

CHER SCARLETT

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

EDUCATION

2026 **SANTA BARBARA CITY COLLEGE**

May | **ORANGE COAST COLLEGE**

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

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

ACADEMIC & RESEARCH EXPERIENCES

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

- 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

- 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
2024
May

TEACHING & TUTORING

- 2025 EARTHSOPE | 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

2023 CONTROLZEE, INC *San Jose, CA*
 April *Senior Software Engineer*
 |
 2022
 March

2021 APPLE, INC *Cupertino, CA*
 November *Principal Software Engineer, Global Security Tools*
 |
 2020
 April

2020 WEBFLOW *San Francisco, CA*
 April *Senior Software Engineer, Design System & Core Engine*
 |
 2019
 April

2019 STARBUCKS COFFEE COMPANY *Seattle, WA*
 April *Lead Software Engineer, Web & Mobile*
 |
 2017
 November

2017 WORLD WIDE TECHNOLOGY *St. Louis, MO*
 August *Senior Software Engineer*
 |
 2016
 August

2016 ACTIVISION BLIZZARD *Irvine, CA*
 August *Software Engineer, Web & Mobile*
 |
 2015
 August

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

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

2008 LUXURYREALESTATE.COM *Seattle, WA*

January | Front End Developer
 2007
 May

VOLUNTEER EXPERIENCES

Current 2021 October	COWORKER SOLIDARITY FUND Committee Member	Annapolis, MD
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
2024 June January	SURFRIDER FOUNDATION Beach Cleanup	San Clemente, CA
2016 August 2015 August	ORANGE COUNTY PROBATION DEPARTMENT At-risk youth mentor (OC GRIP)	Santa Ana, CA
2016 August 2015 August	MINDMAKERS Youth mentor & web developer	Pasadena, CA
2009 August 2007 January	LIVEFEED Web developer	St. Louis, MO

2005 MISSOURI PUBLIC INTEREST RESEARCH GROUP
August Canvasser
|
June

St. Louis, MO

AWARDS & SCHOLARSHIPS

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 & 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, & 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

PUBLICATIONS

- 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
- 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/>