

Colin J. Long

CONTACT INFORMATION

Department of Geography and Urban Planning
 University of Wisconsin Oshkosh
 Oshkosh WI, 54901-8642
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 longco@uwosh.edu

EDUCATION

University of Oregon, B.S. 1977 (Biology); M.A. 1996 (Geography); Ph.D. 2003 (Geography)

RESEARCH INTERESTS

Disturbance regimes, Paleoecology, Quaternary environmental change,

TEACHING INTERESTS

Environmental Change, Biogeography, Physical Geography

EMPLOYMENT HISTORY

University of Wisconsin Oshkosh, Department of Geography and Urban Planning: Assistant Professor (Sept. 2005 to present). Introductory physical geography; biogeography; long-term environmental change; natural resource management; field methods; environmental conservation; environmental policy, science, and problem solving

University of Oregon, Department of Geography: Research Associate (post-doc) (Jan. 2005 - March 2005), Holocene environmental reconstruction of central Cascades. Adjunct Faculty/Instructor (Sept. 2003 – Jan. 2005), introductory physical geography, long term environmental change, geography of Oregon, geographic field methods. Instructor (June 2001 - Dec. 2001; Sept. 2000 - Dec. 2000; Sept. 1999 - Dec. 1999; June 1998 - Aug. 1998; June 1997 - Aug. 1997), Introductory physical geography, global environmental change, cartography, geomorphology, Oregon's natural landscapes. Graduate Research Associate (June 1993 - June 1997), fire history reconstruction of Oregon Coast Range.

Oregon State University, Department of Math and Science Education: Content Co-coordinator Willamette Valley Ecology Professional Development Project (June 2004 - July 2005). Consultant, Mammoth Park Teacher Professional Development Project (June 2003 - July 2003; June 2002 - July 2002), provide field-based science experiences for K-12 science teachers.

Sonoma State University, Department of Geography: Visiting Instructor (Jan. 2000 - June 2000), Introductory physical geography, biogeography, American west.

PUBLICATIONS

Long, C. J., Power M. J. and Bartlein P. J. 2010. The effects of fire and tephra deposition on forest vegetation in the Central Cascades, Oregon. *Quaternary Research* DOI 10.1016/j.yqres.2010.08.010.

Long, C. J., Power, M. J. and McDonald B. L. accepted. Millennial-scale fire and vegetation change in a mesic hardwood forest of southeastern Wisconsin. *Journal of Quaternary Science*

Marlon, J., 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., Brunelle, A., Carcaillet, C., Daniels, M., Hu, F.S., Lavoie, M., **Long, C.**, Minckley, T., Richard, P.J.H., Scott, A.C., Shafer, D.S., Tinner, W., Umbanhowar, C.E. Jr., and 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.

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., Vanniore, B., Vescovi, E., Walsh, M., Wang, X., Williams, N., Wilmshurst, J., and Zhang, J.H. 2008. Changes in fire activity since the LGM: an assessment based on a global synthesis and analysis of charcoal data. *Climate Dynamics* 30, 887-907.

Whitlock, C. Bartlein, P, Briles, C., Brunelle, A., **Long C. J.**, Marlon J. 2008. Long-term relations between fire, fuel, and climate in the northwestern U.S. *International Journal of Wildland Fire* 17, 72-83.

Long, C.J., Whitlock, C., and Bartlein P. J. 2007. Holocene vegetation and fire history of the Coast Range, western Oregon, USA. *The Holocene* 17: 917-926.

Whitlock, C., Bartlein, P., Marlon, J., Brunelle, A., **Long, C.** 2003. Holocene fire reconstructions from the northwestern U.S.: an examination at multiple time scales. *5th Symposium on Fire and Forest Meteorology, and 2nd International Wildland Fire Ecology and Fire Management Congress*. American Meteorological Society, 16-20.

Long, C. J., and Whitlock, C. 2002. Fire and vegetation history from the coastal rain forest of the western Oregon Coast Range. *Quaternary Research* 58, 215-225.

Wimberly, M. C., Spies, T. A., **Long, C. J.**, and Whitlock, C. 2000. Simulating historical variability in the amount of old forests in the Oregon Coast Range. *Conservation Biology* 14, 167-180.

Long, C. J., Whitlock, C., Bartlein, P. J., and Millspaugh, S. H. 1998. A 9000-year fire history from the Oregon Coast Range, based on a high-resolution charcoal study. *Canadian Journal of Forest Research* 28, 774-787.

INVITED PRESENTATIONS AND SELECTED CONFERENCE PAPERS (Since 2004)

“2000-year fire activity from a southern mesic forest of Wisconsin, USA” J Mueller (student) and C. J. Long. American Quaternary Association Biennial Meeting, Laramie, August 2010.

“5000-year environmental history from the Mountain Hemlock zone of the Cascade Range, Oregon, USA”. A Larsen (student) and C.J. Long. American Quaternary Association Biennial Meeting, Laramie, August 2010.

“Millennial-scale fire history from the mesic hardwood forests of southeastern Wisconsin” C. J. Long, M. Power, B. L. McDonald. Association of American Geographers Annual Meeting, Washington D.C. April 2010.

“The Usefulness of Paleoecological Data in Forest Management Decisions” C. J. Long. invited presentation, Department of Geology, University of Wisconsin Oshkosh, December 2009.

“Fire and vegetation relations over the last 30,000 years at Little Lake, Oregon,” C. J. Long and M. J. Power. Association of American Geographers Annual Meeting, Las Vegas, March 2009.

“A 2500-year Fire History Comparison from Three Sites in the Central Cascade Range, Oregon,” C. J. Long and A. L. Hass. American Quaternary Association Biennial Meeting, University Park, June 2008.

