

Christy E. Briles, PhD

CAMPUS ADDRESS

Department of Geography and Environmental Sciences
University of Colorado Denver
Auraria Campus-North Classroom Building, Room 3514
Campus Box 172; PO Box 173364-Denver, CO 80217-3364

EDUCATION

- 2003-2008** **Doctor of Philosophy: Geography**
(emphasis in paleoecology and biogeography)
University of Oregon (Eugene, OR)
- 1999-2003** **Master of Science: Geography**
(emphasis in paleoecology and biogeography)
University of Oregon (Eugene, OR)
- 1995-1999** **Bachelor of Science: Environmental Science**
(minors: Geography and Biology)
University of Denver

Scientific Specializations

Paleoecology; biogeography; palynology (pollen); environmental reconstruction and monitoring using proxy data; bee pollination/ecology/beekeeping practices

Geographic Interests

Northern California (Klamath-Siskiyou Ecoregion); Colorado; Northern Vietnam

PROFESSIONAL EXPERIENCE

- 2013-present** **Assistant Professor**
Department of Geography and Environmental Sciences
Denver, CO
- 2011-2012** **Lecturer** (equivalent to an Assistant Professor in US)
School of Geography and Environmental Science, Monash University
Melbourne, Australia
- 2009-2011** **Adjunct Faculty**
Department of Anthropology, Texas A&M University
College Station, TX
University of Denver
- 2009-2011** **Postdoctoral Research Associate**
Department of Anthropology, Texas A&M University
College Station, TX
- 2008-2009** **Postdoctoral Research Associate**
Department of Earth Sciences, Montana State University
Bozeman, MT
- 2004-2008** **Research Assistant**
Department of Earth Sciences, Montana State University
Bozeman, MT

1999-2004

Research or Teaching Assistant

Department of Geography, University of Oregon
Eugene, OR

1997-1999

Physical Science Aid

Geological Mapping Division, United States Geological Survey
Denver, CO

PEER REVIEWED PUBLICATIONS; *student

Note: See Table 2 for a description of my contribution to the article.

- Briles, C.E.**, *Serenchenko, O., Stevens, L., White, A.J., and Huong, Mai. 2019. Late Holocene climate and human impacts on a tropical ecosystem in northern Vietnam. *Frontiers in Ecology and Evolution*. 7(121), 1-11. (doi: 10.3389/fevo.2019.00121).
- Briles, C.E.**, 2017. Controls on mountain plant diversity: a 14,000-year overview. *Annals of the Association of American Geographers* 107(2), 238-249. (doi: 10.1080/24694452.2016.1232617).
- Rathburn, S.L., Bennett, G.L., Wohl, E.E., **Briles, C.E.**, McElroy, B., Sutfin, N. 2017. The fate of sediment, wood and organic carbon eroded during an extreme flood, Colorado Front Range, USA. *Geology* 45(6), 499-502. (doi: 10.1130/G38935.1).
- Kinoshita, A.M., Chin, A., Simon, G.L., **Briles, C.E.**, Hogue, T.S., O'Dowd, A.P., Gerlak, A.K., Albornoz, A.U. 2016. Wildfire, water, and society: Toward integrative research in the "Anthropocene". *Anthropocene* 16, 16-17. (doi: 10.1016/j.ancene.2016.09.001).
- Cook, P.L.M., *Jennings, M., Holland, D.P., Beardall, J., **Briles, C.E.**, Atun, Z., Doan, P.L., Mills, K., Gell, P. 2016. Blooms of cyanobacteria in a temperate Australian lagoon system post and prior to European settlement. *Biogeosciences* 113 (12), 3677-3686. (doi: 10.5194/bg-13-3677-2016).
- *White, A., **Briles, C.E.**, Whitlock, C. 2015. Postglacial vegetation and fire history of the southern Cascade Range, Oregon, USA. *Quaternary Research* 84, 348-357. (doi: 10.1016/j.yqres.2015.09.007).
- Higuera, P.E., **Briles, C.E.**, Whitlock, C. 2014. Fire regime complacency and sensitivity to centennial- through millennial-scale climate variability in Rocky Mountain subalpine forests, Colorado, USA. *Journal of Ecology* 102, 1429-1441. (doi: 10.1111/1365-2745.12296).
- Dunnette, P.V., Higuera, P.E., McLauchlan, K.K., Derr, K.M., **Briles, C.E.**, and Keefe, M.H. 2014. Biogeochemical impacts of wildfires over four millennia in a Rocky Mountain subalpine watershed. *New Phytologist* 203, 900-912. (doi: 10.1111/nph.12828).
- Morey, A.E., Goldfinger, C., **Briles, C.E.**, Gavin, D., Colombaroli, D. and Kusler, J.E. 2013. Are great Cascadia earthquakes recorded in the sedimentary records from small forearc lakes? *Natural Hazards and Earth System Science* 13, 2441-2463. (doi: 10.5194/nhess-13-2441-2013).
- Briles, C.E.**, Whitlock, C., and Meltzer, D. 2012. Late-glacial-interglacial environments in the southern Rocky Mountains, USA and implications for Younger Dryas-age human occupation. *Quaternary Research* 77, 96-103. (doi: 10.1016/j.yqres.2011.10.002).
- Marlon, J.R., Bartlein, P.J., Long, C., Gavin, D.G., Anderson, R.S., **Briles, C.E.**, Brown, K.J., Colombaroli, D., Hallett, D.J., Power, M.J., Scharf, E.A., Walsh, M.K. 2012. A long-term perspective on wildfires in the western U.S. *Proceedings of the National Academy of Sciences* 109, 3203-3204. (doi: 10.1073/pnas.1112839109).
- Briles, C.E.**, Whitlock, C., Skinner, C., and Mohr, J. 2011. Holocene forest development and maintenance on different substrates in the Klamath Mountains, northern California. *Ecology* 92, 590-601. (doi:10.1890/09-1772.1).

