

## EDUCATION

- 2012 – 2016 Ph.D. in Geological Sciences (Paleontology Focus), University of Oregon  
2005 – 2008 B.S. in Biology (Minor in Chemistry), Oregon State University

## EMPLOYMENT HISTORY

- 2020 – Now **Assistant Professor, School of Information, University of Arizona**
- Specialties include R, age-depth modelling, spatial analysis, and science communication
  - ISTA 116, Statistical Foundations of the Information Age
  - ESOC/INFO 478/578, Science Information and Its Presentation
  - Senior Capstones Co-coordinator
- 2019 – 2020 **Lecturer, College of the Sciences, Central Washington University**
- GEOL 502, Regional Field Geology of the Pacific Northwest (3 field trips)
  - GEOL 305, Quantitative Reasoning for Geoscientists (1 course lab)
  - BIOL 213, Introductory Biostatistics (1 course lab)
  - BIOL/GEOL 371, Paleobiology (1 course lab field trip)
  - GEOL 200, Historical Geology (1 course lab)
  - GEOL 370, Sedimentology/Stratigraphy (1 course lab field trip, Online Due to COVID19)
  - GEOL 188, Missoula Floods Field Trip (1 field trip)
  - GEOL 101, Evolving Earth (1 course, Online Due to COVID19)
  - GEOL 503, Graduate Student Seminar (1 seminar)
- 2018 – Now **Script Writer and Editor, PBS Eons**
- Wrote the channel's two most popular videos with >6 million views each
  - Trended on YouTube twice, once above a Cardi B music video
  - Helped grow channel subscribers from <400k in 2018 to >900k in 2019
  - Wrote a video that is now being used by Ashfall State Park for outreach
- 2016 – 2019 **Adjunct Lecturer, Central Washington University**
- BIOL 470 Mechanisms of Evolution (1 course lab)
  - GEOL 107, Earth's Surface Processes (2 courses)
  - GEOL 101, Evolving Earth (2 courses)
  - GEOL 188, Missoula Floods Field Trip (1 course, field trip)
  - GEOL 595, Multivariate Statistics (Research Credits, 1 graduate student)
  - ENST 300, Applied Environmental Sciences (1 course lab)
  - Developed curriculum for brand new class (GEOL 107) and modified curriculum to transition a course to online format (ENST 300)
  - Led paleontological fieldwork under a federal permit at Wildcat Creek
  - Worked with two undergraduate students on fossil phylogenetics project, for presentation at SVP October 2018
- 2016 – 2017 **Associate Director of Research, Central Washington University**
- Conducted predictive analytics to understand rates of enrollment (75% accuracy, RandomForest) and retention (90% accuracy, RandomForest)
  - Identified areas of gendered faculty salary and workload inequity and co-wrote ADVANCE grant proposal to address these issues.
  - Counseled student success staff on making data-driven decisions to improve student retention, with particular focus on students of color.
  - Led team of 8 staff members in projects and daily functions.
  - Prepared and explained data for University accreditation processes.