“Multi-site Holocene-scale fire history from the central Cascade Range, Oregon,” C. J. Long and A. L. Hass. Association of American Geographers Annual Meeting, Boston, April 2008.

“The response of forest vegetation to multiple disturbance agents in the Central Cascades Oregon,” C. J. Long and P. J. Bartlein. Association of American Geographers, Annual Meeting, San Francisco, April 2007.

“Pacific Northwest Fires, Volcanoes and Forests: Evidence from the past informing the future.” C. J. Long, invited presentation. Yi-Fu Tuan Lecture series, University of Wisconsin Madison, March 2007.

“Millennial-scale fire histories from the Pacific Northwest: perspectives from the past informing the future.” C. J. Long invited presentation. College of Letters and Science Dean’s Symposium, University of Wisconsin Oshkosh, September 2006.

“12,000-year Vegetation and Disturbance History from the Central Cascade Range, Oregon,” C.J. Long, J. L. Fournier and A. L. Hass. Association of American Geographers, Annual Meeting, Chicago, March 2006

“Millennial scale environmental history of the Central Cascades Range, Oregon,” C. J. Long and P. J. Bartlein. Association of American Geographers Annual Meeting, Denver, March 2005

“Millennial- to decadal-scale fire and vegetation history of the southern temperate rain forest, northwestern North America,” C. J. Long, C. Whitlock, and P. J. Bartlein, invited presentation. Ecological Society of America, Annual Meeting, Portland, August 2004.

“Breaking Pedagogical Practices: Learning from Experiences with K-12 Teachers,” E. Gummer, J. Ford, C. J. Long. National Science Teachers Association Area Convention, Seattle, November 2004.

FUNDED RESEARCH AT UNIVERSITY OF WISCONSIN OSHKOSH

Title	Start Date	Duration	Source	UWO Budget
Millennial-scale fire history from a Mountain hemlock forest Oregon Cascade Range	6-2006	3 months	UWO Student Faculty Research	\$3,000
Millennial-scale fire history from Grand fir forests Oregon Cascade Range	4-2007	10 months	UWO Faculty Development	\$11,768

Fire and vegetation history from Blue Mountains Oregon	12-2007	3 months	AAG Research Grant	\$920
Millennial-scale fire history form Kettle Moraine State forest, Wisconsin	4-2008	10 months	UWO Faculty Development	\$14,320
Long-term fire history from Oregon Cascade Range	6-2009	3 months	UWO Student Faculty Research	\$3,000
Not Funded				
Collaborative Research: Historical variability of forest fire at multiple scales in the central Oregon High Cascades (D. Gavin, P. Bartlein, J. Meacham P.I.'s)	8-2009	2 years	NSF Geography and Spatial Sciences	\$82,130
Other funded activities				
Permanent Property Requests Department of Geography Magnetic susceptibility meter, sensor and core track	5-2008		UWO College of Letters and Science	\$10,520

PROFESSIONAL MEMEBERSHIPS

Association of American Geographers
 American Quaternary Association
 Geological Society of America

MANUSCRIPT REVIEWS

The Holocene, Quaternary Research, Physical Geography, Madroño, Geographical Review

PROPOSAL REVIEWS

National Science Foundation: Geography and Regional Science Program, Ecosystems Studies Program, UW Oshkosh Faculty Development Program

OTHER PROFESSIONAL SERVICE

2010-present Secretary of the American Quaternary Association

2008-2010 Biogeography Specialty Group Executive Board member, Association of American Geographers

Organizer and leader for ESA field trip: Fire Ecology from Oak Savannah to Alpine Forests ESA Annual meeting, Portland, OR. August 2004.

COURSES TAUGHT AT UNIVERSITY OF WISCONSIN OSHKOSH

2005-06 121(S) 122 (F, S) 363 (F) 414 (F)
 2006-07 121 (S) 122 (F, S) 363 (F) 414 (F) 461 (S) ES 395 (SU)
 2007-08 121 (S) 122 (F, S) 363 (F) 414 (F)
 2008-09 121 (S) 122 (F, S) 414 (F) 461 (S) ES 395 (S)
 2009-10 121 (F) 122 (F,S) 363 (F) 461 (S) 314 (S)
 2010-11 122 (F), 414 (F) ES 370 (F)

Geography Department

GEOG 121 Weather and Climate
 GEOG 122 Landforms and Soils
 GEOG 314 Environmental Conservation
 GEOG 363 Biogeography
 GEOG 414 Natural Resource Management
 GEOG 461 Advanced Topics in Physical Geography

Environmental Studies Program

ES 370 Environmental Policy, Science, and Problem Solving
 ES 395 Field Methods

GRADUATE STUDENT TRAINING

Committee member

Stone, T. (2007) A description of the diatom assemblages from a sediment core from lake Tumalo (Central Cascades of Oregon) in relationship to regional volcanic activity. MS Thesis, University of Wisconsin Oshkosh, Biology Department 78 p.

UNIVERSITY SERVICE

2006 - 09 Intercollegiate Athletic Committee (Chair 2008-2009)
 2007 - 09 Geography and Urban Planning representative on New Academic Building Committee
 2007 - 08 Faculty representative on Search and Screen committee Director of Testing Services
 2010 Faculty representative on Search and Screen committee Assistant Vice Chancellor of Lifelong Learning and Community Engagement

DEPARTMENTAL SERVICE

2005 - Faculty advisor to the Geographical Club
 2005 - Faculty advisor to 10-15 Geography undergraduate majors yearly from 2005
 2007 - Map Library Coordinator