CHER SCARLETT

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EDUCATION

2026	**COAST COMMUNITY COLLEGE DISTRICT**	GPA: 4.0
May	Associate of Art & Science in Physics, Astronomy, Earth Sciences, and Mathematics	
|		
2023	Honors Program, Astronomy Club (*Treasurer*), STEM Club (*Outreach Manager*), MESA,	
August	EOPS, Math & Science Club (*President*), ΦΘΚ (*Phi Theta Kappa*), Society of Physics Students,	
	American Physical Society, American Meteorological Society, American Geophysical Union	

SKILLS

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

RESEARCH EXPERIENCES

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

2025   **NASA JET PROPULSION LABORATORY (JPL)**
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	**ORANGE COAST COLLEGE PLANETARIUM**	*Costa Mesa, CA*
|	*Presenter*	
2024 May		

TEACHING & TUTORING

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

2018
May
|
January

UNIVERSITY OF WASHINGTON   *Seattle, WA*
Instructor
Introductory Web Development

ENGINEERING

2023
April
|
2022
March

CONTROLZEE, INC   *San Jose, CA*
Senior Software Engineer

2021
November
|
2020
April

APPLE, INC   *Cupertino, CA*
Principal Software Engineer, Global Security Tools

2020
April
|
2019
April

WEBFLOW   *San Francisco, CA*
Senior Software Engineer, Design System & Core Engine

2019
April
|
2017
November

STARBUCKS COFFEE COMPANY   *Seattle, WA*
Lead Software Engineer, Web & Mobile

2017
August
|
2016
August

WORLD WIDE TECHNOLOGY   *St. Louis, MO*
Senior Software Engineer

2016
August
|
2015
August

ACTIVISION BLIZZARD   *Irvine, CA*
Software Engineer, Web & Mobile

2015
August
|
2011
November

USA TODAY   *McLean, VA*
Senior Developer, New and Emerging Technologies

2011
November
|
2008
January

NEUTRINO, INC   *Seattle, WA*
Front End Developer

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

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*

AWARDS & SCHOLARSHIPS

2025	**AMERICAN INSTITUTE OF PHYSICS**	*College Park, MD*
	TEAM-UP Together Scholar	

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	

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	**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) (Runner-up)	

PUBLICATIONS

Lunar Trailblazer Interactive Model. (2025). *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. (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/