

# 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 | Gavilan

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

2024 & Science Club (*President*)

January SOCIETIES:  $\Phi\Theta\K$ ,  $\text{AF}\Sigma$ ,  $\Sigma\text{A}\Pi$ , Society of Physics Students, American Physical Society, American Geophysical Union, American Astronomical Society, STEP UP Community, American Association of University Women

GPA: 4.0; *With Honors*

## RELEVANT COURSEWORK

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Introductory Astronomy (Honors) | Cosmology | Machine Learning for Physics & Astronomy | Single (Honors) & Multivariable Calculus | Discrete Mathematics | 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

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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) | IDL (Beginner)

## ACADEMIC & RESEARCH EXPERIENCES

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### 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 THE COMPUTATIONAL RESEARCH ACCESS NETWORK (CRANE) | NSF

*Computational Research Methods for Plasma Physics & Sciences Virtual Seminar*

*Magnetohydrodynamics with FLASH & 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

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- 2025 **NASA Infrared Telescope Facility (IRTF)** *Mauna Kea, HI*  
*4 nights; 3.2m; 0.8-5.3 microns*

## EMPLOYMENT EXPERIENCES

- Current **CALTECH** *Pasadena, CA*  
 | *Research Assistant, Planetary Sciences Department*  
 2024 *Science Communication Intern, NASA-JPL Lunar Trailblazer Mission*  
 November *Advisor: Dr. Bethany Ehlmann*
- 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	<b>CONTROLZEE, INC</b>	<i>San Jose, CA</i>
<i>April</i>	<i>Senior Software Engineer</i>	
2022		
<i>March</i>		
2021	<b>APPLE, INC</b>	<i>Cupertino, CA</i>
<i>November</i>	<i>Principal Software Engineer, Global Security Tools</i>	
2020		
<i>April</i>		
2020	<b>WEBFLOW</b>	<i>San Francisco, CA</i>
<i>April</i>	<i>Senior Software Engineer, Design System &amp; Core Engine</i>	
2019		
<i>April</i>		
2019	<b>STARBUCKS COFFEE COMPANY</b>	<i>Seattle, WA</i>
<i>April</i>	<i>Lead Software Engineer, Web &amp; Mobile</i>	
2017		
<i>November</i>		
2017	<b>WORLD WIDE TECHNOLOGY</b>	<i>St. Louis, MO</i>
<i>August</i>	<i>Senior Software Engineer</i>	
2016		
<i>August</i>		
2016	<b>ACTIVISION BLIZZARD</b>	<i>Irvine, CA</i>
<i>August</i>	<i>Software Engineer, Web &amp; Mobile</i>	
2015		
<i>August</i>		
2015	<b>USA TODAY</b>	<i>McLean, VA</i>
<i>August</i>	<i>Senior Developer, New and Emerging Technologies</i>	
2011		
<i>November</i>		
2011	<b>NEUTRINO, INC</b>	<i>Seattle, WA</i>
<i>November</i>	<i>Front End Developer</i>	
2008		
<i>January</i>		
2008	<b>LUXURYREALESTATE.COM</b>	<i>Seattle, WA</i>
<i>January</i>	<i>Front End Developer</i>	
2007		
<i>May</i>		

# VOLUNTEER EXPERIENCES

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Current   2021 October	<b>COWORKER SOLIDARITY FUND</b> <i>Committee Member</i>	Annapolis, MD
2024 December	<b>MESA CAMPUS COUNCIL</b> <i>Panelist</i>	Newport Beach, CA
2024 November	<b>DEMOCRATIC NATIONAL COMMITTEE</b> <i>Phone Bank Operator</i>	Washington, DC
2024 October	<b>NEWPORT-MESA COLLEGE &amp; CAREER FAIR</b> <i>Booth Operator for Coastline College &amp; MESA</i>	Costa Mesa, CA
2024 September	<b>EXPLORE CALTECH</b> <i>Booth Operator for Pasadena City College Physics &amp; Astronomy</i>	Pasadena CA
2024 May	<b>BOLSA CHICA CONSERVANCY</b> <i>Invasive Species Removal</i>	Huntington Beach, CA
2024 May	<b>SAN DIEGO COAST KEEPER</b> <i>Water Quality Testing</i>	San Diego, CA
2024 June   January	<b>SURFRIDER FOUNDATION</b> <i>Beach Cleanup</i>	San Clemente, CA
2016 August   2015 August	<b>ORANGE COUNTY PROBATION DEPARTMENT</b> <i>At-risk youth mentor (OC GRIP)</i>	Santa Ana, CA
2016 August   2015 August	<b>MINDMAKERS</b> <i>Youth mentor &amp; web developer</i>	Pasadena, CA
2014 August	<b>KABOOM!</b> <i>Playground builder</i>	Costa Mesa, CA
2014 August   January	<b>YMCA</b> <i>Volunteer for Cheer team</i>	St. Louis, MO
2014 August   January	<b>GIRL SCOUTS OF AMERICA</b> <i>Volunteer chaperone for troop</i>	St. Louis, MO

2009	<b>LIVEFEED</b>	St. Louis, MO
August	Web developer	
2007		
January		
2005	<b>MISSOURI PUBLIC INTEREST RESEARCH GROUP</b>	St. Louis, MO
August	Canvasser	
June		
2001	<b>EVERGREEN VETERINARY HOSPITAL</b>	Kirkland, WA
June	Vet technician assistant	
January		

## AWARDS & SCHOLARSHIPS

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2025	<b>COMMUNITY COLLEGE LEAGUE OF CALIFORNIA</b>	Sacramento, CA
	<i>Phi Theta Kappa All-California Academic Award</i>	
2024	<b>NATIONAL SCIENCE FOUNDATION</b>	Alexandria, VA
	<i>Scholarships in Science, Technology, Engineering, &amp; Math (S-STEM) Grant</i>	
2024	<b>JEANNETTE RANKIN FOUNDATION</b>	Athens, GA
	<i>Jeannette Rankin National Scholar</i>	
2024	<b>ORANGE COAST COLLEGE FOUNDATION</b>	Costa Mesa, CA
	<i>Peter Christian Hernandez Memorial Scholarship Award</i>	

## 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/>