CHER SCARLETT

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EDUCATION

2026	**CALIFORNIA COMMUNITY COLLEGES**	GPA: 4.0
May	Coastline College	A.S., Mathematics; A.A., Art & Humanities	
|	Fullerton College	A.S., Oceanography & Meteorology	
2023	Orange Coast College	A.S., Astronomy & Earth Science	
August	Santa Barbara City College	A.S., Physics; A.A., Liberal Arts: Science and Mathematics	

Extracurriculars: Honors Program, Astronomy Club (*Treasurer*), STEM Club (*Outreach Manager*), MESA, EOPS, Math & Science Club (*President*), ΦΘΚ (*Phi Theta Kappa*)
Professional Memberships: Institute of Physics, Society of Physics Students, American Physical Society, American Meteorological Society, American Geophysical Union

SKILLS

Python | Java | Groovy | Ruby | PHP | C | JavaScript | CSS | HTML| IDL | Fortran
LaTeX | Mathematica | MATLAB | Jupyter Notebooks | AstroImageJ | ArcGIS

RESEARCH EXPERIENCES

2026 **CUESTA COLLEGE**
Advisor: Dr. James Eickemeyer

2025 **INSTITUTE FOR STUDENT ASTRONOMICAL RESEARCH (INSTAR)**
Las Cumbres Observatory (LCO) Network
Astronomy Research Seminar | Advisor: Dr. Rachel Freed

2025 **NASA JET PROPULSION LABORATORY (NASA-JPL)**
NASA Juno Mission
Analysis and Archiving of Near- and Mid-Infrared Observations of Outer Planet Atmospheres
Planetary and Exoplanetary Atmospheres Group
Student Independent Research Internship (SIRI) | Advisor: Dr. Glenn S. Orton

2025 **CALIFORNIA INSTITUTE OF TECHNOLOGY (CALTECH)**
\|
2024 *NASA-JPL Lunar Trailblazer Mission*
Planetary Sciences Department
Research Assistant, Science Communication Intern | Advisor: Dr. Bethany Ehlmann

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

ACADEMIC & WORKSHOP EXPERIENCES

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 | 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 **Caltech Palomar Observatory - Hale Telescope** *Palomar Mountain, CA*
2 nights; 5.1 m; 1 - 2.5 μm (PHARO)
Observing Jupiter in Support of Juno Mission (NASA-JPL)

2025 **Las Cumbres Observatory (LCO) - Teide Observatory** *Tenerife, ES*
2 nights; 0.35 m; 0.4 - 0.7 μm (QHY600)
Astrometry of double stars

2025 **LCO - South African Astronomical Observatory** *Sutherland, ZA*
1 nights; 0.35 m; 0.4 - 0.7 μm (QHY600)
Astrometry of double stars

2025 **NASA Infrared Telescope Facility (IRTF)** *Mauna Kea, HI*
4 nights; 3.2 m; 0.8 - 5.3 μm (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
May
|
2024
May | **ORANGE COAST COLLEGE PLANETARIUM**
Presenter | *Costa Mesa, CA* |

TEACHING & TUTORING

| 2025
September
|
May | **EARTHSCOPE CONSORTIUM \| MIAMI UNIVERSITY**
Teaching Assistant
Seismology Skill Building Workshop | *Miami, OH* |
| 2018
May
|
January | **UNIVERSITY OF WASHINGTON**
Adjunct Instructor
Introductory Web Development (Extension) | *Seattle, WA* |

ENGINEERING

2023 April 	 2022 March	**CONTROLZEE, INC** *Senior Software Engineer*	*San Jose, CA*
2021 November 	 2020 April	**APPLE, INC** *Principal Software Engineer, Global Security Tools*	*Cupertino, CA*
2020 April 	 2019 April	**WEBFLOW** *Senior Software Engineer, Design System & Core Engine*	*San Francisco, CA*
2019 April 	 2017 November	**STARBUCKS COFFEE COMPANY** *Lead Software Engineer, Web & Mobile*	*Seattle, WA*
2017 August 	 2016 August	**WORLD WIDE TECHNOLOGY** *Senior Software Engineer*	*St. Louis, MO*
2016 August 	 2015 August	**ACTIVISION BLIZZARD** *Software Engineer, Web & Mobile*	*Irvine, CA*

