CHER SCARLETT

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EDUCATION

2026 May	**SANTA BARBARA CITY COLLEGE**	
	ORANGE COAST COLLEGE	GPA: 4.0
2024 August	Associate of Science in Physics, Mathematics, and Astronomy	

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

2025   **ORANGE COAST COLLEGE**
Compact Objects and Gravitational Waves | Independent Study | Advisor: Prof. Jessica Asbell

2024   **UNIVERSITY OF ILLINOIS | GRAVITY THEORY TRUST**
EFTs, Gravity, and Fluid Dynamics: Progress, Challenges, and Emerging Opportunities Workshop

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

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

TEACHING & TUTORING

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

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

ENGINEERING

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

VOLUNTEER EXPERIENCES

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

Awards & Scholarships

2025	**ORANGE COAST COLLEGE**	*Costa Mesa, CA*

Garrison Fellow

2025	**COMMUNITY COLLEGE LEAGUE OF CALIFORNIA**	*Sacramento, CA*

Phi Theta Kappa All-California Academic Award, First Team

2025	**COASTLINE COLLEGE**	*Fountain Valley, CA*

Associated Student Government Career & Technical Merit Scholarship

2025	**COASTLINE COLLEGE**	*Fountain Valley, CA*

Herman Tate Endowment

2024	**NATIONAL SCIENCE FOUNDATION**	*Alexandria, VA*

Scholarships in Science, Technology, Engineering, & Math (S-STEM)

2024	**JEANNETTE RANKIN FOUNDATION**	*Athens, GA*

Jeannette Rankin National Scholar

2024	**ORANGE COAST COLLEGE FOUNDATION**	*Costa Mesa, CA*

Peter Christian Hernandez Memorial Scholarship Award

2022	**HACKER NOON**	*Edwards, CO*

Developer Defying Patriarchy (While Being an Awesome Developer) Noonie

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/