Distinguished Alum Speaker: Dr. Lee Fairchild (MS '79 & PhD '85)

I started college as a pre-law major at UC Riverside, saw the error in those ways and changed to Economics. Then I transferred to UC Berkeley Business Administration. I took a Berkeley Hills Field Geology course as a science breadth class and fell in love. Encouragement from my professor helped me overcome my fear of science and I became a geology major.

I went on to UW, got an MS in structural geology under Darrel Cowan and PhD under Tom Dunne in...I'll call it "surficial volcanology": mudflows that came down the Toutle River during the 1980 Mt. St. Helens eruption.

Given that with my lack of common sense I knew I would not live long as a volcanologist, I chose an oil and gas career. I was more or less clueless about that career, but they taught me what I needed to know and I figured out the rest. I started as a structural geologist, became a seismic interpreter, morphed into fault seal, then into reservoir connectivity. In that career I worked and lived all over the world.

Since 2001 we have lived near Hood River, OR and I have independently consulted from there, working primarily in Oslo, Norway, Perth, Australia, and St. John's and Calgary, Canada. I still have a lot of frequent flyer miles. Now I work a whopping 1-3 weeks a year remotely from home for companies in Perth and Calgary.
Graduate Student Speaker: Taryn Black

Taryn Black is a PhD candidate in Earth and Space Sciences. She earned a B.S. in Earth and Space Sciences and in Physics from University of Washington in 2013, and a master’s in geophysics from Georgia Institute of Technology in 2016. Her past research experiences ranged from sea ice experiments to cosmogenic nuclide dating to volcanic eruption dynamics before she finally settled on modern glaciology for her PhD. In her current research she uses satellite images to map glacier change in Greenland and Alaska. She is also pursuing a Graduate Certificate in Climate Science from the Program on Climate Change, for which she has created a map-based narrative project about glacier change in Kenai Fjords National Park, Alaska. She interned for the park in the summer of 2020, which of course meant daydreaming about icy fjords from her living room in Seattle. Taryn has been heavily involved in department committees and activities throughout her PhD and was recently awarded the department’s Barksdale Distinguished Service Award. Taryn will be defending her PhD in July.

Undergraduate Student Speaker: McKenzie Carlson

McKenzie Carlson is receiving her Bachelor of Science in Earth and Space Sciences concentrating in physics with a physics minor. She is part of both the ESS Departmental Honors and University Interdisciplinary Honors programs. During her time at UW, McKenzie has been involved in a number of activities on campus. She has been an officer of Hiking Club at UW since her freshman year and this year she served as Treasurer for GeoClub. She has also served on the ESS Curriculum Committee as the Undergraduate Representative. McKenzie has participated in research with the Strömberg Lab since her freshman year, studying the effect of habitat on seed dispersal in grasses. She has presented this research at the UW Mary Gates Research Symposium, the Midcontinent Paleobotanical Colloquium, and the Botany conference. She also works for the Pacific Northwest Seismic Network in the Student Outreach position. After graduation, she will continue to work with PNSN during a gap year and hopes to attend graduate school to pursue a PhD in geophysics beginning in the fall of 2023.
College of the Environment Class of 2022 Gift

Honoring College of the Environment Class of 2022 Graduates
Congratulations to the Class of 2022! Believe it or not, it is graduation season. A time of year where we come together to celebrate our graduates and their many accomplishments here at UW and the College of the Environment. In appreciation of their contributions to enriching the College of the Environment community, the College is honoring our graduates through funding a project jointly with the Campus Sustainability Fund (CSF).

Based on the recommendation of our Student Advisory Council and a vote by our graduating students, the College will help fund the Fresh Food Recovery for the UW Food Pantry project. The UW Food Pantry is a student run organization that provides food to UW students, staff, and faculty at no cost to support those who are facing food insecurity. They provide produce and non-perishable food items and are currently expanding their efforts to glean food from campus dining locations and the UW Farm. This allows the Food Pantry to save food that would otherwise be thrown away due to its sell-by date. Through this initiative, over 5,000 pounds of ready to eat campus food was diverted from the landfill in a year. With our support and the Campus Sustainability Fund, the Food Pantry will purchase a new refrigerator that increases the storage for more fresh food and healthy nutritious options for community members and will continue to fund a gleaning coordinator position. We are excited for the expansion of the Food Pantry and the opportunity to increase the sustainability and well-being of our Husky community.

