

# CHER SCARLETT

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## EDUCATION

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**2026** **SANTA BARBARA CITY COLLEGE**  
*May* **COAST COMMUNITY COLLEGE DISTRICT | CVC** GPA: 4.0  
| Associate of Science in Physics, Mathematics, and Astronomy  
**2024**  
*August* Honors Program, Astronomy Club (*Treasurer*), STEM Club (*Outreach Manager*), MESA,  
Math & Science Club (*President*), Women for Success, Associated Student Government  
(*Senator of Distance Learning*),  $\Phi\Theta\K$  (*Phi Theta Kappa*), Society of Physics Students, American  
Physical Society, American Nuclear Society, American Geophysical Union, American  
Association of University Women

## SKILLS

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

## ACADEMIC & RESEARCH EXPERIENCES

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**2025** **INSTITUTE FOR STUDENT ASTRONOMICAL RESEARCH (INSTAR) | LCO**  
*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

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- 2025 Las Cumbres Observatory (LCO)** *Goleta, CA*  
*2 nights; (Haleakalā, HI; McDonald, TX; Teide, ES)*  
*Astrometry of double stars*
- 2025 NASA Infrared Telescope Facility (IRTF)** *Mauna Kea, HI*  
*2 nights; 3.2m; 0.8-5.3 microns (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

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- 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*  
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**2024**  
*May*

## TEACHING & TUTORING

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- 2025 EARTHSCOPE | MIAMI UNIVERSITY | NSF** *Miami, OH*  
*September Teaching Assistant*  
*| Seismology Skill Building Workshop*  
*June*

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

## 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*  
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 2015  
 August

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

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

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

## VOLUNTEER EXPERIENCES

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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  
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 January

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

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

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

2005 MISSOURI PUBLIC INTEREST RESEARCH GROUP  
 August Canvasser  
 |  
 June

St. Louis, MO

## AWARDS & SCHOLARSHIPS

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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 &amp; Technical Merit Scholarship</i>	Fountain Valley, CA
2025	COASTLINE COLLEGE <i>Herman Tate Endowment</i>	Fountain Valley, CA
2024	NATIONAL SCIENCE FOUNDATION <i>Scholarships in Science, Technology, Engineering, &amp; Math (S-STEM)</i>	Alexandria, VA
2024	JEANNETTE RANKIN FOUNDATION <i>Jeannette Rankin National Scholar</i>	Athens, GA
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) Noonie</i>	Edwards, CO

## PUBLICATIONS

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- 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](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/>