- Whitlock, C., **Briles, C.E.**, Fernandez, M.C., and Gage, J. 2011. Holocene vegetation, fire, and climate history of the Sawtooth Range, central Idaho, USA. *Quaternary Research* 75, 114-124. (doi: <https://doi.org/10.1016/j.yqres.2010.08.013>).
- Whitlock, C., Higuera, P.E., McWethy, D., **Briles, C.E.** 2010. Paleoecological perspective on fire ecology: revisiting the fire-regime concept. *The Open Ecology Journal* 3, 6-23. (doi: 10.2174/1874213001003020006).
- Marlon, J.R., Bartlein, P.J., Walsh, M.K., Harrison, S.P., Brown, K.J., Edwards, M.E., Higuera, P.E., Power, M.J., Anderson, R.S., **Briles, C.E.**, Brunelle, A., Carcaillet, C., Daniels, M., Hu, F.S., Lavoie, M., Long, C., Minckley, T., Richard, P.J.H., Shafer, D.S., Tinner, W., Umbanhowar, C.H., Whitlock, C. 2009. Wildfire responses to abrupt climate change in North America. *Proceedings of the National Academy of Sciences*. 106, 2519-2524. (doi: 10.1073/pnas.0808212106)
- Briles, C.E.**, Whitlock, C, Bartlein, P.J and Higuera, P.E. 2008. Regional and local controls on postglacial vegetation and fire in the Siskiyou Mountains of northern California and southern Oregon. *Palaeogeography, Palaeoclimatology, Palaeoecology* 265, 159-169. (doi: 10.1016/j.palaeo.2008.05.007).
- Whitlock, C., Marlon, J., **Briles, C.E.**, Brunelle, A., Long, C. and Bartlein, P.J. 2008. Long-term relations between fire, fuel, and climate in the northwestern U.S. *International Journal of Wildland Fire* 17, 72-83. (doi: 10.1071/WF07025).
- Power, M.J., Marlon, J., Ortiz, N., Bartlein, P.J., Harrison, S.P., Mayle, F.E., Ballouche, A., Bradshaw, R., Carcaillet, C., Cordova, C., Mooney, S., Moreno, P., Prentice, I.C., Thonicke, K., Tinner, W., Whitlock, C., Zhang, Y., Zhao, Y., Anderson, R.S., Beer, R., Behling, H., **Briles, C.**, Brown, K.J., Brunelle A, Bush, M., Camill, P, Chu, G.Q., Clark, J., Colombaroli, D., Connor, S., Daniels, M., Daniau, A.-L., Dodson, J., Doughty, E., Edwards, M.E., Fisinger, W., Foster, D., Frechette J., Gaillard, M.-J., Gil-Romera, G., Gavin, D.G., Gobet, E., Haberle, S., Hallett, D.J., Higuera, P., Hope, G., Horn, S., Impagliazzo, S., Inoue, J., Kaltenrieder, P., Kennedy, L., Kong, Z.C., Larsen, C., Long, C.J., Lynch, J., Lynch, B., McGlone, M., Meeks, S., Mensing, S., Meyer, G., Minckley, T., Mohr, J, Nelson, D., New, J., Newnham, R., Noti, R., Oswald, W., Pierce, J., Richard, P.J.H., Rowe, C., Sanchez Goñi, M.F., Shuman, B.J., Takahara, H., Toney, J., Turney, C., Umbanhowar, C., Vandergoes, M., Vanniere, B., Vescovi, E., Walsh, M., Wang, X., Williams, N., Wilmshurst, J., Zhang, J.H. 2008. Changes in fire regimes since the Last Glacial Maximum: an assessment based on a global synthesis of charcoal data. *Climate Dynamics* 30, 887-907. (doi: 10.1007/s00382-007-0334-x).
- Briles, C.E.**, Whitlock, C., and Bartlein, P.J. 2005. Postglacial vegetation, fire and climate history of the Siskiyou Mountains, Oregon, USA. *Quaternary Research* 64, 44-56. (doi: 10.1016/j.yqres.2005.03.001).

PEER REVIEWED BOOK CHAPTERS

Note: See Table 2 for a description of my contribution to the book chapter.

- Skinner, C.N., Taylor, A.K., Agee, J.K., **Briles, C.E.**, and Whitlock, C. 2018. Klamath Mountains Bioregion. In: N. G. Sugihara, J. W. van Wagtenonk, J. Fites-Kaufmann, K. E. Shaffer, and A. E. Thode, editors. *Fire in California's Ecosystems*. University of California Press, Berkeley. pp. 171-193.