- 2012 – 2016 **Graduate Teaching Fellow, University of Oregon**
- GEOL 418/518 Data Analysis (1 course, Lab sections)
  - GEOL 406/506 Field Camp (2 courses, Field section & lectures)
  - GEOL 203 Surface Processes (1 course, Lab sections)
  - GEOL 308 Dinosaurs (4 courses, Online content)
  - GEOL 433/533 Paleobotany (1 course, Lab sections)
- 2013 – 2015 **Graduate Research Fellow and Museum Assistant, University of Oregon**
- Prepared and catalogued fossil specimens for the collection
  - Created casts and molds of fossil specimens, including large cetaceans and holotypes.
  - Conducted research on Pleistocene Extinction in North America, presented at 2 international conferences and published in the journal *Paleobiology*.
  - Designed and led outreach for Girls in STEM "SPICE" program, local elementary schools, and Northwest Youth Corps.
- 2011 – 2016 **Field Biologist, Merlin Biological**
- Conducted amphibian and terrestrial mollusk detection surveys for BLM and PG&E.
  - Completed level II stream survey for Washington Department of Fisheries and Wildlife. Collected data on fish density and species diversity, stream morphology, and vegetation.
  - Wrote reports recording survey findings and conclusions for small and large-scale projects throughout Washington and Oregon.
  - Trained new staff in field identification skills, and navigation in the field using GPS, map, and compass
- 2014 **Paleontologist, Geocorps, John Day Fossil Beds National Monument**
- Conducted prospecting, surface collection, jacket construction and removal of Oligocene fauna at multiple sites in and around Monument.
  - Cataloged, prepared, and photographed specimens
  - Identified 2000 specimens of fossil artiodactyl to species level, and began work on dissertation chapter describing the systematic revision of several fossil taxa.
- 2003 – 2010 **Outdoor Science Instructor and Counselor, Oregon Museum of Science and Industry**
- Led hikes, classroom activities, lectures, rafting trips, backpacking trips, and travelling programs for groups of up to 120 students (K-12) and 20 staff members.
  - Ran 3-week long language immersion program for LABO Japanese Ambassadors Program, and created and ran multicultural training for staff and volunteers.
  - Created two multi-week herpetology-themed camps which now bring in over \$30,000 annually.
  - Taught fisheries and wildlife science camps for Native American students in collaboration with local Warm Springs tribal elders and the Native Americans Youth and Family Association (NAYA).
- 2008 – 2009 **English Teacher, Lincoln American School**
- Taught English as a second language for K-8 students in Chiayi City, Taiwan.
  - Led training sessions for native English-speaking co-teachers on minimizing Teacher Talking Time and use of realia in language learning.

## PEER-REVIEWED PUBLICATIONS

Wetherell, L. R., Ely, L.L., Roering, J.R., Walsh, M.K., Struble, W.T., Burchfield, M., Nace, K., Black, B. A., **Emery-Wetherell, M. M.** “Quantifying sedimentation patterns of small landslide-dammed lakes in the Central Oregon Coast Range.” *Earth Surface Processes and Landforms*. (*Submitted, In Review*)

**Emery-Wetherell, M.**, Schilter, J. 2020. “A New Early Occurrence of Cervidae from the Miocene-Pliocene Ellensburg Formation in Washington.” *Palaeontologica Electronica*.23(1): a08. <https://doi.org/10.26879/946>

Atwater, A., Thomson, K., **Emery-Wetherell, M.**, Wetherell, L., Kirk, C., Stockli, D. 2020. “Geochronology of the Middle Eocene Purple Bench Locality (Devil’s Graveyard Formation), Trans-Pecos Texas, USA.” *Palaeontologica Electronica*. 23(1):a06. <https://doi.org/10.26879/993>

**Emery-Wetherell, M.**, Mathews, C., Church, C. , Dellard, E. , Davis, E., Roering, J. 2019. "The correlation between topographically-derived relative wetness and terrestrial mollusk presence and abundance." *Malacologia*. 62(2):225-236. <https://doi.org/10.4002/040.062.0203>

**Emery-Wetherell, M.**, Davis, E. 2018. "Dental measurements do not diagnose artiodactyl species: implications for the systematics of Merycoidodontoidea." *Palaeontologia Electronica*. 21.2.23A. <https://doi.org/10.26879/748>

**Emery-Wetherell, M.**, McHorse, B., and Davis, E. 2017. "Spatially-explicit analysis sheds new light on the Pleistocene Megafaunal Extinction in North America." *Paleobiology* 43(4). P. 642-655. <https://doi.org/10.1017/pab.2017.15>

**Emery, M.**, Davis, E., and Hopkins, S. 2016. "Systematic reassessment of the agriochoerid oreodont from the Hancock Mammal Quarry, Clarno (Eocene: Duchesnean), Oregon." *Journal of Vertebrate Paleontology* 36(2): e1041970. <https://doi.org/10.1080/02724634.2015.1041970>

