

CHER SCARLETT

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EDUCATION

2026 SANTA BARBARA CITY COLLEGE

May CLUBS: $\Phi\Theta\K$, Astronomy Club, Women for Success

| MAJOR: Physics, Mathematics, & Astronomy

2024 GPA: 4.0; *With Honors*

September

2026 CALIFORNIA COMMUNITY COLLEGE CONSORTIUM

May Orange Coast | Golden West | Coastline | Lake Tahoe | Irvine Valley | Pasadena City

| CLUBS: Astronomy Club (*Treasurer*), STEM Club (*Outreach Manager*), MESA, Math

2024 & Science Club (*President*)

January SOCIETIES: $\Phi\Theta\K$, $\text{A}\Gamma\Sigma$, Society of Physics Students, American Physical Society, STEP

UP Community

GPA: 4.0; *With Honors*

RELEVANT COURSEWORK

Introductory Astronomy (Honors) | Cosmology | Machine Learning for Physics & Astronomy | Compact Objects & Gravitational Waves | Introductory Geographic Information Systems | Single & Multivariable Calculus | Marine Biology | Mechanics of Solids & Fluids | General Chemistry | California Naturalist Program | Introductory Astrophysics (Honors) | Heat, Light, & Modern Physics | Fundamentals of Computer Science | Oceanography

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)

ACADEMIC & RESEARCH EXPERIENCES

2024 CALTECH | PASADENA CITY COLLEGE

Simulating eXtreme Spacetimes (SXS)

Modeling Black Hole Mergers | Independent Study Research | Faculty Advisor: 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

EMPLOYMENT EXPERIENCES

- Current **CALTECH** *Pasadena, CA*
 | *Research Assistant, Planetary Sciences Department*
 2024 *Science Communication Intern, NASA-JPL Lunar Trailblazer Mission*
 November
- Current **ORANGE COAST COLLEGE PLANETARIUM** *Costa Mesa, CA*
 | *Presenter*
 2024
 May

TEACHING

- 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 April 2017 November	STARBUCKS COFFEE COMPANY <i>Lead Software Engineer, Web & Mobile</i>	<i>Seattle, WA</i>
2017 August 2016 August	WORLD WIDE TECHNOLOGY <i>Senior Software Engineer</i>	<i>St. Louis, MO</i>
2016 August 2015 August	ACTIVISION BLIZZARD <i>Software Engineer, Web & Mobile</i>	<i>Irvine, CA</i>
2015 August 2011 November	USA TODAY <i>Senior Developer, New and Emerging Technologies</i>	<i>McLean, VA</i>
2011 November 2008 January	NEUTRINO, INC <i>Front End Developer</i>	<i>Seattle, WA</i>
2008 January 2007 May	LUXURYREALESTATE.COM <i>Front End Developer</i>	<i>Seattle, WA</i>

VOLUNTEER EXPERIENCES

Current 2021 October	COWORKER SOLIDARITY FUND <i>Committee Member</i>	<i>Annapolis, MD</i>
2024 November	DEMOCRATIC NATIONAL COMMITTEE <i>Phone Bank Operator</i>	<i>Washington, DC</i>
2024 October	NEWPORT-MESA COLLEGE & CAREER FAIR <i>Booth Operator for Coastline College & MESA</i>	<i>Costa Mesa, CA</i>
2024 September	EXPLORE CALTECH <i>Booth Operator for Pasadena City College Physics & Astronomy</i>	<i>Pasadena CA</i>
2024 May	BOLSA CHICA CONSERVANCY <i>Invasive Species Removal</i>	<i>Huntington Beach, CA</i>

2024	SAN DIEGO COAST KEEPER	<i>San Diego, CA</i>
May	<i>Water Quality Testing</i>	
2024	SURFRIDER FOUNDATION	<i>San Clemente, CA</i>
June	<i>Beach Cleanup</i>	
January		
2016	ORANGE COUNTY PROBATION DEPARTMENT	<i>Santa Ana, CA</i>
August	<i>At-risk youth mentor</i>	
2015		
August		
2016	MINDMAKERS	<i>Pasadena, CA</i>
August	<i>Youth mentor & web developer</i>	
2015		
August		
2014	KABOOM!	<i>Costa Mesa, CA</i>
August	<i>Playground builder</i>	
2014	YMCA	<i>St. Louis, MO</i>
August	<i>Volunteer for Cheer team</i>	
January		
2014	GIRL SCOUTS OF AMERICA	<i>St. Louis, MO</i>
August	<i>Volunteer chaperone for troop</i>	
January		
2009	LIVEFEED	<i>St. Louis, MO</i>
August	<i>Web developer</i>	
2007		
January		
2005	MISSOURI PUBLIC INTEREST RESEARCH GROUP	<i>St. Louis, MO</i>
August	<i>Canvasser</i>	
June		
2001	EVERGREEN VETERINARY HOSPITAL	<i>Kirkland, WA</i>
June	<i>Vet technician assistant</i>	
January		

AWARDS & SCHOLARSHIPS

2024	NATIONAL SCIENCE FOUNDATION	<i>Alexandria, VA</i>
	<i>Scholarships in Science, Technology, Engineering, & Math (S-STEM) Grant</i>	

2024 JEANNETTE RANKIN FOUNDATION

Jeannette Rankin National Scholar

Athens, GA

2024 ORANGE COAST COLLEGE FOUNDATION

Peter Christian Hernandez Memorial Scholarship Award

Costa Mesa, CA

PUBLICATIONS

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/>