

CHER SCARLETT

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EDUCATION

2026 CALIFORNIA COMMUNITY COLLEGES GPA: 4.0

May Coastline College | A.S., Mathematics; A.A., Art & Humanities

| Fullerton College | A.S., Oceanography & Meteorology

2023 Orange Coast College | A.S., Astronomy & Earth Science

August Santa Barbara City College | A.S., Physics; A.A., Liberal Arts: Science and Mathematics

Extracurriculars: Honors Program, Astronomy Club (*Treasurer*), STEM Club (*Outreach Manager*), MESA, EOPS, Math & Science Club (*President*), $\Phi\Theta\Kappa$ (*Phi Theta Kappa*)

Professional Memberships: Institute of Physics, Society of Physics Students, American Physical Society, American Meteorological Society, American Geophysical Union

SKILLS

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

LaTeX | Mathematica | MATLAB | Jupyter Notebooks | AstroImageJ | ArcGIS

RESEARCH EXPERIENCES

2025 INSTITUTE FOR STUDENT ASTRONOMICAL RESEARCH (INSTAR)

Las Cumbres Observatory (LCO) Network

Astronomy Research Seminar | Advisor: Dr. Rachel Freed

2025 NASA JET PROPULSION LABORATORY (NASA-JPL)

NASA Juno Mission

Analysis and Archiving of Near- and Mid-Infrared Observations of Outer Planet Atmospheres

Planetary and Exoplanetary Atmospheres Group

Student Independent Research Internship (SIRI) | Advisor: Dr. Glenn S. Orton

2025 CALIFORNIA INSTITUTE OF TECHNOLOGY (CALTECH)

| *NASA-JPL Lunar Trailblazer Mission*

2024 *Planetary Sciences Department*

Research Assistant, Science Communication Intern | Advisor: Dr. Bethany Ehlmann

2025 ORANGE COAST COLLEGE

Compact Objects and Gravitational Waves | Independent Study | Advisor: Prof. Jessica Asbell

ACADEMIC & WORKSHOP EXPERIENCES

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

2024 UNIVERSITY OF ILLINOIS | GRAVITY THEORY TRUST

EFTs, Gravity, and Fluid Dynamics: Progress, Challenges, and Emerging Opportunities Workshop

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

- 2025 Caltech Palomar Observatory - Hale Telescope** *Palomar Mountain, CA*
2 nights; 5.1 m; 1 - 2.5 μ 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 μ m (QHY600)
Astrometry of double stars
- 2025 LCO - South African Astronomical Observatory** *Sutherland, ZA*
1 nights; 0.35 m; 0.4 - 0.7 μ m (QHY600)
Astrometry of double stars
- 2025 NASA Infrared Telescope Facility (IRTF)** *Mauna Kea, HI*
4 nights; 3.2 m; 0.8 - 5.3 μ 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

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

TEACHING & TUTORING

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

ENGINEERING

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

2011 November	NEUTRINO, INC	Seattle, WA
	Front End Developer	
2008 January		
2008 January	LUXURYREALESTATE.COM	Seattle, WA
	Front End Developer	
2007 May		

VOLUNTEER EXPERIENCES

2021 October	COWORKER SOLIDARITY FUND	Annapolis, MD
	Committee Member	
2025 October	COMPUTATIONAL RESEARCH ACCESS NETWORK	Fullerton, CA
	Teaching Assistant	
2025 April	MESA STEM DAY	Newport Beach, CA
	Workshop Assistant	
2024 December	MESA CAMPUS COUNCIL	Newport Beach, CA
	Panelist	
2024 November	DEMOCRATIC NATIONAL COMMITTEE	Washington, DC
	Phone Bank Operator	
2024 October	NEWPORT-MESA COLLEGE & CAREER FAIR	Costa Mesa, CA
	Booth Operator for Coastline College & MESA	
2024 September	EXPLORE CALTECH	Pasadena CA
	Booth Operator for Pasadena City College Physics & Astronomy	
2024 May	BOLSA CHICA CONSERVANCY	Huntington Beach, CA
	Invasive Species Removal	
2024 May	SAN DIEGO COAST KEEPER	San Diego, CA
	Water Quality Testing	
2023 August	SURFRIDER FOUNDATION	San Clemente, CA
	Beach Cleanup	
2015 August	ORANGE COUNTY PROBATION DEPARTMENT	Santa Ana, CA
	At-risk youth mentor (OC GRIP)	
2015 August	MINDMAKERS	Pasadena, CA
	Youth mentor & web developer	

AWARDS & SCHOLARSHIPS

2025	AMERICAN INSTITUTE OF PHYSICS	College Park, MD
	TEAM-UP Together Scholar	

2025	COASTLINE COLLEGE <i>Honor's List (Summer)</i>	<i>Fountain Valley, CA</i>
2025	ORANGE COAST COLLEGE <i>Garrison Fellow</i>	<i>Costa Mesa, CA</i>
2025	COMMUNITY COLLEGE LEAGUE OF CALIFORNIA <i>All-California Academic Award, First Team</i> <i>(unordered top 20 students)</i>	<i>Sacramento, CA</i>
2025	COASTLINE COLLEGE FOUNDATION <i>Associated Student Government Career & Technical Merit Scholarship</i>	<i>Fountain Valley, CA</i>
2025	COASTLINE COLLEGE FOUNDATION <i>Herman Tate Endowment</i>	<i>Fountain Valley, CA</i>
2025	JEANNETTE RANKIN FOUNDATION	<i>Athens, GA</i>
2024	<i>Jeannette Rankin National Scholar</i>	
2025	NATIONAL SCIENCE FOUNDATION	<i>Alexandria, VA</i>
2024	<i>Coastline College: Science, Technology, Engineering, & Math Scholar</i>	
2024	COASTLINE COLLEGE <i>Honor's List (Fall)</i>	<i>Fountain Valley, CA</i>
2024	ORANGE COAST COLLEGE FOUNDATION <i>Peter Christian Hernandez Memorial Scholarship Award</i>	<i>Costa Mesa, CA</i>
2024	ORANGE COAST COLLEGE <i>Honor's List (Spring)</i>	<i>Costa Mesa, CA</i>
2024	GOLDEN WEST COLLEGE <i>Honor's List (Spring)</i>	<i>Huntington Beach, CA</i>
2022	HACKER NOON <i>Developer Defying Patriarchy (While Being an Awesome Developer)</i> <i>(Runner-up)</i>	<i>Edwards, CO</i>

PUBLICATIONS

Scarlett, C. (2025). Lunar Trailblazer Interactive Model [Computer software]. *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. (2025). Emmy Noether: A Woman on the Edge of [Space]Time. *Academia*.
https://www.academia.edu/144259985/Emmy_Noether_A_Woman_on_the_Edge_of_Space_Time

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
- 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/>