## FREELANCE SCIENCE WRITING

- 2019
- “How Pterosaurs Got Their Wings.” For PBS Eons.
  - “How Earth’s First, Unkillable Animals Saved the World.” For PBS Eons.
  - “How Volcanoes Froze the Earth (Twice).” For PBS Eons.
  - “The History of Climate Cycles (And the Woolly Rhino) Explained.” For PBS Eons.
  - “The Croc that Ran on Hooves.” For PBS Eons.
- 2018
- “Why *Megalodon* (Definitely) Went Extinct.” For PBS Eons.
  - “How Sloths Went from the Seas to the Trees.” For PBS Eons.
  - “When Birds Stopped Flying.” For PBS Eons.
  - “Can We Get DNA From Fossils?” For PBS Eons.
  - “Did *Raptorex* Really Exist?” For PBS Eons.
  - “Life, Sex & Death Among the Dire Wolves.” For PBS Eons.
  - “How a Supervolcano Made the Cenozoic’s Coolest Fossils.” For PBS Eons.
  - “When Fish Wore Armor.” For PBS Eons.
  - “The Mystery of the Eocene’s Lethal Lake.” For PBS Eons.
  - “How T. rex Lost Its Arms.” For PBS Eons.
  - “When Fish First Breathed Air.” For PBS Eons.
  - “That Time It Rained for 2 Million Years.” For PBS Eons.
  - “How the Chalicotheres Split in Two.” For PBS Eons.
  - “Untangling the Devil’s Corkscrew.” For PBS Eons.

## AWARDS AND FUNDING

- 2019 Webby Award Honoree – Best Writing, PBS Eons (joint award)  
Non-Tenure Track Faculty Development Fund, Central Washington University
- 2016 Johnson Award for Research, University of Oregon  
Science Slam 1<sup>st</sup> Place, Women in Graduate Sciences, University of Oregon
- 2015 Doris O. and Samuel P. Welles Research Fund, University of California at Berkeley  
Thomas Condon Fellowship, University of Oregon  
Outstanding Editorial Achievement, American Federation of Teachers  
Outstanding Student Employee, University of Oregon
- 2014 Field Museum of Natural History Research Grant; FMNH Chicago  
Ernst Mayr Travel Fellowship; Harvard University  
Geocorps Travel Grant, Geological Society of America  
Student Travel Award, Geological Society of America  
Thomas Condon Fellowship, University of Oregon
- 2013 Theodore Roosevelt Memorial Fund Award; American Museum of Natural History  
Smith Scholarship; University of Oregon  
People’s Choice Award, Three Minute Thesis Competition; University of Oregon  
Best Poster Award, Graduate Student Research Forum, University of Oregon
- 2011 Grant from Oregon Museum of Science and Industry to update raptor enclosure (5,000\$)

## FILM AND TELEVISION APPEARANCES

- 2020 Self, “X-Ray Earth: Volcano Apocalypse.” National Geographic Documentary Series.  
<http://www.natgeotv.com/int/x-ray-earth>

## PRESS AND NEWS COVERAGE

- 2020 “Ask Wellington: Was the oldest deer fossil ever uncovered in North America found on Craig’s Hill in Ellensburg by a CWU graduate student?” **CWU Crimson and Black**.  
<http://www.cwucrimsonandblack.com/story/ask-wellington-was-the-oldest-deer-fossil-ever-uncovered-in-north-america-found-on-craigs-hill-in-ellensburg-by-a-cwu-graduate-student>
- 2019 “How PBS Video Content Landed in the Exclusive Billion Views Club.” Lauren Orsini for **Tubular Insights: Viral Marketing Strategies**. <https://tubularinsights.com/pbs-video-billion-views/>
- “The 4 Best Episodes of PBS Eons, Which Dramatizes the First Days of the Planet.” Scott Williamson for **Study Breaks**. <https://studybreaks.com/tvfilm/pbs-eons-episodes/>
- 2018 “The Fossil Lake that Froze Time.” Liesl Ulrich-Verderber for **Ever-Widening Circles**.  
<https://everwideningcircles.com/2018/10/20/fossils-messel-germany/>
- “Possibly oldest deer jaw in North America found in Ellensburg.” Michael Gallagher for

the **Daily Record**, Ellensburg Washington.

