

# CHER SCARLETT

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## EDUCATION

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2026 **ORANGE COAST COLLEGE** GPA: 4.0

May | A.S., Physics, Mathematics, Astronomy, & Earth Science; A.A. Liberal Arts

2024 **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

*Includes enrollment at Santa Barbara City College and Coast Community College District schools.*

## SKILLS

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Python | Java | Groovy | Ruby | PHP | C | JavaScript | CSS | HTML | IDL | Fortran  
LaTeX | Mathematica | MATLAB | Jupyter Notebooks | AstroImageJ | ArcGIS

## RESEARCH EXPERIENCES

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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 (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

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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

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|-------------|--|-----------------------------|
| <b>2025</b> | <b>Caltech Palomar Observatory - Hale Telescope</b><br><i>2 nights; 5.1 m; 1 - 2.5 <math>\mu</math>m (PHARO)</i><br><i>Observing Jupiter in Support of Juno Mission (NASA-JPL)</i> | <i>Palomar Mountain, CA</i> |
| <b>2025</b> | <b>Las Cumbres Observatory (LCO) - Teide Observatory</b><br><i>2 nights; 0.35 m; 0.4 - 0.7 <math>\mu</math>m (QHY600)</i><br><i>Astrometry of double stars</i>                     | <i>Tenerife, ES</i>         |
| <b>2025</b> | <b>LCO - South African Astronomical Observatory</b><br><i>1 nights; 0.35 m; 0.4 - 0.7 <math>\mu</math>m (QHY600)</i><br><i>Astrometry of double stars</i>                          | <i>Sutherland, ZA</i>       |
| <b>2025</b> | <b>NASA Infrared Telescope Facility (IRTF)</b><br><i>4 nights; 3.2 m; 0.8 - 5.3 <math>\mu</math>m (SPEX &amp; MIRS)</i><br><i>Observing Jupiter in Support of Juno Mission</i>     | <i>Mauna Kea, HI</i>        |
| <b>2025</b> | <b>Lockheed Martin Ignite Ground System (IGS)</b><br><i>4 nights; 8-9 kHz</i><br><i>Monitoring for Lunar Trailblazer (LTB) Signal</i>  | <i>Waterton, CO</i>         |
| <b>2025</b> | <b>Fukui University of Technology (FUT) Awara Space Center</b><br><i>2 nights; 8-9 kHz</i><br><i>Monitoring for Lunar Trailblazer (LTB) Signal</i>                                 | <i>Fukui, JP</i>            |
| <b>2025</b> | <b>Australia Telescope National Facility</b><br><i>6 nights; 8-9 kHz (Mopra)</i><br><i>Monitoring for Lunar Trailblazer (LTB) Signal</i>   | <i>New South Wales, AU</i>  |

## EMPLOYMENT EXPERIENCES

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

## TEACHING & TUTORING

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

## ENGINEERING

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

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

## VOLUNTEER EXPERIENCES

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

**2015 MINDMAKERS**  
*August Youth mentor & web developer*

*Pasadena, CA*

## AWARDS & SCHOLARSHIPS

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<b>2025</b>	<b>COASTLINE COLLEGE</b> <i>President's List (Fall)</i>	<i>Fountain Valley, CA</i>
<b>2025</b>	<b>SANTA BARBARA CITY COLLEGE</b> <i>President's List (Fall)</i>	<i>Santa Barbara, CA</i>
<b>2025</b>	<b>WOMEN'S INDEPENDENT SCHOLARS PROGRAM</b> <i>Doris Buffett Independent Scholar</i>	<i>Wilmington, NC</i>
<b>2025</b>	<b>AMERICAN INSTITUTE OF PHYSICS</b> <i>TEAM-UP Together Scholar</i>	<i>College Park, MD</i>
<b>2025</b>	<b>COASTLINE COLLEGE</b> <i>Honor's List (Summer)</i>	<i>Fountain Valley, CA</i>
<b>2025</b>	<b>ORANGE COAST COLLEGE</b> <i>Garrison Fellow</i>	<i>Costa Mesa, CA</i>
<b>2025</b>	<b>COMMUNITY COLLEGE LEAGUE OF CALIFORNIA</b> <i>All-California Academic Award, First Team</i> <i>(unordered top 20 students)</i>	<i>Sacramento, CA</i>
<b>2025</b>	<b>COASTLINE COLLEGE FOUNDATION</b> <i>Associated Student Government Career &amp; Technical Merit Scholarship</i>	<i>Fountain Valley, CA</i>
<b>2025</b>	<b>COASTLINE COLLEGE FOUNDATION</b> <i>Herman Tate Endowment</i>	<i>Fountain Valley, CA</i>
<b>2025</b>	<b>JEANNETTE RANKIN FOUNDATION</b>	<i>Athens, GA</i>
<b>2024</b>	<i>Jeannette Rankin National Scholar</i>	
<b>2025</b>	<b>NATIONAL SCIENCE FOUNDATION</b>	<i>Alexandria, VA</i>
<b>2024</b>	<i>Coastline College: Science, Technology, Engineering, &amp; Math Scholar</i>	
<b>2024</b>	<b>COASTLINE COLLEGE</b> <i>Honor's List (Fall)</i>	<i>Fountain Valley, CA</i>
<b>2024</b>	<b>ORANGE COAST COLLEGE FOUNDATION</b> <i>Peter Christian Hernandez Memorial Scholarship Award</i>	<i>Costa Mesa, CA</i>
<b>2024</b>	<b>ORANGE COAST COLLEGE</b> <i>Honor's List (Spring)</i>	<i>Costa Mesa, CA</i>
<b>2024</b>	<b>GOLDEN WEST COLLEGE</b> <i>Honor's List (Spring)</i>	<i>Huntington Beach, CA</i>

*Developer Defying Patriarchy (While Being an Awesome Developer)*  
*(Runner-up)*

## PUBLICATIONS

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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](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](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/>

Scarlett, C. (2008). sIFRvault [Computer software].