

# CHER SCARLETT

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## EDUCATION

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- 2026 COAST COMMUNITY COLLEGE DISTRICT** GPA: 4.0  
*May* Associate of Art & Science in Physics, Astronomy, Earth Sciences, and Mathematics  
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**2023** Honors Program, Astronomy Club (*Treasurer*), STEM Club (*Outreach Manager*), MESA,  
*August* EOPS, Math & Science Club (*President*),  $\Phi\Theta\Kappa$  (*Phi Theta Kappa*), Society of Physics Students,  
American Physical Society, American Meteorological Society, American Geophysical Union

## SKILLS

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Python | Java | Groovy | Ruby | PHP | C | JavaScript | CSS | HTML | ArcGIS | IDL | Fortran

## ACADEMIC & RESEARCH EXPERIENCES

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- 2025 INSTITUTE FOR STUDENT ASTRONOMICAL RESEARCH (INSTAR)**  
*Las Cumbres Observatory (LCO) Network*  
*Astronomy Research Seminar - Double Star Astrometry | Advisor: Dr. Rachel Freed*
- 2025 NASA JET PROPULSION LABORATORY (JPL) | CALTECH**  
*Analysis and Archiving of Near- and Mid-Infrared Observations of Outer Planet Atmospheres*  
*Student Independent Research Internship (SIRI) | Advisor: Dr. Glenn S. Orton*
- 2025 COMPUTATIONAL RESEARCH ACCESS NETWORK | BRYN MAWR | NSF**  
*Computational Research Methods for Plasma Physics & Sciences Virtual Seminar*  
*Magnetohydrodynamics with FLASH, Monte Carlo Method, & Particle-in-Cell Tracks*
- 2025 ORANGE COAST COLLEGE**  
*Compact Objects and Gravitational Waves | Independent Study | Advisor: Prof. Jessica Asbell*
- 2024 UNIVERSITY OF ILLINOIS | GRAVITY THEORY TRUST**  
*EFTs, Gravity, and Fluid Dynamics: Progress, Challenges, and Emerging Opportunities Workshop*
- 2024 SIMULATING EXTREME SPACETIMES (SXS)**  
*Independent Study | Advisor: Dr. Maria Okounkova*
- 2024 CALTECH | NASA EXOPLANET SCIENCE INSTITUTE (NEXSCI)**  
*Sagan Exoplanet Summer Workshop*  
*Advances in Direct Imaging: From Young Jupiters to Habitable Earths*
- 2024 MIAMI UNIVERSITY | NSF | EARTHSCOPE CONSORTIUM**  
*Seismology Skill Building Workshop*
- 2024 QUEEN'S UNIVERSITY | CERN**  
*The 6th Summer Particle Astrophysics Workshop (EIEIOO)*
- 2024 ARIZONA STATE UNIVERSITY | NASA**  
*Lucy Student Pipeline Accelerator and Competency Enabler (L'SPACE) Academy*  
*NASA Proposal Writing and Evaluation Experience (NPWEE)*

**2024 NASA**  
*NASA Community College Aerospace Scholars (NCAS)*

**2003 FRED HUTCHINSON CANCER CENTER | UNIVERSITY OF WASHINGTON**  
*HutchLab | High School Human Genome Project*

## OBSERVATION EXPERIENCES

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**2025 Caltech Palomar Observatory - Hale Telescope** *Palomar Mountain, CA*  
*2 nights; 5.1 m; 1 - 2.5  $\mu$ m (PHARO)*  
*Observing Jupiter in Support of Juno Mission (NASA-JPL)*

**2025 Las Cumbres Observatory (LCO) - Teide Observatory** *Tenerife, ES*  
*2 nights; 0.35 m; 0.4 - 0.7  $\mu$ m (QHY600)*  
*Astrometry of double stars*

**2025 LCO - South African Astronomical Observatory** *Sutherland, ZA*  
*1 nights; 0.35 m; 0.4 - 0.7  $\mu$ m (QHY600)*  
*Astrometry of double stars*