[https://www.dailyrecordnews.com/news/possibly-oldest-deer-jaw-in-north-america-found-in-ellensburg/article\\_9846ace9-4707-58c9-85f7-ae86bf63bdba.html](https://www.dailyrecordnews.com/news/possibly-oldest-deer-jaw-in-north-america-found-in-ellensburg/article_9846ace9-4707-58c9-85f7-ae86bf63bdba.html)

“Possibly oldest deer jaw in North America found in Ellensburg.” Michael Gallagher for the **Yakima Herald**, Yakima, Washington.

[https://www.yakimaherald.com/news/local/possibly-oldest-deer-jaw-in-north-america-found-in-ellensburg/article\\_475af3a9-530f-518a-8d0b-866d8287a9be.html](https://www.yakimaherald.com/news/local/possibly-oldest-deer-jaw-in-north-america-found-in-ellensburg/article_475af3a9-530f-518a-8d0b-866d8287a9be.html)

“Why Rain Constantly Fell for Two Million Years During the Earth’s Late Triassic Period.” Lori Dorn for **Laughing Squid**. <https://laughingsquid.com/why-it-rained-for-two-million-year/>

“Have You Ever Wondered Why the T. rex Had Such Tiny Arms?” By Donna Dickens for **The Nerdist**. <https://nerdist.com/article/why-did-t-rex-have-tiny-arms/>

### PRESENTATIONS

- 2020 Lubinski, P., Butler, V. L., **Emery-Wetherell M.**, Jenkins, D. L., Royce, T. C. A., Yang, D. Y. “Late Pleistocene Fishing at Paisley Caves, Oregon.” Northwest Anthropological Conference. *Cancelled due to COVID19.*
- 2019 Terry, R., **Emery-Wetherell, M.**, Davis, E. B., Jenkins, D.L. “The small mammals of Paisley Caves: disentangling climate-driven environmental change from prehistoric human impacts on diversity dynamics.” Conservation Paleobiology: Natural Systems in a Human World. North American Paleontology Conference.
- Lindsey, E., Villavicencio, N., Mychajliw, A., Davis, E.B., Capriles, J., **Emery-Wetherell, M.** “Regional patterns of Pleistocene extinctions in South America: interacting impacts of climate, humans, taxonomy, and biogeography.” International Biogeography Society Annual Meeting, Malaga.
- 2018 **Emery-Wetherell, M.**, Canada, S. , Grande, K. “A preliminary phylogenetic analysis of trunk evolution in oreodonts (Superfamily Merycoidodontoidea, Order Cetartiodactyla).” Society of Vertebrate Paleontology Annual Meeting. Technical Session IX Ungulates and Carnivores.
- 2017 Terry, R.C, Davis, E.B., **Emery-Wetherell, M.**, Jenkins, D.L. “The small mammals of Paisley Caves: detecting environmental change and compositional turnover at the Younger Dryas-Holocene transition.” Society of Vertebrate Paleontology Annual Meeting
- 2016 Davis, E.B., **Emery-Wetherell, M.** “Geospatially-explicit analysis of South and North American megafaunal extinctions suggests differential causation.” IX Congreso Latinoamericano Paleontologia.
- Emery-Wetherell, M.** “Cranial morphometrics and dental measurements critically underestimate the diversity of fossil artiodactyl species.” Society of Vertebrate Paleontology Annual Meeting, Technical Session I: Dental Wear/Ungulates.
- Famoso, N. A., Samuels, J. X., Hopkins, S. B., Davis, E. B., **Emery-Wetherell, M.** “Updated Biostratigraphy of the Turtle Cove Member (John Day Formation) in the John Day Basin, Oregon.” Society of Vertebrate Paleontology, Paleoecology/Biostratigraphy Session.

