

# CHER SCARLETT

hello@cher.dev | linkedin.com/in/cherscarlett | cher.dev

## 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*),  $\Phi\Theta\Kappa$  (*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  $\mu$ 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  $\mu$ m (QHY600)*  
*Astrometry of double stars*
- 2025 LCO - South African Astronomical Observatory** *Sutherland, ZA*  
*1 nights; 0.35 m; 0.4 - 0.7  $\mu$ m (QHY600)*  
*Astrometry of double stars*
- 2025 NASA Infrared Telescope Facility (IRTF)** *Mauna Kea, HI*  
*4 nights; 3.2 m; 0.8 - 5.3  $\mu$ 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	<b>EARTHSOPE CONSORTIUM   MIAMI UNIVERSITY</b> <i>Teaching Assistant</i> <i>Seismology Skill Building Workshop</i>	<i>Miami, OH</i>
2018 May   January	<b>UNIVERSITY OF WASHINGTON</b> <i>Instructor</i> <i>Introductory Web Development</i>	<i>Seattle, WA</i>

## ENGINEERING

---

2023 April   2022 March	<b>CONTROLZEE, INC</b> <i>Senior Software Engineer</i>	<i>San Jose, CA</i>
2021 November   2020 April	<b>APPLE, INC</b> <i>Principal Software Engineer, Global Security Tools</i>	<i>Cupertino, CA</i>
2020 April   2019 April	<b>WEBFLOW</b> <i>Senior Software Engineer, Design System &amp; Core Engine</i>	<i>San Francisco, CA</i>
2019 April   2017 November	<b>STARBUCKS COFFEE COMPANY</b> <i>Lead Software Engineer, Web &amp; Mobile</i>	<i>Seattle, WA</i>
2017 August   2016 August	<b>WORLD WIDE TECHNOLOGY</b> <i>Senior Software Engineer</i>	<i>St. Louis, MO</i>
2016 August   2015 August	<b>ACTIVISION BLIZZARD</b> <i>Software Engineer, Web &amp; Mobile</i>	<i>Irvine, CA</i>
2015 August   2011 November	<b>USA TODAY</b> <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](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/>