2015 August	**USA TODAY**	McLean, VA
| 2011 November	*Senior Developer, New and Emerging Technologies*	

2011 November	**NEUTRINO, INC**	Seattle, WA
| 2008 January	*Front End Developer*	

2008 January	**LUXURYREALESTATE.COM**	Seattle, WA
| 2007 May	*Front End Developer*	

VOLUNTEER EXPERIENCES

2021 October	**COWORKER SOLIDARITY FUND**	Annapolis, MD
	Committee Member	

2025 October	**COMPUTATIONAL RESEARCH ACCESS NETWORK**	Fullerton, CA
	Teaching Assistant	

2025 April	**MESA STEM DAY**	Newport Beach, CA
	Workshop Assistant	

2024 December	**MESA CAMPUS COUNCIL**	Newport Beach, CA
	Panelist	

2024 November	**DEMOCRATIC NATIONAL COMMITTEE**	Washington, DC
	Phone Bank Operator	

2024 October	**NEWPORT-MESA COLLEGE & CAREER FAIR**	Costa Mesa, CA
	Booth Operator for Coastline College & MESA	

2024 September	**EXPLORE CALTECH**	Pasadena CA
	Booth Operator for Pasadena City College Physics & Astronomy	

2024 May	**BOLSA CHICA CONSERVANCY**	Huntington Beach, CA
	Invasive Species Removal	

2024 May	**SAN DIEGO COAST KEEPER**	San Diego, CA
	Water Quality Testing	

2023 August	**SURFRIDER FOUNDATION**	San Clemente, CA
	Beach Cleanup	

2015 August	**ORANGE COUNTY PROBATION DEPARTMENT**	Santa Ana, CA
	At-risk youth mentor (OC GRIP)	

2015 August	**MINDMAKERS**	Pasadena, CA
	Youth mentor & web developer	

AWARDS & SCHOLARSHIPS

2025	**AMERICAN INSTITUTE OF PHYSICS**	*College Park, MD*

TEAM-UP Together Scholar

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

Honor's List (Summer)

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

Garrison Fellow

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

All-California Academic Award, First Team
(unordered top 20 students)

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

Associated Student Government Career & Technical Merit Scholarship

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

Herman Tate Endowment

2025 2024	**JEANNETTE RANKIN FOUNDATION**	*Athens, GA*

Jeannette Rankin National Scholar

2025 2024	**NATIONAL SCIENCE FOUNDATION**	*Alexandria, VA*

Coastline College: Science, Technology, Engineering, & Math Scholar

2024	**COASTLINE COLLEGE**	*Fountain Valley, CA*

Honor's List (Fall)

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

Peter Christian Hernandez Memorial Scholarship Award

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

Honor's List (Spring)

2024	**GOLDEN WEST COLLEGE**	*Huntington Beach, CA*

Honor's List (Spring)

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

Developer Defying Patriarchy (While Being an Awesome Developer)
(Runner-up)

PUBLICATIONS

Scarlett, C. (2025). Lunar Trailblazer Interactive Model [Computer software]. *California Institute of Technology.* https://trailblazer.caltech.edu/spacecraft/index.html

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. (2025). Emmy Noether: A Woman on the Edge of [Space]Time. *Academia*.
https://www.academia.edu/144259985/Emmy_Noether_A_Woman_on_the_Edge_of_Space_Time

Scarlett, C. (2024). Remote seismology correlation and Mount St. Helens volcanology. *Seismology Skill Building Workshop*.
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/

Scarlett, C. (2008). sIFRvault [Computer software].