PUBLISHED PEER REVIEWED ABSTRACTS; *student

- Briles, C.E.**, *Serenchenko, O., Stevens, L., White, A., and Huong, M. 2016. Late Holocene Anthropogenic Impacts on Tropical Ecosystems of Northern Vietnam. *Geological Society of America Annual Conference*. DOI: 10.1130/abs/2016AM-282461.
- *Morton, S., and **Briles, C.E.**. 2016. Holocene Pattern of Fires and Forests Across the Biodiverse Klamath Mountains, Northern California, USA. *Geological Society of America Annual Conference*. DOI: 10.1130/abs/2016AM-287768.
- *Hickman, Z.K., **Briles, C.E.**, and Gray, A. 2016. Characterizing Snow Avalanches Recorded in Lake Sediments in Central Colorado. *Geological Society of America Annual Conference* DOI: 10.1130/abs/2016AM-283138.
- Staniforth, M., Nga, D.T., Lien, L.T., Kimura, J., **Briles, C.E.**, O'Toole, P., Sheppard, B. 2016. Recent research into the ancient port of Van Don. *2nd SEAMEO SPAFA International Conference on Southeast Asian Archaeology*. Conference Proceedings.
- Briles, C.E.** 2015. Involving undergraduate students in primary research: examples and student perspectives. Earth Educators' Rendezvous. Boulder, CO. July 13-17. https://serc.carleton.edu/earth_rendezvous/2015/program_table/abstracts/100906.html.
- Olson, H.A., Kusler, J., Wan, E., Starratt, S.W., **Briles, C.**, White, A., Florentine, C. Preliminary tephrochronologic and diatom analyses from Hobart Lake, Jackson County, Southeastern Oregon, and regional correlations with late Holocene middle and high elevation lacustrine records from the Western US. *Quaternary International* 387:141-142.
- *White, A., **Briles, C.E.**, Whitlock, C. 2014. Vegetation response to Holocene variations in climate and fire activity in southwestern Oregon. *AGU Fall Meeting Abstracts* 1, 1400.
- Briles, C.E.**, Whitlock, C. Skinner, C.N., Mohr, J. 2013. Substrate and climate influences on Holocene forest development. *Quaternary International*, 229.
- Morey, A.E., Goldfinger, C., **Briles, C.E.**, Gavin, D.G., Colombaroli, and Kusler, J.E. 2012. A comparison of disturbance events in Cascadia lakes to marine seismogenic turbidites. *AGU Fall Meeting Abstracts* 1, 2735.
- Morey, A.E., Goldfinger, C., **Briles, C.E.**, Gavin, D.G., Colombaroli, and Kusler, J.E. 2011. Potential Lacustrine Records of Cascadia Great Earthquakes. *AGU Fall Meeting Abstracts* 1, 2334.
- Higuera, P. E., C. L. Whitlock, **C. Briles**, and P. Dunnette. 2011. Decadal- to millennial-scale interactions among climate, fire, and ecosystem processes in subalpine forests of the US Rocky Mountains. *AGU Fall Meeting Abstracts* 1, 280.
- Briles, C.E.**, Whitlock, C.L. 2011. Holocene substrate influences on plant and fire response to climate change. *AGU Fall Meeting Abstracts* 1, 1133.
- Whitlock, C.L., **Briles, C.E.**, Meltzer, D.J. 2010. Abrupt Climate Change & Paleoindian Environments in Western Colorado from 17-6ka yr BP. *AGU Fall Meeting Abstracts* 1, 1667.
- Briles C.E.** and Bryant, V. 2010. Characteristics of modern pollen rain and the relationship to vegetation in sagebrush-steppe environments of Montana, USA. *AGU Fall Meeting Abstracts* 1, 467.
- Briles, C.E.**, Whitlock, C. and Bartlein, P.J. 2006. Vegetation and fire dynamics in different geological setting, Klamath Mountains, northwestern. *AGU Fall Meeting Abstracts* 1, 371
- Whitlock, C., Bartlein, P., Bianchi, M.M., **Briles, C.**, Brunelle, A., Long, C., Markgraf, V., Marlon, J., Meeker, C., Power, M., Walsh, M. 2003. Disturbance Frequency Changes in Western North and South America During the Holocene. *AGU Fall Meeting Abstracts* , 144.

GRANTS & OTHER FUNDING

External Grants and Funding (\$136,025)

Note: See Table 1 for a description of my contributions.

- 2018-2020** National Park Service: Air Quality Division Student Internship Funding
Amount: \$88,200 (\$39,500 for 18-19 and \$48,700 for 19-20)
- 2018-2020** Colorado State Historical Fund. *Phase I Archaeological and Biogeographical Research at the La Botica Site, Conejos County, Colorado*. Paleocultural Research Group (15 participants). Funding to Dr. Mark Mitchell
Amount: \$102,767 (\$12,000 CU Denver; paleoenvironmental history)
- 2015-2017** Experiment.com Crowd Funding. *How has Climate Change Altered the Frequency of Colorado Avalanches during the Last Four Millennia?*
Amount: \$5825
- 2010-2016** USDA Forest Service Cooperative Research Grant (Pacific Southwest Research Station). *Species responses to past climate change: A closer look at the histories of Douglas-fir and mountain hemlock in northern California* (PI-Cathy Whitlock; CO-PI Christy Briles and Carl Skinner [Eric Knapp took over following Skinner's retirement]).
Amount: \$144,000 (\$30,000 to CU Denver)

External Contracts (\$59,662)

- 2019** Analysis of Archeological Pollen Samples for Paleoscapes Archaeobotanical Services Team (PAST), LLC.
Amount: \$7300
- 2018** Analysis of Archeological Pollen Samples for Paleoscapes Archaeobotanical Services Team (PAST), LLC.
Amount: \$11,000
- 2018** Analysis of Archeological Pollen Samples for Metcalf Archaeology
Amount: \$1100
- 2017** Analysis of Archeological Pollen Samples for Paleoscapes Archaeobotanical Services Team (PAST), LLC.
Amount: \$10000
- 2016-'17** Colo. State University/Dr. Sara Rathburn. Coring and movement of sediment in Ralph Price Reservoir following the 2013 Floods.
Amount: \$7000
- 2015-'16** Colo. State University/Dr. Sara Rathburn. Coring and analysis of sediment properties of Ralph Price Reservoir before and after the 2013 Floods.
Amount: \$3300
- 2014-'16** Holocene Disturbance Regimes and Vegetation Change in Ponderosa Pine Forests on the Northern Colorado Front Range
Amount: \$19962 via Colorado State University (Tony Cheng) & USFS Rocky Mountain Research Station; \$0 CU Denver; funds supported a CU Denver graduate student employed at CSU, radiocarbon dates and research supplies

Internal Grants (\$72,008)

- 2017-'18** CU Denver, Office of Research Services Large Grant. *Combating the Honeybee Mite Varroa destructor: Examination of Beekeeping Behavior, Mite Mitigation, and Hive Health in Denver.* (PI with Peter Anthamatten in GES).
Amount: \$15,000 + \$3000 match from CLAS and GES
- 2017-'18** CU Denver, Office of Research Services Small Grant. Pollen foraging patterns of the European honeybee (*Apis mellifera*) in the Denver metro area. (PI).
Amount: \$2978 + \$600 match from GES
- 2016-'17** CU Denver, College of Liberal Arts & Sciences Research Innovation Seed Programs (CRISP). Evaluation of honey bee health, honey production, and hive maintenance in Flow™ hives and traditional Langstroth hives. (CO-PI with Dr. Annika Mosier in Integrative Biology)
Amount: \$10,000
- 2015-'16** CU Denver, Office of Research Services Large Grant. *Understanding Drivers of Environmental Change in Tropical Ecosystems of Northern Vietnam.* (PI)
Amount: \$24,930 + \$7,500 matching from CLAS and GES
- 2014-'15** CU Denver, College of Liberal Arts & Sciences Research Innovation Seed Programs (CRISP). *Environmental impacts of 4000 years of war, agriculture, and climate change in northern Vietnam.* (PI)
Amount: \$7000
- 2014-'15** CU Denver, College of Liberal Arts & Sciences Dissemination Grant. *Four thousand years of climate and human influences on northern Vietnam coastal ecosystems.* (PI)
Amount: \$1000

