

# 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:  $\Phi\Theta\K$ ,  $\Lambda\Gamma\Sigma$ , Society of Physics Students, American Physical Society,

American Geophysical Union, American Astronomical Society, STEP UP Community

GPA: 4.0; *With Honors*

## RELEVANT COURSEWORK

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

## 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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### 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*

*Astronomy Data Analysis (ADA) Track*

### 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*

## 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* *Principal Investigator: 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 CONTROLZEE, INC** *San Jose, CA*  
*April* *Senior Software Engineer*  
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**2022**  
*March*

2021 November	<b>APPLE, INC</b> <i>Principal Software Engineer, Global Security Tools</i>	<i>Cupertino, CA</i>
2020 April		
2020 April	<b>WEBFLOW</b> <i>Senior Software Engineer, Design System &amp; Core Engine</i>	<i>San Francisco, CA</i>
2019 April		
2019 April	<b>STARBUCKS COFFEE COMPANY</b> <i>Lead Software Engineer, Web &amp; Mobile</i>	<i>Seattle, WA</i>
2017 November		
2017 August	<b>WORLD WIDE TECHNOLOGY</b> <i>Senior Software Engineer</i>	<i>St. Louis, MO</i>
2016 August		
2016 August	<b>ACTIVISION BLIZZARD</b> <i>Software Engineer, Web &amp; Mobile</i>	<i>Irvine, CA</i>
2015 August		
2015 August	<b>USA TODAY</b> <i>Senior Developer, New and Emerging Technologies</i>	<i>McLean, VA</i>
2011 November		
2011 November	<b>NEUTRINO, INC</b> <i>Front End Developer</i>	<i>Seattle, WA</i>
2008 January		
2008 January	<b>LUXURYREALESTATE.COM</b> <i>Front End Developer</i>	<i>Seattle, WA</i>
2007 May		

## VOLUNTEER EXPERIENCES

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Current	<b>COWORKER SOLIDARITY FUND</b>	<i>Annapolis, MD</i>
2021 October	<i>Committee Member</i>	

2024 December	<b>MESA CAMPUS COUNCIL</b> <i>Panelist</i>	<i>Newport Beach, CA</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>Booth Operator for Coastline College &amp; MESA</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 May	<b>SAN DIEGO COAST KEEPER</b> <i>Water Quality Testing</i>	<i>San Diego, CA</i>
2024 June   January	<b>SURFRIDER FOUNDATION</b> <i>Beach Cleanup</i>	<i>San Clemente, CA</i>
2016 August   2015 August	<b>ORANGE COUNTY PROBATION DEPARTMENT</b> <i>At-risk youth mentor</i>	<i>Santa Ana, CA</i>
2016 August   2015 August	<b>MINDMAKERS</b> <i>Youth mentor &amp; web developer</i>	<i>Pasadena, CA</i>
2014 August	<b>KABOOM!</b> <i>Playground builder</i>	<i>Costa Mesa, CA</i>
2014 August   January	<b>YMCA</b> <i>Volunteer for Cheer team</i>	<i>St. Louis, MO</i>
2014 August   January	<b>GIRL SCOUTS OF AMERICA</b> <i>Volunteer chaperone for troop</i>	<i>St. Louis, MO</i>
2009 August   2007 January	<b>LIVEFEED</b> <i>Web developer</i>	<i>St. Louis, MO</i>

2005	MISSOURI PUBLIC INTEREST RESEARCH GROUP	St. Louis, MO
August	Canvasser	
June		
2001	EVERGREEN VETERINARY HOSPITAL	Kirkland, WA
June	Vet technician assistant	
January		

## AWARDS & SCHOLARSHIPS

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

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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/>