

CHER SCARLETT

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EDUCATION

- 2026 CALIFORNIA COMMUNITY COLLEGES** GPA: 4.0
May Santa Barbara City College | Associate in Science, Physics
| Coastline College | Associate in Science, Mathematics
2023 Orange Coast College | Associate in Science, Astronomy & Earth Sciences
August
Honors Program, Astronomy Club (*Treasurer*), STEM Club (*Outreach Manager*), MESA,
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 | 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 - Double Star Astrometry | Advisor: Dr. Rachel Freed
- 2025 NASA JET PROPULSION LABORATORY (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 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	NEUTRINO, INC Front End Developer	Seattle, WA
2008 January		
2008 January	LUXURYREALESTATE.COM Front End Developer	Seattle, WA
2007 May		

VOLUNTEER EXPERIENCES

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

2015 MINDMAKERS
August Youth mentor & web developer

Pasadena, CA

2007 LIVEFEED
January Web developer

St. Louis, MO

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 FOUNDATION *Fountain Valley, CA*
Associated Student Government Career & Technical Merit Scholarship

2025 COASTLINE COLLEGE FOUNDATION *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)
(Runner-up)

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/>