- 2015 **Emery, M.**, Warrick, D., Davis, E. B. "Traumatic Injury in *Promerycochoerus* (Family Merycoidodontidae, Order Cetartiodactyla)." Society of Vertebrate Paleontology Annual Meeting, Ungulates Dietary Reconstruction.
- Davis, E. **Emery, M.** McHorse, B. "Geospatial Analysis of Human-Megafaunal Overlap in North America." International Biogeography Society Annual Meeting, Session CT8 Quaternary and Cultural Legacies.
- 2014 **Emery, M.**, McHorse, B., Davis, E. "Geospatial Analysis of Human-Megafaunal Overlap in North America (#247318)." Geological Society of America Annual Meeting, Paleontology: Temporal and Stratigraphic Resolution in the Fossil Record.
- Emery, M.**, Samuels, J., Famoso, N. "Biostratigraphy and relative abundance of oreodonts in the John Day Formation (#246866)." Geological Society of America Annual Meeting, T104. GeoCorps™ America—A Successful Partnership Promoting Individual Professional Development and Application of Geoscience to Management of America's Public Lands.
- 2013 Davis, E., **Emery, M.**, Famoso, N., Mcguire, J. "When was the modern latitudinal richness gradient established?" Society of Vertebrate Paleontology Annual Meeting, Technical Session IX.
- Emery, M.**, Davis, E. "Character variability in modern Artiodactyla and implications for oreodont phylogeny." Three Minute Thesis Competition.
- POSTERS**
- 2019 Machado, H., **Emery-Wetherell, M.**, Hopkins, S. "A complete cranium of *Merycochoerus magnus* from Bone Creek, Oregon." Geological Society of America Annual Meeting.
- Canada, S., **Emery-Wetherell, M.** "A preliminary analysis of trunk evolution in oreodonts (Superfamily Merycoidodontoidea, Order Cetartiodactyla)." Symposium of University Research and Creative Expression.
- Lubinski, P.M, Butler, V., **Emery-Wetherell, M.**, Grimstead, D., Jenkins, D., and Yang, D. "Using fish remains from Paisley Caves, Oregon to explore hunter-gatherer lifeways and lake level history in the Chewaucan Basin over the past 14,000 calendar years." Society for American Archaeology.
- Henderson, J., **Emery-Wetherell, M.** "Measuring Trace Element Concentrations in Artiodactyl Cannonbones using Portable X-Ray Fluorescence." Northwest Anthropology Conference.
- 2016 **Emery-Wetherell, M.**, Atwater, A., Thomson, K. , Wetherell, L., Kirk, E. C., Stockli, D. "Paleoenvironment reconstruction and Geochronology of the Lower and Middle Members of the Devil's Graveyard Formation (Tornillo Basin, Texas)." Geological Society of America.
- O'Donnell, Khalid, **Emery, M.**, Davis, E. B. "Paedomorphism in Modern Camelids." Society of Vertebrate Paleontology, Poster Session.
- 2015 **Emery, M.** "Cost Reduction in Casting and Molding of Large Fossil Specimens." IPSA section. University of Oregon Graduate Student Research Forum.
- Emery, M.** "Geospatial Analysis of Human-Megafaunal Overlap in North America." University

of Oregon Graduate Student Research Forum.

Famoso, N., Samuels, J., Davis, E., **Emery, M.** “Evidence of Volcanically Induced Turnover in Mammalian Communities of the John Day Basin, Oregon (#245367).” Geological Society of America Annual Meeting, T104. GeoCorps™ America—A Successful Partnership Promoting Individual Professional Development and Application of Geoscience to Management of America’s Public Lands.

2014 **Emery, M.**, Roering, J., Davis, E. “Where are all the Warty Jumping-Slugs?” University of Oregon Graduate Student Research Forum.

2013 **Emery, M.**, Davis, E., Hopkins, S. "Character variation in modern camels and sheep highlights problems in the genus-level taxonomy of agriochoerid oreodonts." Society of Vertebrate Paleontology Annual Meeting Poster Session.

Walters, K. , **Emery, M.**, Davis, E. "Deciduous teeth show close relationships between oreodont genera (*Eucrotaphus*, *Merycochoerus* and *Promerycochoerus*)." Society of Vertebrate Paleontology Annual Meeting Poster Session.

**Emery, M.**, Davis, E. “What makes a species a species? Character variability in Merycoidodontoidea.” University of Oregon Graduate Student Research Forum.