ESS Diversity Statement

The Department of Earth and Space Sciences (ESS) values diverse experiences and perspectives, the constructive expression of ideas, and the promotion of intellectual curiosity, creativity, and respect. We also believe that science is richer and the community is more vibrant when a diverse group of people is involved. We are proud of our efforts to recruit and support the success of students, staff, and faculty from all walks of life, regardless of their identity or background. We welcome everyone to ESS.
Doctor of Philosophy

Christian, John Erich M
(Summer 2020)
What sets the pace of glacier change in a warming world? Examining the roles of climate, geometry, and dynamics

Cuozzo, Nicolas P
(Spring 2021)
Novel studies of McMurdo Dry Valleys ice-cemented permafrost cores document chemical weathering in permafrost and the timing of Plio-Pleistocene glaciations

Ducellier, Ariane Laurence Claude
(Winter 2022)
Slow earthquakes: Tremor, low-frequency earthquakes and slow slip events

Hall, Kelley A
(Winter 2020)
Implications and Limitations of Tremor as a Proxy for Slow Slip

Huth, Alexander
(Spring 2020)
A generalized interpolation material point method and anisotropic creep damage model for shallow ice shelves

Kahle, Emma C
(Winter 2020)
Climate reconstructions from ice cores: New techniques to understand the information preserved in the South Pole ice core

Lahusen, Sean R
(Autumn 2019)
LANDSLIDES IN CASCADEA: USING GEOCHRONOMETRY AND SPATIAL ANALYSIS TO UNDERSTAND THE TIMING, TRIGGERING AND SPATIAL DISTRIBUTION OF SLOPE FAILURES IN THE PACIFIC NORTHWEST UNITED STATES
Lehmer, Owen R
(Spring 2020)
The Formation and Evolution of Habitable Worlds

Leung, Vivian
(Autumn 2019)
LARGE WOODY DEBRIS AND RIVER MORPHOLOGY IN SCOUL POOL FORMATION, DAM REMOVAL, AND DELTA FORMATION

McIntire, Michael Z
(Summer 2021)
On the kinematic and dynamic evolution of a magma mush: from liquidus to solidus.

Mueller, Megan
(Summer 2021)
From subduction to collision: sedimentary basin constraints on timescales and geodynamic drivers

Northway, Paige
(Spring 2020)
INNOVATIONS IN PULSED PLASMA THRUSTER TO ENABLE CUBESAT SCIENCE MISSIONS

O'Neil, Lauren P
(Spring 2022)
Micro-X-ray Fluorescence Mapping Data Analysis and interpretation

Schoettle-Greene, Philip
(Spring 2021)
Tectonics as recorded by thermochronometry, deformed datums, and submarine landscapes in western North America

Stone, Ian P
(Autumn 2020)
Constraining seismic hazard in the Pacific Northwest through observation and direct modeling of earthquakes
Thompson, Mika

(Winter 2022)

Using Local, Global, and Simulated Earthquakes to Inform Earthquake Resilience Efforts in the Pacific Northwest

Wilson, Paige K

(Winter 2022)

Vegetation and Environmental Change Across the Cretaceous-Paleogene (K/Pg) Boundary in northeastern Montana

Wray, Addien

(Spring 2022)

A Thermodynamic Analysis of Microbial Surface Chemistry and Metabolic Strategies
Master of Science

Alampay, Gabrielle Therese Bugayong (Spring 2022)  
Angel, Samuel (Summer 2020)  
Bourgeois, Christian (Summer 2020)  
Brutzkus, Pamela Ariel (Spring 2021)  
Bush, Chelsea (Winter 2020)  
Buyco, Michael Paul (Spring 2022)  
Chaussee, Cody Brandon (Spring 2021)  
Chiles, Brek Alan (Spring 2022)  
Chou, Charlie (Winter 2020)  
Delight, Jessica (Spring 2022)  
Doak, Suzanna (Spring 2021)  
Dunham, Eric (Autumn 2019)  
Freeman, Elise (Winter 2021)  
Gore, Joni (Winter 2021)  
Hatfield, Mitchell (Winter 2020)  
Hill, Monica R (Spring 2022)  
Horlings, Brita (Autumn 2019)  
Jensen, Cole Alexander (Winter 2020)  
Jorgenson, Dianna (Winter 2021)  
Kellermann, Brogan (Winter 2022)  
King, Esten Jacob (Winter 2020)  
Lambert, Crystal (Autumn 2020)  
Littell, Virginia Heidi (Autumn 2019)  
MacKay, David (Spring 2021)  
Maloney, Devin Alexis (Autumn 2019)  
Meixnerova, Jana (Summer 2020)  
Myers, Emma Kathleen (Summer 2021)  
Perkins, Jacklyn (Autumn 2021)  
Prasad, Kalpana Venu (Winter 2022)  
Richwine, Kathryn (Winter 2020)  
Russell, Luke Austin (Winter 2020)  
Sarieddine, Nicole (Winter 2021)  
Sherrod, Joseph (Winter 2020)  
Talaia-Murray, Manique (Spring 2021)  
Tunelle, Alyssa Elaine (Winter 2021)  
Williams, Seth (Spring 2022)
Bachelor of Arts & Bachelor of Science

