

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 Science
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

- 2026 **CUESTA COLLEGE**
Advisor: Dr. James Eickemeyer
- 2025 **INSTITUTE FOR STUDENT ASTRONOMICAL RESEARCH (INSTAR)**
Las Cumbres Observatory (LCO) Network
Astronomy Research Seminar | 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** *Fukai, 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 | ORANGE COAST COLLEGE PLANETARIUM | <i>Costa Mesa, CA</i> |
| <i>May</i> | <i>Presenter</i> | |
| 2024 | | |

TEACHING & TUTORING

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

ENGINEERING

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

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| 2015 | USA TODAY | <i>McLean, VA</i> |
| <i>August</i> | <i>Senior Developer, New and Emerging Technologies</i> | |
| 2011 | | |
| <i>November</i> | | |
| 2011 | NEUTRINO, INC | <i>Seattle, WA</i> |
| <i>November</i> | <i>Front End Developer</i> | |
| 2008 | | |
| <i>January</i> | | |
| 2008 | LUXURYREALESTATE.COM | <i>Seattle, WA</i> |
| <i>January</i> | <i>Front End Developer</i> | |
| 2007 | | |
| <i>May</i> | | |

VOLUNTEER EXPERIENCES

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

AWARDS & SCHOLARSHIPS

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| 2025 | AMERICAN INSTITUTE OF PHYSICS | <i>College Park, MD</i> |
| | <i>TEAM-UP Together Scholar</i> | |
| 2025 | ORANGE COAST COLLEGE | <i>Costa Mesa, CA</i> |
| | <i>Garrison Fellow</i> | |
| 2025 | COMMUNITY COLLEGE LEAGUE OF CALIFORNIA | <i>Sacramento, CA</i> |
| | <i>Phi Theta Kappa All-California Academic Award, First Team</i> | |
| 2025 | COASTLINE COLLEGE FOUNDATION | <i>Fountain Valley, CA</i> |
| | <i>Associated Student Government Career & Technical Merit Scholarship</i> | |
| 2025 | COASTLINE COLLEGE FOUNDATION | <i>Fountain Valley, CA</i> |
| | <i>Herman Tate Endowment</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 | ORANGE COAST COLLEGE FOUNDATION | <i>Costa Mesa, CA</i> |
| | <i>Peter Christian Hernandez Memorial Scholarship Award</i> | |
| 2022 | HACKER NOON | <i>Edwards, CO</i> |
| | <i>Developer Defying Patriarchy (While Being an Awesome Developer)</i> <i>(Runner-up)</i> | |

PUBLICATIONS

Lunar Trailblazer Interactive Model. (2025). *California Institute of Technology*.
<https://traillblazer.caltech.edu/spaceship/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/>