Walters, K. , **Emery, M.**, Davis, E. “Deciduous teeth morphology shows close relationship between oreodont genera (*Promerycochoerus*, *Merycochoerus* and *Eucrotaphus*.)” University of Oregon Undergraduate Research Forum.

2010 **Emery, M.**, Levering, D., Famoso, N.A., Atwater, A. “The Oregon Museum of Science and Industry Paleontology Research Team: 60 years of fieldwork and classroom Education in Macroevolution and Climate Change”. Society of Vertebrate Paleontology Annual Meeting Circular: Education and Outreach Session.

### INVITED TALKS & TRAININGS

2020 “The Evolution of Trunks in Oreodonts,” Palaeocast Podcast.  
TBD, University of California, Santa Barbara Geology Seminar

“Did long-necked dinosaurs have trunks?” Science in a Pint, Ellensburg, Washington.

2018 “The Spatial Statistics of the Pleistocene Extinction in North and South America.” Department of Biology, Eastern Washington University.

“Not *Entirely* Our Fault: Using Spatial and Temporal Data to Hypothesis Test the North American Pleistocene Extinction.” Department of Geological Sciences, Central Washington University.

“Not *Entirely* Our Fault: Using Spatial and Temporal Data to Hypothesis Test the North American Pleistocene Extinction.” Paleontology Brown Bag Seminar. University of Washington.

2017 “Data Manipulation in R for Higher Education Data.” Institutional Effectiveness Training. Central Washington University.

“The ‘Woman’ Paleontologist.” Femmes of Stem Podcast.

“From Bones to Behavior: Using Signs of Injury and Illness to Understand the Lives of Extinct Mammals.” Natural Science Seminar for Department of Biology, Central Washington University.

2016 “Autocorrelation and Uncertainty Propagation in Spatial Data.” Guest Lecture at UO.

- 2015 "Pleistocene Fauna." Guest Lecture at the University of Oregon (UO).
- 2014 "How to Get into Graduate School." Panelist, UO Women in Graduate Sciences.  
"Top 12 Dinosaurs." Rank You Very Much Podcast, The Future of Comedy Podcast Network.
- 2013 "Raptor Care and Maintenance." Training for Oregon Museum of Science and Industry.  
"Raptor Training Techniques." Training for Oregon Museum of Science and Industry.  
"Bone Anatomy and Functional Morphology." Northwest Youth Corps.
- 2012 "Raptor Care and Maintenance." Training for Oregon Museum of Science and Industry.  
"Raptor Training Techniques." Training for Oregon Museum of Science and Industry.  
"Paleontological Field Techniques." Training for Oregon Museum of Science and Industry.  
"Leaf Architecture and Identification." Training for Oregon Museum of Science and Industry.  
"Climate Change and Leaf Morphology." Training for Oregon Museum of Science and Industry.

### SELECTED SERVICE AND VOLUNTEER POSITIONS

- 2020 – Now **Handling Editor, Palaeontologia Electronica**  
Assign reviewers, accept and reject papers for international open access online-only paleontology journal. Impact Factor 1.4 (2017)
- 2017 – 2019 **Masters Committee Co-Chair, Anthropology, Central Washington University**  
Advising on multivariate statistical methods for a bone chemistry project.
- 2017 **Science II Timeline Exhibit Design, Central Washington University**  
Helped design panel on ancient life and fossils through time. Wrote text, provided input on illustrations. Cast and painted ~75 specimens from the University of Oregon paleontology collections for both display and for teaching use. Prepared stromatolite fossils for display.
- 2015 – 2016 **Vice President of Equity and Inclusion, Graduate Student Employees Union (GTFF 3544), University of Oregon**  
Created and led Disability Access Caucus, and collaborated with Accessible Education Center, Affirmative Action Center, Bias Response Team and local union members to lead a forum on issues surrounding access by and accommodations for disabled university employees and students.
- 2015 – 2016 **Search Committee for the Dean of the College of Arts and Sciences, University of Oregon**  
Discussed bias in hiring practices, and necessity of greater diversity in pool of candidates. Ensured candidates were asked questions about graduate student concerns and needs.
- 2013 – 2016 **Undergraduate Mentor, University of Oregon**  
Worked with five undergraduate students on three different research projects, which has resulted in 2 formal conference presentations, one senior thesis project, and a research paper in press with three undergraduates as co-authors. Worked to increase student confidence in research and statistical skills.
- 2015 **Session Moderator, Temporal and Stratigraphic Resolution in the Fossil Record, Geological Society of America's Annual Meeting**