Adams, Andrew James (Winter 2020)
Aguilar, Edgar Santos (Spring 2021)
Ahmad, Muhamad Nazhirin Bin (Summer 2021)
An, Han Sol (Autumn 2019)
Anderson, Richard Derek (Summer 2021)
Andres-Gaspar, Hector (Spring 2020)
Applegate, Kyle Steven (Winter 2020)
Apreza, Isaac (Summer 2021)
Arcilla, Jainar Jones Aguilar (Winter 2021)
Armstrong, Edward Aaron (Autumn 2020)
Baird, Christopher (Winter 2020)
Baker, Noah Robert (Spring 2020)
Baktharatchagan, Kubendiran (Winter 2020)
Barker, Kevin James (Summer 2021)
Barrett-Caasi, Olivia Jane (Summer 2022)
Beliaeff, Eva Nicole (Summer 2020)
Benuska, Nicholas (Spring 2022)
Berg, Anna Danielle (Summer 2022)
Berg, Tyler Alan (Spring 2022)
Bhardwaj, Pranav (Spring 2020)
Bice, Brooke Laureen (Spring 2022)
Bish, Quentin Lewis (Winter 2022)
Biyani, Surabhi C (Spring 2021)
Bol, Cameron J (Spring 2022)
Bonner, Madeline Dianne (Spring 2020)
Brailsford, Colton Palmer (Spring 2021)
Briggs, Trevor James (Spring 2022)
Britt, Brenden James (Winter 2021)
Brock, Braden James (Winter 2022)
Brown, Tobias (Spring 2022)
Bruner, Jeffrey Marshall (Autumn 2019)
Busch, Kailey Anne (Summer 2021)
Buyco, Michael Paul (Summer 2020)
Cai, Zhuocheng (Winter 2022)
Camal Sado, Ian Carlos (Summer 2021)
Capirala, Ashika (Spring 2021)
Carlson, Mckenzie M (Spring 2022)
Carson, Helen Claire (Spring 2022)
Chan, Shu Ki (Spring 2022)
Chang, Tiger R (Spring 2021)
Chen, Yuting (Winter 2020)
Chiang, Tai-Jung (Spring 2022)
Childers, Jacob R (Summer 2020)
Chiles, Brek Alan (Autumn 2019)
Chinn, Jeffrey Aldon (Winter 2020)
Ciezadlo, William (Autumn 2019)
Clairmont, Jacob D (Winter 2021)
Coates, Bennett Robert (Spring 2022)
Conway, Nolan Charles (Autumn 2019)
Craggs, Miles Marshall (Winter 2020)
Crisp, Malak Astrophel (Winter 2022)
Cross, Jason Riley (Spring 2022)
Crowder, Cooper Jackson (Spring 2022)
Cummings, John Casey (Summer 2021)
Daniels, Ryan (Winter 2022)
Davidson, Virginia Carolyn (Summer 2022)
Davis, Sebastian W (Autumn 2020)
De Jong, Zale (Summer 2020)
Delight, Jessica (Winter 2020)
Di Leonardo, Teresa (Summer 2020)
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Wan, Xinyu (Summer 2021)
Wang, Luyu Martin (Winter 2022)
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Westlund, Savannah Rose (Spring 2022)
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Yao, Xiaohan (Spring 2022)
Yates, Caleb Bryan (Winter 2022)
Yetter, Andrew Riley (Autumn 2019)
Zhang, Yuchi (Summer 2020)
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