



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 land fill 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 CASCADIA: 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 SCOUR 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*)

Tunnelle, 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*)

Cie zadlo, 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*)

Diciro, Alexandra Nicole (*Spring 2022*)
Diehr, Julius Dickson (*Winter 2020*)
Dimitrova, Tzvetelina Anguelova (*Spring 2021*)
Do, Kim-Long Tran (*Spring 2021*)
Dodd, Jacqueline Elizabeth (*Spring 2020*)
Edouard, Shana Reka (*Summer 2020*)
Ferrie, Nicole Lauren (*Summer 2022*)
Flatt, Trevor Joel (*Autumn 2021*)
Forcos, Alexander N (*Autumn 2021*)
Frazier, Christopher Thomas (*Winter 2021*)
Frerichs, Jordan Elizabeth (*Summer 2020*)
Fulghum, Henry Z (*Winter 2020*)
Generoso, Jaylen (*Winter 2022*)
Hansen, Elizabeth L (*Spring 2020*)
Hanson, Chandler R (*Spring 2020*)
Haque, Shaan Saif (*Autumn 2021*)
Harris, Timothy Scott (*Winter 2020*)
Heffner, Michael Edward (*Winter 2021*)
Hermansen, Paige Adelle (*Summer 2020*)
Hiemstra, Rose S (*Autumn 2021*)
Hill, Kaitlyn Marie (*Summer 2020*)
Hill, Matthew Blayne (*Spring 2022*)
Hill, Monica R (*Winter 2020*)
Homolka, Khadijah Karrington (*Spring 2021*)
Hoover, Katherine Anne (*Autumn 2020*)
Horne, Gregory Christopher (*Autumn 2020*)
Hull, Sara Frances (*Spring 2020*)
Ifft, Melissa Alexandra (*Spring 2022*)
Ikeda, Catherine Shizuko (*Spring 2020*)
Iyer, Vibhu Srivatsa (*Summer 2020*)
Jackson, Amanda (*Summer 2022*)
Jessica, Patricia (*Summer 2022*)
Johnson, Victoria R (*Winter 2021*)
Jones, Garrett Lane (*Autumn 2020*)
Jordan, Devion Bryce (*Summer 2020*)
Kalsta-Watkins, Maya Taylor (*Summer 2022*)
Kamiya, Hanna Young (*Autumn 2021*)
Kang, Sungjin (*Spring 2022*)
Khairy, Hakimi Fariss (*Summer 2022*)
Kim, Jason Y (*Winter 2021*)
Kim, John Sung Gyu (*Summer 2021*)
King, Liam Nelson (*Winter 2020*)
King, Sarah C (*Winter 2020*)
Knowles, Marlene Craig (*Winter 2020*)
Kong, Mengsiek (*Winter 2022*)
Kou, Oliver Ann (*Spring 2020*)
Kregenow, Noah A (*Winter 2021*)
Le, Ky (*Spring 2021*)
Lee, Joseph Song-Chun (*Spring 2020*)
Lee, Ryan (*Summer 2022*)
Leung, Michaela Wei-Jun (*Spring 2020*)
Li, Junhao (*Summer 2022*)
Liedtke, Jonathon Frederick (*Autumn 2021*)
Lindblom, Lane S (*Winter 2021*)
Liu, Ziyang (*Summer 2021*)
Lomahoynaya, Brandon E (*Autumn 2020*)
Lomeli, Jennifer Aleysha (*Summer 2021*)
Lonchar, Christian David (*Summer 2020*)
Lopez, Daniel (*Winter 2021*)
Loreen, Chloe Victoria Rose (*Winter 2022*)
Mah, Lucas Sang Woo (*Summer 2021*)
Mamer, Madeline Suzanne (*Summer 2021*)
McBride, Grey Hansen (*Autumn 2019*)
McBurney, Chloe Elisabeth (*Spring 2021*)

McGinley, Brian C (*Winter 2021*)

McNulty, Chris (*Autumn 2021*)

Meissner, Jackson Anthony (*Winter 2022*)

Melrose, Jonathan Prescott (*Winter 2022*)

Meyer, Christopher Hamilton (*Spring 2022*)

Mixon, Taylor E (*Summer 2021*)

Myers, Samuel (*Summer 2022*)

Nares, Francisco Ramon (*Summer 2022*)

Ng, Ellen Hui Xin (*Spring 2020*)

