

CHRISTY E. BRILES, PhD



Campus Address

Department of Geography and Environmental Sciences-
University of Colorado Denver
Auraria Campus-North Classroom Building, Room 3208B
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)
Dissertation: *Holocene vegetation and fire history of the floristically diverse Klamath Mountains, northern California, USA*
- 1999-2003 Master of Science: Geography**
(emphasis in paleoecology and biogeography)
University of Oregon (Eugene, OR)
Thesis: *Postglacial vegetation, fire, and climate history of the Siskiyou Mountains of Oregon*
- 1995-1999 Bachelor of Science: Environmental Science**
University of Denver

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

AWARDS and HONORS

- 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

PEER REVIEWED PUBLICATIONS; *student

Briles, C.E. in press. Controls on Mountain Plant Diversity in Northern California: a 14,000 year Overview. *Annals of the Association of American Geographers*. Special Issue 2017 Mountains.

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: 16-27.

Cook, P.L.M., *Jennings, M., Holland, D.P., Beardall, J., **Briles, C.E.**, Atun, Z., Doan, Pl., 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.

*White, A, **Briles, C.E.**, Whitlock, C. 2015. Postglacial vegetation and fire history of the southern Cascade Range, Oregon, USA. *Quaternary Research* 84(3): 348-357.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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., Umbanhower, 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.

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.

Published Abstracts or Proceedings at Refereed Conferences: *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. 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 (in review).

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.**, and 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.

NON-REFEREED MANUSCRIPTS/REPORTS; *student

- 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).
- 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.
- 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.
- 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.,** *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.** 2015. Involving undergraduate students in primary research: examples and student perspectives. Earth Educators' Rendezvous. (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 -- PACCLIM. 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)
- Briles, C.E.,** Whitlock, C.L., Skinner, C.N., and Mohr J.A. 2011. Substrate & Climate Influences on Holocene Forest Development. Pacific Climate Workshop--PACCLIM. 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 Fransisco, 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--PACCLIM. 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)

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 PREPARATION

(in review)

Rathburn, S.L., Bennett, G.L., Wohl, E.E., **Briles, C.E.**, McElroy, B., Sutfin, N. Splitting the seams: The fate of sediment, wood and organic carbon eroded during an extreme flood, Colorado Front Range, USA. *Geology*.

Skinner, C.N., Taylor, A.K., Agee, J.K., **Briles, C.E.**, and Whitlock, C. 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.

(in preparation)

Del Priore, T. and **Briles C.E.** Late Holocene Vegetation and Disturbance History in Central Colorado. *The Holocene*.

Briles, C.E., Whitlock, C., and White, A. Drivers and spatial patterns of Holocene fire activity in northern California. *Earth Science Reviews or International Journal of Wildland Fire*.

Briles, C.E., Stevens, L., and Serenchenko. Societal stability and instability influence on fire activity in northern Vietnam. *PLoS ONE*.

Briles, C.E. and Bryant, V. Modern pollen rain in soils and their relationship to vegetation in sagebrush and steppe communities of the western US. *Review of Palaeobotany and Palynology*.

GRANTS & OTHER FUNDING

External Grants and Contracts

2010-'16 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); funding ends August 2016.
Amount: \$144,000

Competitive Internal Grants and Contracts

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.
Amount: \$10,000

2015-'16 CU Denver, Office of Research Services Large Grant. *Understanding Drivers of Environmental Change in Tropical Ecosystems of Northern Vietnam*.
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*.
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*.
Amount: \$1000

Undergraduate Research Opportunity Program (UROP) Sponsorships

2016-'17 *Honey bee health, honey production, and hive maintenance in Flow™ and traditional Langstroth hives*.
Role: Faculty Sponsor of students Kade Beem; Vy Nguyen and Joe Primm on team and advised by Drs. Annika Mosier and Amanda Weaver
Amount: \$3600

2015-'16 *Exploring Vietnamese History Through a Charcoal Lens*

Role: Faculty Sponsor of students Olga Serenchenko and Christopher Andersen

Amount: \$2400

2015-'16 *Product Labeling and Geographic Origins of Colorado Honeys*

Role: Faculty Sponsor of student Ashley Bouck

Amount: \$1200

Other Funding & Support

2015-'16 2013 Boulder Flood Impact on Ralph Price Reservoir Sedimentation, Longmont, CO.

Amount: \$3300 from Colorado State University (Sara Rathburn).

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.

Unfunded Grant Proposals

2015 National Science Foundation. DRL- Advancing Informal STEM Learning. Informal STEM learning through interdisciplinary community engagement (I-SLICE). Resubmit Nov 2016.