Student Research Grants and Sponsorships (\$8,900)

- 2019-'20** *A five thousand-year paleoenvironmental history of Beaver Lake, southeastern San Juan Mountains, CO.*
Role: UROP Faculty Sponsor of Matthew Davis
Amount: \$1200
- 2018** *Japanese Beetles and Bees: Examining Pesticides Recommended by Garden Centers and Stores.*
Role: UROP Faculty Sponsor of Rebecca Friend
Amount: \$500
- 2016-'17** *Honey bee health, honey production, and hive maintenance in Flow™ and traditional Langstroth hives.*
Role: UROP Faculty Sponsor of Kade Beem; Vy Nguyen and Joe Primm on team and advised by Drs. Annika Mosier and Amanda Weaver
Amount: \$3600
*Received the Outstanding Excellence in Interdisciplinary Sciences Award at RaCAS 2017
- 2015-'16** *Exploring Vietnamese History Through a Charcoal Lens*
Role: UROP Faculty Sponsor of Olga Serenchenko and Christopher Andersen
Amount: \$2400
- 2015-'16** *Product Labeling and Geographic Origins of Colorado Honeyys*
Role: UROP Faculty Sponsor of Ashley Bouck
Amount: \$1200

Unfunded Grant Proposals

- 2018 Project *Apis m.* Honeybee pollen foraging and honey production in a semi-arid agroecosystem. PI Briles
Amount: \$51,401
- 2017 Western Sustainable Agriculture Research and Education Program. *Mitigation of Varroa destructor mites and associated pathogens in honeybee hives in Denver, Colorado.* (pre-proposal). PI Briles; CO-PI Anthamatten, Wee, Mosier
- 2016 Project *Apis m.*, *Evaluation of honeybee health, honey production, and hive maintenance in Flow™ hives and traditional Langstroth hives.* PI Briles; CO-PI Mosier, A.
Amount: \$56,000
- 2016 North Pacific Landscape Conservation Cooperative. *Past forest response to abrupt climate change in a biodiversity hotspot of the Pacific Northwest.* PI Briles
Amount: \$49,000 (routed pre-proposal).
- 2015&'16 National Science Foundation. DRL- Advancing Informal STEM Learning. *Informal STEM learning through interdisciplinary community engagement (I-SLICE).* PI Bryan Wee; CO-PI Briles, Ferrara, Karunanithi, Weaver. Resubmit Nov 2016 for same amount.
Amount: \$300,000
- 2014 National Science Foundation, Geography and Spatial Science Program. *Anthropogenic and climatological influences on late Holocene ecosystems in Northern Vietnam.* (PI Briles; CO-PI Lora Stevens; California State University Long Beach)
Amount: \$622,935
- 2014 CU Denver, Center for Faculty Development, Faculty Development Grant. *Past Fire Regimes and Vegetation Change in Ponderosa Pine Forests on the Northern Colorado Front Range.* (PI Briles)
Amount requested: \$5000
- 2013 CU Denver, Center for Faculty Development, Faculty Development Grant. *Defeating the fleet of Kublai Khan: a paleoenvironmental history.* (PI Briles)
Amount requested: \$10,000

NON-PEER REVIEWED REPORTS & THESES

Note: on all reports with multiple authors from 2017 onward I analyzed samples for pollen and used the data to reconstruct the paleoenvironmental and plant use history of native peoples. along with other proxies collected by the other researchers on the report.

- Puseman, K and **Briles, C.E.** 2019. *Pollen and Macrofloral Analysis at Site Ca-RIV-162, Palm Springs, California.*
- Puseman, K and **Briles, C.E.** 2019. *Pollen and Macrofloral Analysis of Samples from Site EkTb-9, Triquet Island, British Columbia, Canada.* p. 8.
- Puseman, K and **Briles, C.E.** 2019. *Pollen and Macrofloral Analysis of Fill from a Possible Feature at Site 42WS4104, Utah.* p. 18.
- Puseman, K and **Briles, C.E.** 2019. *Pollen and Macrofloral Analysis of Samples from the Toriette Reserve Great Kiva, Site LA 83328, New Mexico.* p. 27.
- Puseman, K, **Briles, C.E.**, Jones, J.G. 2018. *Macrofloral, Pollen, and Phytolith Analyses for Samples from Sites in the Navajo-Gallup Water Supply Project, New Mexico.* p. 139.
- Puseman, K and **Briles, C.E.** 2019. *Macrofloral Analysis at site 5ME13127 and Pollen and Macrofloral Analysis at site 5ME21668, Colorado.* p. 25.

- Briles, C.E.** 2018. *Pollen Analysis of Samples from BPWY.039, Prehistoric Site 48SW19746, Great Divide Basin, Wyoming.* p. 6.
- Puseman, K and **Briles, C.E.** 2017. *Macrofloral and Pollen Analysis of Samples from CA-INY-14NV31, Naval Air Weapons Station, China Lake, CA.* p. 32.
- Puseman, K and **Briles, C.E.** 2017. *Macrofloral and Pollen Analysis of Samples from CA-SDI-14417, Marine Corps Base Camp Pendleton, California.* p. 26.
- Whitlock C. and **Briles, C.E.** 2016. *Ecological History of Douglas-fir and mountain hemlock in northern California.* Final report to the USDA Forest Service, Pacific Southwest Research Station on joint venture agreement 10-JV-11272162-044 (Eric Knapp). p. 8.
- Briles, C.E.** and Del Priore, T. 2014. *Holocene Disturbance Regimes and Vegetation Change in Ponderosa Pine Forests on the Northern Colorado Front Range.* Report to USFS Rocky Mountain Research Station (Paula Fornwalt) and Colorado State University (Tony Cheng). p. 9.
- Briles, C.E.** 2008. *Holocene Vegetation and Fire History of the Floristically Diverse Klamath Mountains, Northern California, USA.* Dissertation, Department of Geography, University of Oregon, Eugene. p. 241.
- Briles, C.E.** 2003. *Postglacial vegetation and fire history near Bolan Lake in the northern Siskiyou Mountains of Oregon.* M.S. thesis, Department of Geography, University of Oregon, Eugene. p. 158.
- Briles, C.E.** 2001. *A Snapshot from the Past – An Environmental History of the Pacific Northwest Forests.* The Ecotone: The Journal of Environmental Studies, The University of Oregon. pp. 4-5.