- 2014 **Judge, Three Minute Thesis, University of Oregon**
- 2014 – 2015 **Graduate Student Representative, Department of Geological Sciences, University of Oregon**  
Assisted in communication between students and department, in particular involving concerns about disability accommodation within the department. Sat in on faculty meetings and offered graduate student perspective on hiring.
- 2015 - 2016 **Field Research Assistant, University of Texas (Austin)**  
Collaborated with Chris Kirk of UT Austin to prospect for and surface-collect vertebrate microfossils from Eocene Devil's Graveyard Formation. Quarried and collected matrix for sifting at Eocene microfossil Canoe Formation site in Big Bend National Park.
- 2014 **Kyrgyzstan Field Research Assistant, University of Oregon**  
Worked with Win McLaughlin (UO) in Kyrgyzstan to find Miocene and Eocene fossil localities, quarry and collect fossil material, and transport fossils internationally.
- 2011 **Bird Trainer, Birds of Prey Program, Oregon Museum of Science and Industry**  
Trained permanently disabled birds of prey for program use by the Oregon Museum of Science and Industry (OMSI), creating training manuals and establishing appropriate veterinary procedures. Designed and built upgrades to mews facility, working within a set budget and deadline.
- 2011 **Research Volunteer, Oregon State University**  
Assisted in bovine behavioral study in Union, Oregon for Oregon State University. Recorded behavior changes for calibration of motion-detecting collar.
- 2005 – 2009 **Field Volunteer, Bureau of Land Management**  
Prospecting, surface collection, jacket construction and removal of vertebrate material at Sorefoot Creek Locality for Bureau of Land Management.
- 2007 **Editing Volunteer, Oregon Department of Fisheries and Wildlife**  
Edited and updated "Oregon Turtle Rehabilitation Guide"

### **WORKSHOPS AND TRAINING**

- 2018 Faculty Institute for Online Teaching, Central Washington University  
Tracking and Improving Engagement in Online Teaching, Central Washington University
- 2017 How to conduct a gender equity study using multilevel modelling, AIR  
Analyzing NAEP data in R, American Educational Research Association  
Using R to calibrate Item Response Theory models, American Educational Research Association  
Using Multilevel Modeling to Meta-Analyze Single-Case Experimental Studies, American Educational Research Association
- 2016 Universal Course Design, Disability on Campus Forum, U. of Oregon  
Accommodations in the Classroom, Disability on Campus Forum, U. of Oregon  
Service Animals, Disability on Campus Forum, U. of Oregon  
Mental Health of Students and Staff, Disability on Campus Forum, U. of Oregon
- 2015 Science Communication Workshop, Alan Alda Center
- 2013 Veteran Education and Support Symposium, University of Oregon

- 2012 Pacific Northwest Lichen Identification, Merlin Biological  
Pacific Northwest Bryophyte Identification, Merlin Biological  
Pacific Northwest Vascular Plants Identification, Merlin Biological  
Bryophyte and Lichen Survey Protocols, Merlin Biological  
Invasive and Non-Invasive Vascular Plants Survey Protocols, Merlin Biological
- 2011 Pacific Northwest Terrestrial Mollusk Survey Protocols, Merlin Biological  
Stream Survey II-III Protocols, Merlin Biological
- 2009 Inquiry-Based Learning and Lesson Plan Design, Oregon Museum of Science and Industry
- 2008 Native American Learning Culture, Oregon Museum of Science and Industry

#### **AFFILIATIONS**

- 2011 – Now Member, Society of Vertebrate Paleontology  
2018 – Now Research Associate, Central Washington University  
2018 – Now Research Associate, Museum of the Rockies, Montana State University  
2019 – Now Consulting Paleontologist, Tierra Right of Way Services