

# CHER SCARLETT

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## EDUCATION

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### 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

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Observational Astronomy | 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) | Stellar Astronomy | Heat, Light, & Modern Physics | Fundamentals of Computer Science

## SKILLS

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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

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### 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

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- 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*  
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 January

## ENGINEERING

- 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 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>WORLDWIDE 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   2008 January	<b>NEUTRINO, INC</b> <i>Front End Developer</i>	<i>Seattle, WA</i>
2008 January   2007 May	<b>LUXURYREALESTATE.COM</b> <i>Front End Developer</i>	<i>Seattle, WA</i>

## VOLUNTEER EXPERIENCES

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

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

## AWARDS & SCHOLARSHIPS

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2024	<b>NATIONAL SCIENCE FOUNDATION</b>	<i>Alexandria, VA</i>
	<i>Scholarships in Science, Technology, Engineering, &amp; 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

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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>

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/>