

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: $\Phi\Theta\K$, $\Lambda\Gamma\Sigma$, $\Sigma\Lambda\Pi$, 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 |
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

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

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
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January

ENGINEERING

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

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| 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

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

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| 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> |

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

AWARDS & SCHOLARSHIPS

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| 2025 | COMMUNITY COLLEGE LEAGUE OF CALIFORNIA | Sacramento, CA |
| | Phi Theta Kappa All-California Academic Award | |
| 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/>