**2025 NASA Infrared Telescope Facility (IRTF)** *Mauna Kea, HI*  
*4 nights; 3.2 m; 0.8 - 5.3  $\mu$ m (SPEX & MIRSI)*  
*Observing Jupiter in Support of Juno Mission*

**2025 Lockheed Martin Ignite Ground System (IGS)** *Waterton, CO*  
*4 nights; 8-9 kHz*  
*Monitoring for Lunar Trailblazer (LTB) Signal*

**2025 Fukui University of Technology (FUT) Awara Space Center** *Fukui, JP*  
*2 nights; 8-9 kHz*  
*Monitoring for Lunar Trailblazer (LTB) Signal*

**2025 Australia Telescope National Facility** *New South Wales, AU*  
*6 nights; 8-9 kHz (Mopra)*  
*Monitoring for Lunar Trailblazer (LTB) Signal*

## EMPLOYMENT EXPERIENCES

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**2025 CALTECH** *Pasadena, CA*  
*June | Research Assistant, Planetary Sciences Department*  
*| Science Communication Intern, NASA-JPL Lunar Trailblazer Mission*  
**2024** *Advisor: Dr. Bethany Ehlmann*  
*November*

**2025 ORANGE COAST COLLEGE PLANETARIUM** *Costa Mesa, CA*  
*May | Presenter*  
**2024**  
*May*

## TEACHING & TUTORING

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2025 <i>September</i>   <i>June</i>	<b>EARTHSOPE CONSORTIUM   MIAMI UNIVERSITY</b> <i>Teaching Assistant</i> <i>Seismology Skill Building Workshop</i>	<i>Miami, OH</i>
2018 <i>May</i>   <i>January</i>	<b>UNIVERSITY OF WASHINGTON</b> <i>Instructor</i> <i>Introductory Web Development</i>	<i>Seattle, WA</i>

## ENGINEERING

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2023 <i>April</i>   2022 <i>March</i>	<b>CONTROLZEE, INC</b> <i>Senior Software Engineer</i>	<i>San Jose, CA</i>
2021 <i>November</i>   2020 <i>April</i>	<b>APPLE, INC</b> <i>Principal Software Engineer, Global Security Tools</i>	<i>Cupertino, CA</i>
2020 <i>April</i>   2019 <i>April</i>	<b>WEBFLOW</b> <i>Senior Software Engineer, Design System &amp; Core Engine</i>	<i>San Francisco, CA</i>
2019 <i>April</i>   2017 <i>November</i>	<b>STARBUCKS COFFEE COMPANY</b> <i>Lead Software Engineer, Web &amp; Mobile</i>	<i>Seattle, WA</i>
2017 <i>August</i>   2016 <i>August</i>	<b>WORLD WIDE TECHNOLOGY</b> <i>Senior Software Engineer</i>	<i>St. Louis, MO</i>
2016 <i>August</i>   2015 <i>August</i>	<b>ACTIVISION BLIZZARD</b> <i>Software Engineer, Web &amp; Mobile</i>	<i>Irvine, CA</i>
2015 <i>August</i>   2011 <i>November</i>	<b>USA TODAY</b> <i>Senior Developer, New and Emerging Technologies</i>	<i>McLean, VA</i>

2011 November   2008 January	<b>NEUTRINO, INC</b> <i>Front End Developer</i>	Seattle, WA
2008 January   2007 May	<b>LUXURYREALESTATE.COM</b> <i>Front End Developer</i>	Seattle, WA