NON-PEER REVIEWED PUBLICATIONS AND EXHIBITIONS

- Briles, C.E.** 2004. Photograph (spruce pollen grain) in Global Warming: bulletins from a warmer world. *National Geographic.* page 65.

NON-PEER REVIEWED PRESENTATIONS AT MEETINGS/CONFERENCES:

***student**

- Briles, C.E.,** 2019. Bee sustainability and stewardship in a semi-arid urban environment: establishment and results of the CU Denver Bee Project (2016-). Abstracts of the Association of American Geographers 115th Annual Meeting in Washington, D.C. (talk).
- Briles, C.E.,** 2019. Late Holocene Fire-Climate Dynamics in the Klamath-Siskiyou Ecoregion, Northern California. Pacific Climate Workshop -- PACLIM. Pacific Grove, CA.
- Briles, C.E.,** *Morton, Shelley. 2018. Spatial and Temporal Variability of Fire Regimes Across the Biodiverse Klamath-Siskiyou Ecoregion, Northern California, USA. Abstracts of the Association of American Geographers 114th Annual Meeting in New Orleans, LA. (poster).
- *Birdshire, K., **Briles, C.E.,** Carper, A. and Anthamatten, P. 2018. Influences on Wild Bee Richness and Abundance Along an Urban-Rural Gradient. Abstracts of the Association of American Geographers 114th Annual Meeting in New Orleans, LA. (poster).
- *Walker, B., and **Briles, C.E.** 2018. Impacts of mining and climate on a subalpine lake in the central Colorado mountains. Abstracts of the Associations of American Geographers 114th Annual Meeting in New Orleans, LA. (poster).
- Briles, C.E,** *Serenchenko, Olga, Stevens, Lora, White, Adam and Huong, Mai. 2017. Late Holocene Anthropogenic Impacts on Tropical Ecosystems of Northern Vietnam. Abstracts of the Associations of American Geographers 113th Annual Meeting in Boston, MA. (talk)

- Briles, C.E.**, *Serenchenko, O., and *Andersen, C. 2016. 4,000 years of anthropogenic modification of the northern Vietnam Red River Delta. Abstracts of the Association of American Geographers 112th Annual Meeting in San Francisco, CA. (poster)
- *Serenchenko, O., **Briles, C.E.**, and Stevens, L. 1,700 years of anthropogenic influences: an ecosystem study of Northern Vietnam's Van Don Island. Abstracts of the Association of American Geographers 112th Annual Meeting in San Francisco, CA. (poster)
- *Morton, S. and **Briles, C.E.** 2016. A comparison of different age-depth modeling techniques used in lake sediment paleoecological studies. Abstracts of the Association of American Geographers 112th Annual Meeting in San Francisco, CA. (poster)
- *Hickman, Z.K., and **Briles, C.E.** 2016. How has climate change altered the frequency of Colorado Avalanches during the last four millennia? Abstracts of the Association of American Geographers 112th Annual Meeting in San Francisco, CA. (poster)
- Briles, C.E.**, Whitlock, C., *White A. 2015. Spatial pattern of fires across northern California during the Holocene. Abstracts of the Association of American Geographers 111th Annual Meeting in Chicago, IL. (talk)
- *Serenchenko, O., *Andersen, C. and **Briles, C.E.** 2015. Anthropogenic controls on Late Holocene Fire Activity in Northern Vietnam. Abstracts of the Association of American Geographers 111th Annual Meeting in Chicago, IL. (poster)
- *Del Priore, T. and **Briles, C.E.** 2015. 4,000 Years of Environmental Change in Central Colorado: A Paleoecological Perspective. Abstracts of the Association of American Geographers 111th Annual Meeting in Chicago, IL. (talk)
- Briles, C.E.**, Whitlock, C.L., *White, A. 2015. Holocene Fire Activity and Forest Response to Climate Change in Northern California. Pacific Climate Workshop -- PACLIM. Pacific Grove, CA. (invited talk)
- Briles, C.E.** and Bryant, V.B. 2014. Geographic variation of modern pollen in soils and the relationship to vegetation in sagebrush-steppe communities of the western US. Abstracts of the Association of American Geographers 110th Annual Meeting in Tampa, Florida. (poster)
- Olson, H.A., Kusler, J., Wan, E., Starratt, S.W., **Briles, C.E.**, *White, A., *Florentine, C. 2013. Preliminary tephrochronologic and diatom analyses from Hobart lake, Jackson County, Southeastern Oregon, and regional correlations with late Holocene middle and high elevation lacustrine records from the Western US. Pacific Climate Workshop--PACLIM. Pacific Grove, CA. (poster)
- Briles, C.E.**, Whitlock, C.L., Skinner, C.N., and Mohr J.A. 2011. Substrate & Climate Influences on Holocene Forest Development. Pacific Climate Workshop--PACLIM. Pacific Grove, CA. (invited talk)
- Briles, C.E.** and Bryant, V. 2010. Forensic Palynology: using Geography to solve crimes. Abstracts of the Association of American Geographers 106th Annual Meeting. Washington, DC. (talk)
- Briles, CE.** 2008. Environmental factors influencing long-term fire and vegetation history in the Klamath Mountains, northern California. Proceedings of the Pacific Coast Fire Conference: Changing Fire Regimes, Goals and Ecosystems. San Diego, CA. (talk)
- Briles, C.E.**, Whitlock, C. and Bartlein, P.J. 2007. Postglacial vegetation and fire dynamics on different substrates in the Klamath Mountains, northern California. Abstracts of the Association of American Geographers 103rd Annual Meeting. San Francisco, CA. (talk)
- Briles, C.E.**, Whitlock, C. and Bartlein, P.J. 2006. Vegetation and fire response to climate change over the last 15,000 years from sites in different geological settings, Klamath Mountains, northwestern, CA. Proceedings of the 19th biennial meeting of the American Quaternary Association. Bozeman MT. (poster)

