

CHER SCARLETT

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EDUCATION

2026 **SANTA BARBARA CITY COLLEGE**

May | **ORANGE COAST COLLEGE**

GPA: 4.0

| Associate of Science in Physics, Mathematics, and Astronomy

2024

August Honors Program, Astronomy Club (*Treasurer*), STEM Club (*Outreach Manager*), MESA, Math & Science Club (*President*), Women for Success, Associated Student Government (*Senator of Distance Learning*), ΦΘΚ (*Phi Theta Kappa*), Society of Physics Students, American Physical Society, American Nuclear Society, American Geophysical Union, American Association of University Women

SKILLS

Python | Java | Groovy | Ruby | PHP | C | JavaScript | CSS | HTML | ArcGIS | IDL | Fortran

ACADEMIC & RESEARCH EXPERIENCES

2025 **INSTITUTE FOR STUDENT ASTRONOMICAL RESEARCH (INSTAR) | LCO**

Las Cumbres Observatory (LCO) Network

Astronomy Research Seminar - Double Star Astrometry | Advisor: Dr. Rachel Freed

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 **COMPUTATIONAL RESEARCH ACCESS NETWORK | BRYN MAWR | NSF**

Computational Research Methods for Plasma Physics & Sciences Virtual Seminar

Magnetohydrodynamics with FLASH, Monte Carlo Method, & 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 | 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

OBSERVATION EXPERIENCES

2025 NASA Infrared Telescope Facility (IRTF) *Mauna Kea, HI*
2 nights; 3.2m; 0.8-5.3 microns (SPEX & MIRSI)
Observing Jupiter in Support of Juno Mission

2025 Lockheed Martin Ignite Ground System (IGS) *Waterton, CO*
4 nights; 8-9 kHz
Monitoring for Lunar Trailblazer (LTB) Signal

2025 Fukui University of Technology (FUT) Awara Space Center *Fukui, JP*
2 nights; 8-9 kHz
Monitoring for Lunar Trailblazer (LTB) Signal

2025 Australia Telescope National Facility *New South Wales, AU*
6 nights; 8-9 kHz (Mopra)
Monitoring for Lunar Trailblazer (LTB) Signal

EMPLOYMENT EXPERIENCES

2025 CALTECH *Pasadena, CA*
June Research Assistant, Planetary Sciences Department
| Science Communication Intern, NASA-JPL Lunar Trailblazer Mission
2024 *Advisor: Dr. Bethany Ehlmann*
November

2025 ORANGE COAST COLLEGE PLANETARIUM *Costa Mesa, CA*
May Presenter
|
2024
May

TEACHING & TUTORING

2025 EARTHSCOPE | MIAMI UNIVERSITY | NSF *Miami, OH*
September Teaching Assistant
| Seismology Skill Building Workshop
June

2018 UNIVERSITY OF WASHINGTON *Seattle, WA*
May Instructor
| Introductory Web Development
January

ENGINEERING

2023 <i>April</i>	CONTROLZEE, INC <i>Senior Software Engineer</i>	<i>San Jose, CA</i>
2022 <i>March</i>		
2021 <i>November</i>	APPLE, INC <i>Principal Software Engineer, Global Security Tools</i>	<i>Cupertino, CA</i>
2020 <i>April</i>		
2020 <i>April</i>	WEBFLOW <i>Senior Software Engineer, Design System & Core Engine</i>	<i>San Francisco, CA</i>
2019 <i>April</i>		
2019 <i>April</i>	STARBUCKS COFFEE COMPANY <i>Lead Software Engineer, Web & Mobile</i>	<i>Seattle, WA</i>
2017 <i>November</i>		
2017 <i>August</i>	WORLD WIDE TECHNOLOGY <i>Senior Software Engineer</i>	<i>St. Louis, MO</i>
2016 <i>August</i>		
2016 <i>August</i>	ACTIVISION BLIZZARD <i>Software Engineer, Web & Mobile</i>	<i>Irvine, CA</i>
2015 <i>August</i>		
2015 <i>August</i>	USA TODAY <i>Senior Developer, New and Emerging Technologies</i>	<i>McLean, VA</i>
2011 <i>November</i>		
2011 <i>November</i>	NEUTRINO, INC <i>Front End Developer</i>	<i>Seattle, WA</i>
2008 <i>January</i>		
2008 <i>January</i>	LUXURYREALESTATE.COM <i>Front End Developer</i>	<i>Seattle, WA</i>
2007 <i>May</i>		

