 Workshop, Tempe, AZ	Mar 2024	
	VLA Data Reduction Workshop, Socorro, NM	Oct 2022	
	19th Synthesis Imaging Workshop, Virtual	May 2022	
	CITI Training		
	<ul> <li>Human Research - IRB – Social &amp; Behavioral Research (Certified)</li> </ul>	Mar 2022	
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LEADERSHIP, SERVICE, &	Planetarium Content Creator and Presenter  Marston Exploration Theater, School of Earth and Space Exploration, ASU	Nov 2023 – Present	
OUTREACH	Graduate Council, School of Earth and Space Exploration, ASU	110V 2025 — F1656111	
	President	Con 2022   Con 2024	
	<ul> <li>President</li> <li>Diversity &amp; Inclusion Graduate Student Advocate</li> </ul>	Sep 2023 – Sep 2024 Sep 2022 – Sep 2023	
	Organizer of QT Coffee, ASU	Dec 2022 – Present	
	• Founder of a monthly coffee hour for LGBTQ+ graduate students in the So		
	Exploration	enoor or Larm und opace	
	Member of REU Hiring Committee for STARsLab, ASU	Aug 2023	
	AGQ Member	Jan 2023 – Jun 2024	
	<ul> <li>Year-round Event Coordinator for the LGBTQ+ affinity group of the American Geophysical Union titled AGQ</li> </ul>		
	Phoenix Fan Fusion, Phoenix, AZ		
	■ Panelist - But can it take selfies?: How to photograph a Black Hole	May 2024	
	■ Panelist - Heir to the Empire: The science of Ahsoka	May 2024	
	■ Panelist - Falling For You: the Science of Gravity and Gravitational Waves	Jun 2023	
	■ Panelist - "or I can bring you in cold." Science in The Mandalorian	Jun 2023	
MENTORSHIP	Graduate Student Mentor to Embark Fellows		
	<ul> <li>Mentored undergraduate students on making a conference poster</li> </ul>	Aug 2024 - Oct 2024	
	Research Mentor to Undergraduate Student		
	■ Sara Holeman	Jan 2023 - Present	
	• Project on studying galaxy Rotation Curves using ${\rm H}\alpha$ emission line.		
CLASSES	School of Earth and Space Exploration, Arizona State University		
	<ul> <li>AST 532 Galaxies &amp; Cosmology II: Galaxy Evolution</li> </ul>	Fall 2024	
	<ul> <li>SES 598 Cosmic Ecosystems</li> </ul>		
	• AST 591 Seminar	Fall 2023	
	<ul> <li>AST 522 Stars/ISM II: Stellar Evolution</li> <li>AST 521 Stars/ISM I: Radiative Transfer</li> </ul>	Spring 2023 Fall 2022	
	• AST 523 Stars/ISM III: Interstellar Medium	Spring 2022	
	<ul> <li>AST 531 Galaxies &amp; Cosmology I: Galaxies</li> </ul>	Fall 2021	
	■ SES 501 SESE Colloquium		
	<ul> <li>SES 502 Exploring SESE Research</li> </ul>		
TEACHING	<b>Teaching Assistant</b> , Arizona State University		
	• AST 301: Physics of Astrophysics	Aug 2022 – Dec 2022	
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