

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 | 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

Introductory Astronomy (Honors) | 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

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

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 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 | EARTHSOPE 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 *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*
 |
January

ENGINEERING

- 2023 CONTROLZEE, INC** *San Jose, CA*
April *Senior Software Engineer*
 |
2022
March

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

VOLUNTEER EXPERIENCES

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

2024 <i>December</i>	MESA CAMPUS COUNCIL <i>Panelist</i>	<i>Newport Beach, CA</i>
2024 <i>November</i>	DEMOCRATIC NATIONAL COMMITTEE <i>Phone Bank Operator</i>	<i>Washington, DC</i>
2024 <i>October</i>	NEWPORT-MESA COLLEGE & CAREER FAIR <i>Booth Operator for Coastline College & MESA</i>	<i>Costa Mesa, CA</i>
2024 <i>September</i>	EXPLORE CALTECH <i>Booth Operator for Pasadena City College Physics & Astronomy</i>	<i>Pasadena CA</i>
2024 <i>May</i>	BOLSA CHICA CONSERVANCY <i>Invasive Species Removal</i>	<i>Huntington Beach, CA</i>
2024 <i>May</i>	SAN DIEGO COAST KEEPER <i>Water Quality Testing</i>	<i>San Diego, CA</i>
2024 <i>June</i> <i>January</i>	SURFRIDER FOUNDATION <i>Beach Cleanup</i>	<i>San Clemente, CA</i>
2016 <i>August</i> 2015 <i>August</i>	ORANGE COUNTY PROBATION DEPARTMENT <i>At-risk youth mentor (OC GRIP)</i>	<i>Santa Ana, CA</i>
2016 <i>August</i> 2015 <i>August</i>	MINDMAKERS <i>Youth mentor & web developer</i>	<i>Pasadena, CA</i>
2014 <i>August</i>	KABOOM! <i>Playground builder</i>	<i>Costa Mesa, CA</i>
2014 <i>August</i> <i>January</i>	YMCA <i>Volunteer for Cheer team</i>	<i>St. Louis, MO</i>
2014 <i>August</i> <i>January</i>	GIRL SCOUTS OF AMERICA <i>Volunteer chaperone for troop</i>	<i>St. Louis, MO</i>
2009 <i>August</i> 2007 <i>January</i>	LIVEFEED <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

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

- 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/>