## VOLUNTEER EXPERIENCES

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Current   2021 October	<b>COWORKER SOLIDARITY FUND</b> <i>Committee Member</i>	Annapolis, MD
2025 April	<b>MESA STEM DAY</b> <i>Workshop Assistant</i>	Newport Beach, CA
2024 December	<b>MESA CAMPUS COUNCIL</b> <i>Panelist</i>	Newport Beach, CA
2024 November	<b>DEMOCRATIC NATIONAL COMMITTEE</b> <i>Phone Bank Operator</i>	Washington, DC
2024 October	<b>NEWPORT-MESA COLLEGE &amp; CAREER FAIR</b> <i>Booth Operator for Coastline College &amp; MESA</i>	Costa Mesa, CA
2024 September	<b>EXPLORE CALTECH</b> <i>Booth Operator for Pasadena City College Physics &amp; Astronomy</i>	Pasadena CA
2024 May	<b>BOLSA CHICA CONSERVANCY</b> <i>Invasive Species Removal</i>	Huntington Beach, CA
2024 May	<b>SAN DIEGO COAST KEEPER</b> <i>Water Quality Testing</i>	San Diego, CA
2024 June   January	<b>SURFRIDER FOUNDATION</b> <i>Beach Cleanup</i>	San Clemente, CA
2016 August   2015 August	<b>ORANGE COUNTY PROBATION DEPARTMENT</b> <i>At-risk youth mentor (OC GRIP)</i>	Santa Ana, CA
2016 August   2015 August	<b>MINDMAKERS</b> <i>Youth mentor &amp; web developer</i>	Pasadena, CA

2009	<b>LIVEFEED</b>	St. Louis, MO
August	Web developer	
2007		
January		
2005	<b>MISSOURI PUBLIC INTEREST RESEARCH GROUP</b>	St. Louis, MO
August	Canvasser	
June		

## AWARDS & SCHOLARSHIPS

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2025	<b>AMERICAN INSTITUTE OF PHYSICS</b>	College Park, MD
	TEAM-UP Together Scholar	
2025	<b>ORANGE COAST COLLEGE</b>	Costa Mesa, CA
	Garrison Fellow	
2025	<b>COMMUNITY COLLEGE LEAGUE OF CALIFORNIA</b>	Sacramento, CA
	Phi Theta Kappa All-California Academic Award, First Team	
2025	<b>COASTLINE COLLEGE</b>	Fountain Valley, CA
	Associated Student Government Career & Technical Merit Scholarship	
2025	<b>COASTLINE COLLEGE</b>	Fountain Valley, CA
	Herman Tate Endowment	
2025	<b>JEANNETTE RANKIN FOUNDATION</b>	Athens, GA
2024	Jeannette Rankin National Scholar	
2025	<b>NATIONAL SCIENCE FOUNDATION</b>	Alexandria, VA
2024	Coastline College: Science, Technology, Engineering, & Math Scholar	
2024	<b>ORANGE COAST COLLEGE FOUNDATION</b>	Costa Mesa, CA
	Peter Christian Hernandez Memorial Scholarship Award	
2022	<b>HACKER NOON</b>	Edwards, CO
	Developer Defying Patriarchy (While Being an Awesome Developer) Noonie	

## PUBLICATIONS

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- Lunar Trailblazer Interactive Model. (2025). *California Institute of Technology*.  
<https://trailblazer.caltech.edu/spacecraft/index.html>
- Scarlett, C. (2025). Water into Doom: Balancing AI with Climate Action & Environmental Costs at the Water-Energy Nexus. *The Honors Transfer Council of California Building Bridges Research Conference*.
- Scarlett, C. (2024). Remote seismology correlation and Mount St. Helens volcanology. *Seismology Skill Building Workshop*.  
[https://nbviewer.org/urls/www.iris.edu/hq/files/short\\_courses/2020/ssb/mt-rainier-seismicity.ipynb](https://nbviewer.org/urls/www.iris.edu/hq/files/short_courses/2020/ssb/mt-rainier-seismicity.ipynb)

- Scarlett, C. (2024, July 29). *A case of the blues: Is Overexposure to Artificial Light Causing a Mental Health Crisis?*. Esri. <https://storymaps.arcgis.com/stories/e236a32458bb4b7db87171f6a0305d8a>
- Carlson, G., Roginsky, J., & Scarlett, C. (2022, February 6). Washington can be a leader on protecting sexual harassment, assault survivors. *The Olympian*.  
<https://www.theolympian.com/opinion/op-ed/article258066068.html>
- Scarlett, C. (2019, March 12). Creating a Spotify-powered app using Nuxt.js. *Smashing Magazine*.  
<https://www.smashingmagazine.com/2019/03/spotify-app-vue-nuxt-javascript/>