- Briles, C.E.**, Whitlock, C. and Bartlein, P.J. 2006. A comparison of vegetation and fire histories from two sites in the Klamath Mountains, northwestern California. Pacific Climate Workshop--PACLIM. Pacific Grove, California. (poster)
- Briles, C.E.**, Whitlock, C. and Bartlein P.J. 2005. Reconstructing a Holocene fire history from a mixed-conifer forest in southwestern Oregon. Fire/Climate Workshop. Flagstaff, AZ. (poster)
- Briles, C.E.**, Whitlock, C. and Bartlein P.J. 2005. Vegetation and fire history from the Siskiyou Mountains, southwestern, OR. Mountain Climate Workshop - MTNCLIM05. Paradise Valley, MT. (poster)
- Briles, C.E.**, Whitlock, C. and Bartlein P.J. 2004. Vegetation and fire history from the biologically diverse Siskiyou Mountains, southwestern Oregon. American Quaternary Association. Lawrence, KS. (poster)
- Briles, C.E.** and Whitlock, C. 2003. Postglacial vegetation and fire history near Bolan Lake in the Northern Siskiyou Mountains of Oregon. Second Conference on Klamath-Siskiyou Ecology. Cave Junction, OR. (talk)
- Briles, C.E.** and Whitlock, C. 2003. A record of Lateglacial and Holocene vegetation, fire, and climate history in the northern Siskiyou Mountains. Abstracts of the Association of American Geographers 99th Annual Meeting. New Orleans, LA. (talk)
- Briles, C.E.** and C. Whitlock. 2002. Vegetation and fire response to postglacial climate change in the Siskiyou forests of southwestern Oregon. Abstracts of the Association of American Geographers 98th Annual Meeting. Los Angeles, CA. (illustrated poster)
- Briles, C.E.** and D. Sullivan. 2000. Late Quaternary Environmental Change in Western Colorado: Results from Close-Interval Sediment Sampling. Abstracts of the American Quaternary Association Biennial Meeting. Fayetteville, Arkansas. (poster)
- Sullivan, D. and **C.E. Briles**. 2000. New Approaches to Paleoenvironmental Research in Western Colorado. Abstracts of the Association of American Geographers 96th Annual Meeting. Pittsburgh, Pennsylvania.
- Briles, C.** and D. Sullivan. 1999. A Late Quaternary Pollen Record from Grand Mesa, Colorado. Abstracts of the Association of American Geographers 95th Annual Meeting. Honolulu, Hawaii. (talk)
- Sullivan, D., N. Smythe, and **C. Briles**. 1998. A Late Quaternary Pollen Record From Grand Mesa, Colorado. Abstracts of the Association of American Geographers 94th Annual Meeting. Boston, MA. (poster)

SEMINARS PRESENTED

- Briles, C.E.** 2015. Journey of a Biogeographer: DU and Beyond. Department of Geography Spring Colloquium, University of Denver. Denver, CO. (invited talk)
- Briles, C.E.** 2015. Holocene Environmental Change: Evidence from the Pacific and Beyond. Department of Geography Roy J. Shelmon Center for Quaternary Studies Spring Speaker Series, University of Wyoming. Laramie, WY. (invited talk)
- Briles, C.E.** and Bryant, V. 2011. Forensic Palynology: why it works. Forensic Workshop, Department of Anthropology, Texas State University. San Marcos, TX. (talk)
- Briles, C.E.** 2010. Ecosystem responses to past climate change: forest management, forensics and the future. Monash University, School of Geography and Environmental Science. Melbourne Australia. (invited talk)

Christy Briles

- Briles, C.E.** 2009. Ecosystem Response to Past Climate Change (talk 1). The Importance of Pollen Data for Climate Change Research (talk 2) Texas A&M University. College Station, TX. (invited talks)
- Briles, C.E.** 2005. Postglacial forest development and fire history from the diverse Klamath Mountains. Department of Earth Science Seminar Series, Montana State University. Bozeman, MT. (invited talk)
- Briles, C.E.** 2005. Vegetation and fire history from the biologically diverse Siskiyou Mountains, southwestern, OR. Lawrence Livermore National Laboratory. Livermore, CA. (invited talk)

PUBLICATIONS IN REVIEW OR IN PREPARATION; *student

- *Subotic, S, *Boddicker, A.M., *Nguyen, V.M., *Rivers, J., **Briles, C.E.**, Mosier, A. in review. Honeybee microbiome associated with different hive and sample types over a honey production season. *PLOSOne*.
- *Birdshire, K., Carper, A., **Briles, C.E.**, Anthamatten, P. in review. Bee community response to local and landscape factors along an urban-rural gradient. *Urban Ecosystems*.
- Briles, C.E.** and *Morton, S. in prep. Spatial and temporal variability of fire regimes across the biodiverse Klamath-Siskiyou Ecoregion, Northern California, USA. *Journal of Ecology*. Submission Fall 2019.
- *Hickman, Z., **Briles, C.E.**, and Gray, A. in prep. Characterizing geomorphic disturbance events in lake sediment records in the central Rocky Mountains. *Geomorphology*. A graduate thesis to publication. Submission spring 2020.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Association of American Geographers (AAG)
Specialty Groups: Biogeography and Paleoenvironmental Change
American Quaternary Association (AMQUA)
The Palynological Society
Geological Society of America (GSA)
Past Global Changes (PAGES)
Global Paleofire Working Group—project member
National Association for Geoscience Teachers (NAGT)

COURSES TAUGHT

CU Denver: Department of Geography and Environmental Science, Denver, CO

ENVS 6800: *Community-Based Research Practicum*
GEOG 6800: *Community-Based Research Practicum*
GEOG/ENVS 4/5731: *Mountain Biogeography*.
GEOG/ENVS 4/5720: *Climate Change: Causes, Impacts and Solutions*
GEOG 3232: *Weather and Climate*
GEOG 1202: *Introduction to Physical Geography*

Monash University: School of Geography and Environmental Science, Melbourne, Australia

- ATS 3791: *Environmental Change: Past to Present.*
ATS 2774: *Understanding Australian Landscapes: Soil-Vegetation Dynamics.*
ATS 1301: *Australian Physical Environments: Evolution, Status and Management.*

Montana State University, Bozeman, MT

- GEOL 590: *Weather, Climate, and Climate Change.* Big Sky Science Partnership Summer Institute at Little Big Horn College, Crow Agency, Montana.
ESCI 490: *Global Climate Change Seminar.* Office of International Programs.
GEOG 302: *Biogeography.* Department of Earth Sciences.