Amount: \$300,000

2014 National Science Foundation, Geography and Spatial Science Program. *Anthropogenic and climatological influences on late Holocene ecosystems in Northern Vietnam.* (PI Christy 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 Christy Briles)

Amount requested: \$5000

2013 CU Denver, Center for Faculty Development, Faculty Development Grant. *Defeating the fleet of Kublai Khan: a paleoenvironmental history.* (PI Christy Briles)

Amount requested: \$10,000

COURSES TAUGHT

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

GEOG/ENVS

4/5731: *Mountain Biogeography*. Fall semesters (start 2015).
Class size: ~12 students.

GEOG/ENVS

4/5720: *Climate Change: Causes, Impacts and Solutions*. Spring semesters.
Class size: ~12 students.

GEOG3232: *Weather and Climate*. Spring and Fall semesters 2013. Fall semester after 2014.
Class size: ~20-30 students.

GEOG1202: *Introduction to Physical Geography*. Spring semester 2014 & 2015. Class size: ~85 students.

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

ATS 3791: *Environmental Change: Past to Present*. First semester 2012. Unit coordinator and co-instructor.
Class size: 25 undergraduate students

ATS 2774: *Understanding Australian Landscapes: Soil-Vegetation Dynamics*. Second semester 2011. Unit coordinator and co-instructor.
Class size: 47 undergraduate students

ATS 1301: *Australian Physical Environments: Evolution, Status and Management*. Second semester 2011. Co-instructor.
Class size: 120 undergraduate students.

Montana State University

GEOL 590: *Weather, Climate, and Climate Change*. Big Sky Science Partnership Summer Institute, Montana State University and Little Big Horn College, Crow Agency, Montana, June 9-11, 2008; continuation through Fall 08 semester.
Class size: 16 3rd-8th grade native and non-native teachers

ESCI 490: *Global Climate Change Seminar*. Office of International Programs. Montana State University, Bozeman. Spring 09 semester.
Class size: 14 graduate and undergraduate students

GEOG 302: *Biogeography*. Department of Earth Sciences, Montana State University, Bozeman. January 2008 to May 2008 (spring semester). Co-instructor.
Class size: 30 undergraduate students

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

GEOG 4/510: *Oregon Natural Landscapes*. July 2004 to August 2004 (summer term).
Class Size: 13 undergraduate and graduate students

GEOG 143: *Global Environmental Change*. July 2002 and 2003 to August 2002 and 2003(summer term), March 2003 to June 2003(spring term).
Class size: 143 undergraduate students spring term; 30 students summer terms

GEOG 141: *Natural Environment*. June 2007 to July 2007(summer term).
Class Size: 18 undergraduate students

(teaching assistant; all for Department of Geography, University of Oregon, Eugene)

GEOG 4/516: *Introduction to Geographic Information Science* (Spring 2007)

GEOG 322: *Geomorphology* (Summer 2001)

GEOG 143: *Global Environmental Change* (Spring 2001)

GEOG 201: *World Regional Geography* (Winter 2001)

GEOG 141: *Natural Environment* (Fall 2000)

GEOG 142: *Human Geography* (Spring 2000)

GEOG 203: *Geography and the Environment* (Winter 2000)

GEOG 321: *Climatology* (Fall 1999)

STUDENT SUPERVISION

(CU Denver students unless noted)

- 2016** Bethany Walker. MS in Environmental Science. Committee Chair.
- 2015** Shelley Morton. MS in Environmental Science. Committee Chair.
- 2015** Alex Kaufman. MS in Environmental Science. Incoming advisor.
- 2014** Zara Hickman. MS in Environmental Science. Committee Chair.
- 2014** Olga Serenchenko. BA Geography. Pursuing a paleoenvironmental undergraduate thesis from northern Vietnam. Finishing Fall 2016 with honors.
- 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*.
- 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. Pursuing an undergraduate thesis on pollen in honey from Colorado. Finishing Fall 2016 with honors.
- 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

- 2015-** Advisor of the undergraduate Geology minor
- 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 the GES capital equipment fund request to CLAS.
- 2016** Faculty Participant for the CU Denver Majors Fair
- 2014, '16** Peer-Teaching Observations

Service to the College of Liberal Arts and Sciences (CLAS)

- 2015-** CLAS Faculty Council
- 2014-'16** UCD CLAS Academic Ethics Committee
- 2015** CLAS Research Innovation Seed Program (CRISP) grants evaluator

Service to the Profession

- 2016-** Director of the Paleoenvironmental Specialty Group of the Association of American Geographers.
- 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

- 2016-** Speaker for the Colorado Foundation for Agriculture. Agriculture in the Classroom Summer Institute. Presentation on bee ecology and beekeeping.
- 2014-16** 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

- 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.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Association of American Geographers (AAG)

 Specialty Groups: Biogeography and Paleoenvironmental Change

American Quaternary Association (AMQUA)

American Geophysical Union (AGU)

The Palynological Society

Christy Briles

Past Global Changes (PAGES)

Global Paleofire Working Group—project member

National Association for Geoscience Teachers (NAGT)

Current as of : 11/12/2016