

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

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)**
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**
| *Science Communication, 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 EARTHSCOPE CONSORTIUM | MIAMI UNIVERSITY** *Miami, OH*
September Teaching Assistant
 |
June Seismology Skill Building Workshop

2018 UNIVERSITY OF WASHINGTON Seattle, WA
 May Instructor
 | Introductory Web Development
 January

ENGINEERING

2023 CONTROLZEE, INC San Jose, CA
 April Senior Software Engineer
 |
 2022
 March

2021 APPLE, INC Cupertino, CA
 November Principal Software Engineer, Global Security Tools
 |
 2020
 April

2020 WEBFLOW San Francisco, CA
 April Senior Software Engineer, Design System & Core Engine
 |
 2019
 April

2019 STARBUCKS COFFEE COMPANY Seattle, WA
 April Lead Software Engineer, Web & Mobile
 |
 2017
 November

2017 WORLD WIDE TECHNOLOGY St. Louis, MO
 August Senior Software Engineer
 |
 2016
 August

2016 ACTIVISION BLIZZARD Irvine, CA
 August Software Engineer, Web & Mobile
 |
 2015
 August

2015 USA TODAY McLean, VA
 August Senior Developer, New and Emerging Technologies
 |
 2011
 November

2011 NEUTRINO, INC Seattle, WA
 November Front End Developer
 |
 2008
 January

2008 LUXURYREALESTATE.COM Seattle, WA
 January Front End Developer
 |
 2007
 May

VOLUNTEER EXPERIENCES

Current COWORKER SOLIDARITY FUND Annapolis, MD
 | Committee Member
 2021
 October

2025 MESA STEM DAY Newport Beach, CA
 April Workshop Assistant

2024 MESA CAMPUS COUNCIL Newport Beach, CA
 December Panelist

2024 DEMOCRATIC NATIONAL COMMITTEE Washington, DC
 November Phone Bank Operator

2024 NEWPORT-MESA COLLEGE & CAREER FAIR Costa Mesa, CA
 October Booth Operator for Coastline College & MESA

2024 EXPLORE CALTECH Pasadena CA
 September Booth Operator for Pasadena City College Physics & Astronomy

2024 BOLSA CHICA CONSERVANCY Huntington Beach, CA
 May Invasive Species Removal

2024 SAN DIEGO COAST KEEPER San Diego, CA
 May Water Quality Testing

2024 SURFRIDER FOUNDATION San Clemente, CA
 June Beach Cleanup
 |
 January

2016 ORANGE COUNTY PROBATION DEPARTMENT Santa Ana, CA
 August At-risk youth mentor (OC GRIP)
 |
 2015
 August

2016 MINDMAKERS Pasadena, CA
 August Youth mentor & web developer
 |
 2015
 August

2009 LIVEFEED St. Louis, MO
 August Web developer
 |
 2007
 January

AWARDS & SCHOLARSHIPS

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

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*.
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/>