University of Oregon: Department of Geography; Eugene, OR (taught)

- GEOG 4/510: *Oregon Natural Landscapes*
GEOG 143: *Global Environmental Change*
GEOG 141: *Natural Environment*

STUDENT SUPERVISION

(CU Denver students unless noted)

- 2018** Sam Blake. MA in Applied Geography and Geospatial Science. Thesis Committee Chair. Expected graduation Spring/Summer 2020. Thesis title: *Using World View 3 remote sensing data to distinguish tree species within the CU Denver bees foraging range.*
- 2018** Rosemary Downing. MS in Environmental Science. Thesis Committee Chair. Expected graduation Spring/Summer 2020. Thesis title: *Invasive plant species abundance in disturbed areas along trails in Rocky Mountain National Park.*
- 2018** Matthew Davis. BA Geography. Undergraduate research project: *A five thousand-year paleoenvironmental history of Beaver Lake, southeastern San Juan Mountains, CO.*
- 2018** Rebecca Friend. BA Geography. Undergraduate research project: *Japanese Beetle, Bees and Pesticides: Examining the Local Use of Pesticides and their Hazard.*
- 2017** Jeremey Mcclung. MS in Environmental Science. Thesis Committee Chair. Expected graduation Spring 2020. Thesis title: *Late Holocene environmental change of Ha Long Bay using foraminifera and charcoal.*
- 2017** Erin McKay. MS in Environmental Science. Thesis Committee Chair. Expected graduation Spring 2020. Thesis title: *Storm frequency reflected in shallow marine sediments of Ha Long Bay.*
- 2017** Brett Shartzler. MS in Environmental Science. Main Advisor. Non-thesis. Graduated Spring 2019.
- 2017** Ruby Nunez. MS in Environmental Science. Main Advisor. Non-thesis. Graduated Spring 2019.
- 2016** John Steelman. MS in Environmental Science. Independent Study Fall 2018 on environmental history of Taylor Park, CO using tree-rings. Graduated Spring 2018.
- 2016** Caitlin Burke. MS in Environmental Science. Main Advisor. Non-thesis. Graduated Spring 2018.

- 2016** Kristen Birdshire. MS in Environmental Science. Thesis Committee Chair. Graduated December 2018. Thesis title: *Bee community response to local and landscape factors along an urban-rural gradient*. Received the Garden Club of America Pollinator Scholarship (\$4000) and the 2018 AAG Biogeography Specialty Group MS Student Research Award (\$500).
- 2016** Bethany Walker. MS in Environmental Science. Thesis Committee Chair. Graduated May 2019. Thesis title: *Impacts of anthropogenic activity and climate events during the Late Holocene in a subalpine lake ecosystem in central Colorado*. Received a Cushman Foundation Loeblich and Tappan Student Research Award (\$1000), AAG Paleoenvironmental Change Specialty Group Research Award (radiocarbon date ~\$350).
- 2016** Audrey Dignan. MS in Environmental Science. Acting Chair due to Dr. Leo Bruederle retirement (main advisor). Graduated May 2019. Thesis title: *Historical phytogeography of Front Range Physocarpus (Roseaceae)*.
- 2016** Kade Beem. BA Geography. Project/independent study title: *Evaluation of honeybee health, honey production, and hive maintenance in Flow™ hives and traditional Langstroth hives*. Received UROP funding. Won the 2017 RaCAS CLAS Outstanding Excellence in Interdisciplinary Sciences presentation award.
- 2015** Shelley Morton. MS in Environmental Science. Thesis Committee Chair. Graduated December 2017. Thesis titled: *Spatial and temporal variability of fire regimes across the biodiverse Klamath-Siskiyou Ecoregion, Northern California and Southern Oregon, USA*.
- 2015** Katie Prince. MS in Environmental Science. Main Advisor. Non-thesis.
- 2015** Alex Kaufman. MS in Environmental Science. Main Advisor. Non-thesis. Graduated December 2017.
- 2015** Ben Wise. MS in Environmental Science. Committee Member. Graduated Summer 2017. Thesis title: *Community structure of denitrification genes in an acid mine drainage environment*.
- 2014** Zara Hickman. MS in Environmental Science. Committee Chair. Graduated Summer 2017. Thesis title: *Characterizing snow avalanches recorded in lake sediments of central Colorado*. Raised \$5825 in funds through Experiment.com to support thesis research.
- 2014** Olga Serenchenko. BA Geography. Graduated Fall 2016 with department and college honors. Thesis title: *Three thousand years of anthropogenic and climate influences on a tropical island ecosystem, Quan Lan Island, Northern Vietnam*. Received UROP funding.
- 2013** Tera Keller, MS in Environmental Science. Committee Chair. Graduated Spring 2015. Thesis title: *4000 years of environmental change in central Colorado: A paleoecological perspective*. Won the 2015 AAG Paleoenvironmental Change Specialty Group MS Presentation Award.
- 2013** James Sudderth, MS in Environmental Science. Committee Chair. Graduated Fall 2014. Thesis title: *The influence of sodium in recycled water on ponderosa pine in Denver urban parks*.
- 2013** Ashley Bouck. BA Geography. Graduated Fall 2016 with department and college honors. Thesis title: *Do you know where your honey comes from? Product labeling and geographic origins of Colorado honeys using melissopalynologic analysis*. Received UROP funding.
- 2013** Beth Machosky. BA Archeology. Contributed to a paleoenvironmental project from the La Sal Mountains. Graduated Fall 2013.
- 2012** Ben Verbi. BS. Monash University. EnvSci Honours. Committee Chair. Thesis title: *A high-resolution fire and vegetation history from Lake Mumblin, Western Plains of Victoria, Australia*. Completed November 2012.

