

CHER SCARLETT

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EDUCATION

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

SKILLS

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

ACADEMIC & RESEARCH EXPERIENCES

- 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

2025 Caltech Palomar Observatory - Hale Telescope Palomar Mountain, CA
2 nights; 5.1 m; 1 - 2.5 μm (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 μm (QHY600)
Astrometry of double stars

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

2025 NASA Infrared Telescope Facility (IRTF) Mauna Kea, HI
4 nights; 3.2 m; 0.8 - 5.3 μm (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 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

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

ENGINEERING

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

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

VOLUNTEER EXPERIENCES

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

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

AWARDS & SCHOLARSHIPS

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

PUBLICATIONS

- 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 for Undergraduates*.
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/>