CHER SCARLETT

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

EDUCATION

2026
May
|
2024
January

CALIFORNIA COMMUNITY COLLEGE CONSORTIUM
Orange Coast | Golden West | Coastline | Lake Tahoe | Irvine Valley | Santa Barbara | Porterville | LA Harbor
MAJOR: Physics, Mathematics, & Astronomy
CLUBS: Astronomy Club (*Treasurer*), STEM Club (*Outreach Manager*), MESA, Math & Science Club (*President*), Women for Success
SOCIETIES: ΦΘΚ, ΑΓΣ, ΣΑΠ, Society of Physics Students, American Physical Society, American Nuclear Society, American Geophysical Union, STEP UP Community, American Association of University Women
GPA: 4.0; *With Honors*

RELEVANT COURSEWORK

Introductory Astronomy (Honors) | Cosmology | Machine Learning for Physics & Astronomy | Single (Honors) & Multivariable Calculus | Mechanics of Solids & Fluids | Heat, Light, & Modern Physics | General Chemistry | Introductory Astrophysics (Honors) | Compact Objects & Gravitational Waves (Directed Study) | Introductory Geographic Information Systems | Marine Biology

SKILLS

Python (Advanced) | Java (Advanced) | Groovy (Advanced) Ruby (Advanced) | PHP (Advanced) | Go (Beginner) | C (Beginner) | Swift (Beginner) | JavaScript/TypeScript (Advanced) | CSS (Advanced) | HTML (Advanced) | ArcGIS (Beginner) | DigiStar (Beginner) | SMC (Beginner) | SKLearn (Beginner) | IDL (Beginner) | FLASH (Beginner)

ACADEMIC & RESEARCH EXPERIENCES

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

2024

UNIVERSITY OF ILLINOIS | GRAVITY THEORY TRUST
EFTs, Gravity, and Fluid Dynamics: Progress, Challenges, and Emerging Opportunities Workshop

2024

CALTECH | PASADENA CITY COLLEGE
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 EXPERIENCE

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**   *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

Current   **CALTECH**   *Pasadena, CA*
|
2024   *Research Assistant, Planetary Sciences Department*
November *Science Communication Intern, NASA-JPL Lunar Trailblazer Mission*
            Advisor: Dr. Bethany Ehlmann

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

TEACHING & TUTORING

2025
September
|
June

EARTHSCOPE | MIAMI UNIVERSITY | NSF   *Miami, OH*
Teaching Assistant
Seismology Skills Workshop

2018
May
|
January

UNIVERSITY OF WASHINGTON   *Seattle, WA*
Instructor
Introductory Web Development

ENGINEERING

2023
April
|
2022
March

CONTROLZEE, INC   *San Jose, CA*
Senior Software Engineer

2021
November
|
2020
April

APPLE, INC   *Cupertino, CA*
Principal Software Engineer, Global Security Tools

2020
April
|
2019
April

WEBFLOW   *San Francisco, CA*
Senior Software Engineer, Design System & Core Engine

2019
April
|
2017
November

STARBUCKS COFFEE COMPANY   *Seattle, WA*
Lead Software Engineer, Web & Mobile

2017
August
|
2016
August

WORLD WIDE TECHNOLOGY   *St. Louis, MO*
Senior Software Engineer

2016
August
|
2015
August

ACTIVISION BLIZZARD   *Irvine, CA*
Software Engineer, Web & Mobile

2015
August

USA TODAY   *McLean, VA*

	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	**COWORKER SOLIDARITY FUND**	*Annapolis, MD*
	Committee Member	
2021		
October		

| 2025 | **MESA STEM DAY** | *Newport Beach, CA* |
| April | *Volunteer* | |

| 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*	
January		

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

2016 *August* | **2015** *August*	**MINDMAKERS** *Youth mentor & web developer*	*Pasadena, CA*
2014 *August*	**KABOOM!** *Playground builder*	*Costa Mesa, CA*
2014 *August* | *January*	**YMCA** *Volunteer for Cheer team*	*St. Louis, MO*
2014 *August* | *January*	**GIRL SCOUTS OF AMERICA** *Volunteer chaperone for troop*	*St. Louis, MO*
2009 *August* | **2007** *January*	**LIVEFEED** *Web developer*	*St. Louis, MO*
2005 *August* | *June*	**MISSOURI PUBLIC INTEREST RESEARCH GROUP** *Canvasser*	*St. Louis, MO*
2001 *June* | *January*	**EVERGREEN VETERINARY HOSPITAL** *Vet technician assistant*	*Kirkland, WA*

AWARDS & SCHOLARSHIPS

2025	**ORANGE COAST COLLEGE** *Garrison Fellow*	*Costa Mesa, CA*
2025	**COMMUNITY COLLEGE LEAGUE OF CALIFORNIA** *Phi Theta Kappa All-California Academic Award, First Team*	*Sacramento, CA*
2025	**COASTLINE COLLEGE** *Associated Student Government Career & Technical Merit Scholarship*	*Fountain Valley, CA*
2025	**COASTLINE COLLEGE** *Herman Tate Endowment*	*Fountain Valley, CA*
2024	**NATIONAL SCIENCE FOUNDATION** *Scholarships in Science, Technology, Engineering, & Math (S-STEM) Grant*	*Alexandria, VA*

2024	**JEANNETTE RANKIN FOUNDATION**	*Athens, GA*

Jeannette Rankin National Scholar

2024	**ORANGE COAST COLLEGE FOUNDATION**	*Costa Mesa, CA*

Peter Christian Hernandez Memorial Scholarship Award

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

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/