SERVICE

CU Denver

Service to the Department Unit

- 2018-'19** Chair of TT Climate Science hiring committee (fall/spring)
- 2017-'18** Senior Instructor and TT Climate Science Assistant Professor hiring committee member (fall/spring/summer)
- 2018** Physical Geography Teaching Lab coordinator
- 2018** Peer-Teaching Observation (Liptzen)
- 2017** Helped plan the renovation of the Physical Geography Teaching Lab
- 2017** Temporary Instructor hiring committee member (summer)
- 2017** Updating the MSES degree plan
- 2015-'16** Advisor of the undergraduate Geology minor
- 2015-** Faculty sponsor of Gamma Theta Upsilon and advisor of student group EDGE (Everyday Geographical Experiences)
- 2014-** UCD MS in Environmental Science Graduate Student Admission Committee
- 2014-** Advisor of the MSES Ecosystems option
- 2014-** Advisor of the undergraduate Geography BA Environmental Science option
- 2013-** Lead/or co-lead on a GES capital equipment fund request from CLAS. University of Colorado Denver.
- 2014** Peer-Teaching Observation (Simon)

Service to the College of Liberal Arts and Sciences/CU Denver

- 2019-2021** Faculty Assembly CLAS Representative
- 2017-'18** Reviewer of UROP applications
- 2016-** CLAS Capital Equipment Funds Reviewer
- 2015-'17** CLAS Faculty Council
- 2014-'16** UCD CLAS Academic Ethics Committee
- 2015&17** CLAS Research Innovation Seed Program (CRISP) Grant Reviewer

Service to the Profession

- 2018-2020** Board member of the Association of American Geographers Biogeography Specialty Group
- 2019** Association of American Geographer Conference panelist. *Honeybee Geographies*.
- 2019** Moderator at the 2019 PACLIM meeting
- 2016-2018** Director of the Association of American Geographers Paleoenvironmental Specialty Group
- 2015** Reviewer for geoscience activities to be considered for the *On the Cutting-Edge Project* (NAGT)
- 2015** CIRMOUNT Mountain Views Spring Newsletter contribution to "Voices in the Wind"
- 2015** AAG Biogeography Specialty Group paper presentation judge at the 2015 National Meeting

2014 Association of American Geographer Conference panelist. *Strategies for Acquiring and Succeeding in Post-Doc, Faculty, or Government Positions*. Sponsored by the Paleoenvironmental Specialty Group.

2014 Editorial Board of *Frontiers in Paleoecology*--Reviewer

Service to the Community

2018- Bee swarm wrangler for AHEC and Littleton area

2016- Member of the Mile Hive Bee Club, Denver, CO and participate in educational programs in Denver around honeybees

2016 Speaker for the Colorado Foundation for Agriculture. Agriculture in the Classroom Summer Institute. Presentation on bee ecology and beekeeping.

2014 STEM presentation and activity on bees and pollen for 3rd grade students at Prospect Valley Elementary in Wheat Ridge

Service as Peer-Reviewer for Scholarly Journals and National Funding Agencies

2019 Manuscript review for *Frontiers in Evolution and Ecology*

2018 Manuscript review for *Journal of Geophysical Research: Biogeosciences*

2017 NSF Review for Geography and Spatial Science; journal reviews for the *Anthropocene*

2016 Review for *Environmental Research Letters*, *Geological Society of America* (x2), *Frontiers in Paleoecology*, *Anthropocene*(x2)

2015 Review for *The Holocene*

2014 Reviews for *Frontiers in Paleoecology*, *Quaternary Research*, *The Holocene*

2013 Reviews for *Geology*, *Quaternary Research* and *Rocky Mountain Geology*

Service Prior to CU Denver

2012 Hiring Committee for Lecturer Biogeography/Palaeoecologist and Climatologist in Geography and Environmental Science. Monash University.

2012 Review for *Quaternary International*.

2011 Helped revise the Geography and Environmental Science PhD program curriculum, review the BA degree, and develop an area of study for the BA that integrates past environments and archaeology. Monash University.

2011 Review for *Palaeogeography*, *Palaeoecology*, *Palaeoclimatology*.

2010 NSF Reviews for Geography and Spatial Science (1) and Geoscience Education (2) programs.

2009-

July 2010 Science reader advisor on four master science teacher projects. Master of Science in Science Education Program, Montana State University, Bozeman.

7/2009 Guest lecturer. Big Sky Science Partnership Culture Camp, Redlodge, MT.

4/2008 Volunteer teaching palaeoecology to 4th-grade Native American students. Bozeman, MT.

5/2007 Small Charcoal Workshop Organizer, University of Oregon, Eugene.

8/2006 American Quaternary Association Biennial Meeting Local Arrangements Committee, Montana State University, Bozeman.

2006 Review for *Journal of Paleolimnology*.

Winter 03-

04 Faculty Search Committee graduate representative. Department of Geography, University of Oregon, Eugene.

Fall 2001 Mentor for undergraduate geography majors. University of Oregon, Eugene.

2/2001 Participant for “Success in the Middle,” a program that introduces primary school students to science, University of Oregon, Eugene.

6/2001 Field-trip leader for a Chautauqua workshop on western Colorado and eastern Utah geography.

AWARDS and HONORS

- 2018** Nominated for CU Denver/Anschutz Outstanding Mentoring of Student Research and Creative Activities Award
- 2011** Australian Academy of Sciences Think Tank Travel Award
- 2006** American Quaternary Association’s Denise Gaudreau Award for Excellence in Quaternary Studies
- 2000, 2003, 2004, 2006** University of Oregon Geography Department Graduate Student Research Award
- 2000** American Quaternary Association Travel Award
- 1999** University of Oregon Scholarship
- 1999** United States Geological Survey Star Award
Department of Earth Sciences, Montana State University
Bozeman, MT
- 1999** University of Denver Environmental Science Program Award for Outstanding Scholarship and Research
- 1999** University of Oregon Scholarship
- 1998** University of Denver Alan Bryce Henry Scholarship

Current as of 8/2019