Ng, Vincent Yu (*Spring 2022*)

Nguyen, Lynn N (*Summer 2021*)

Nguyen, Tyler Jackson Van (*Spring 2021*)

Nistor, Claudiu (*Autumn 2019*)

Nitzsche, Halie Kay (*Spring 2021*)

Nordyke, Chloe Kenyon (*Summer 2022*)

Olix, Anne-Chloe Emma (*Winter 2020*)

Ortiz-Ortiz, Stephanie (*Winter 2020*)

Osako, Jennifer K (*Spring 2022*)

Ou, Piao (*Winter 2022*)

Park, Tehwan (*Summer 2020*)

Perez, Daniel R (*Spring 2020*)

Perezocana, Juan Rene (*Summer 2022*)

Pflugger, Helena Grace (*Winter 2022*)

Pham, Vu Hoai (*Spring 2020*)

Pierce, Derek Harvey (*Autumn 2019*)

Podhaisky, Maxim Thomas (*Autumn 2019*)

Rai, Sandeep Singh (*Spring 2020*)

Reinleitner, Mark Andreas (*Summer 2022*)

Remily, Christopher Michael (*Winter 2020*)

Rodriguez-Ley, Alma Paola (*Spring 2020*)

Rowe, Jonathan Douglas (*Spring 2020*)

Ruatos, Randy A (*Autumn 2019*)

Sabel, Paola D (*Summer 2021*)

San Diego, Jose Rafael Thaddeus Rivera (*Summer 2021*)

Sanderson, Angela Nicole (*Summer 2021*)

Schefke, Luke W (*Spring 2020*)

Selby, Madison Lee (*Summer 2020*)

Shaykhraziev, Komil Bilolovich (*Summer 2022*)

Shekut, Samuel Joseph (*Winter 2020*)

Shen, Jeremy Kai-Yee (*Summer 2022*)

Shen, Weiyi (*Winter 2022*)

Shewchuk, Annaka Heather (*Spring 2020*)

Shrestha, Baibhav N (*Spring 2021*)

Shwany, Avesta M (*Spring 2020*)

Smith, Leslie Ann (*Autumn 2020*)

Smuthranond, Thai (*Winter 2022*)

Speights, Lindsey A (*Spring 2020*)

Spendlove, Ian Brent (*Winter 2020*)

Squire, Shane Horeth (*Spring 2020*)

Stern, Brian Mackenzie (*Winter 2022*)

Stewart, Brycen Huntar (*Spring 2020*)

Strachan, Brennen Charles (*Autumn 2020*)

Ta, Hieu Trung (*Autumn 2020*)

Tang, Jingyu (*Spring 2022*)

Thienes, Abigail Violet (*Summer 2021*)

Tran, Gary (*Spring 2020*)

Trierweiler, Joshua Grey (*Summer 2020*)

Truong, Christopher Nguyen (*Autumn 2020*)

Tsui, Tiffany (*Autumn 2021*)

Urban, Elizabeth (*Spring 2021*)

Van Draanen, Kyle (*Winter 2021*)

Van Landeghen, Chelsea Lynn (*Winter 2020*)

Vanarnam, Max Philip (*Summer 2020*)

Vengrovski, Maxim (*Spring 2022*)

Viengkham, Elysia (*Summer 2022*)

Vo, Bao Minh (*Autumn 2020*)

Vogeli, Owen Emil Farrington (*Winter 2020*)

Walker, Christopher R (*Autumn 2020*)

Walters, Madeline Elise (*Spring 2020*)

Wan, Xinyu (*Summer 2021*)

Wang, Luyu Martin (*Winter 2022*)

Warnick, Cicely Claire (*Spring 2020*)

Westlund, Savannah Rose (*Spring 2022*)

Winchell, Mason Lee (*Spring 2022*)

Wolde, Leul Mahteme (*Summer 2022*)

Wolman, Tal (*Spring 2021*)

Wong, Calvin J (*Summer 2021*)

Yan, Shuaishuai (*Spring 2022*)

Yang, Tzu-I (*Autumn 2021*)

Yao, Xiaohan (*Spring 2022*)

Yates, Caleb Bryan (*Winter 2022*)

Yetter, Andrew Riley (*Autumn 2019*)

Zhang, Yuchi (*Summer 2020*)

Zipp, Ian Dalton (*Spring 2021*)