VOLUNTEER EXPERIENCES

Current 2021 October	COWORKER SOLIDARITY FUND <i>Committee Member</i>	Annapolis, MD
2025 April	MESA STEM DAY <i>Workshop Assistant</i>	Newport Beach, CA
2024 December	MESA CAMPUS COUNCIL <i>Panelist</i>	Newport Beach, CA
2024 November	DEMOCRATIC NATIONAL COMMITTEE <i>Phone Bank Operator</i>	Washington, DC
2024 October	NEWPORT-MESA COLLEGE & CAREER FAIR <i>Booth Operator for Coastline College & MESA</i>	Costa Mesa, CA
2024 September	EXPLORE CALTECH <i>Booth Operator for Pasadena City College Physics & Astronomy</i>	Pasadena CA
2024 May	BOLSA CHICA CONSERVANCY <i>Invasive Species Removal</i>	Huntington Beach, CA
2024 May	SAN DIEGO COAST KEEPER <i>Water Quality Testing</i>	San Diego, CA
2024 June January	SURFRIDER FOUNDATION <i>Beach Cleanup</i>	San Clemente, CA
2016 August 2015 August	ORANGE COUNTY PROBATION DEPARTMENT <i>At-risk youth mentor (OC GRIP)</i>	Santa Ana, CA
2016 August 2015 August	MINDMAKERS <i>Youth mentor & web developer</i>	Pasadena, CA
2009 August 2007 January	LIVEFEED <i>Web developer</i>	St. Louis, MO
2005 August June	MISSOURI PUBLIC INTEREST RESEARCH GROUP <i>Canvasser</i>	St. Louis, MO

AWARDS & SCHOLARSHIPS

2025	ORANGE COAST COLLEGE <i>Garrison Fellow</i>	<i>Costa Mesa, CA</i>
2025	COMMUNITY COLLEGE LEAGUE OF CALIFORNIA <i>Phi Theta Kappa All-California Academic Award, First Team</i>	<i>Sacramento, CA</i>
2025	COASTLINE COLLEGE <i>Associated Student Government Career & Technical Merit Scholarship</i>	<i>Fountain Valley, CA</i>
2025	COASTLINE COLLEGE <i>Herman Tate Endowment</i>	<i>Fountain Valley, CA</i>
2024	NATIONAL SCIENCE FOUNDATION <i>Scholarships in Science, Technology, Engineering, & Math (S-STEM)</i>	<i>Alexandria, VA</i>
2024	JEANNETTE RANKIN FOUNDATION <i>Jeannette Rankin National Scholar</i>	<i>Athens, GA</i>
2024	ORANGE COAST COLLEGE FOUNDATION <i>Peter Christian Hernandez Memorial Scholarship Award</i>	<i>Costa Mesa, CA</i>

PUBLICATIONS

- Scarlett, C. (2025). Water into Doom: Balancing AI with Climate Action & Environmental Costs at the Water-Energy Nexus. *The Honors Transfer Council of California Building Bridges Research Conference*.
- 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>
- Carlson, G., Roginsky, J., & Scarlett, C. (2022, February 6). Washington can be a leader on protecting sexual harassment, assault survivors. *The Olympian*.
<https://www.theolympian.com/opinion/op-ed/article258066068.html>
- 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/>