

Patrick J. Bartlein

CONTACT INFORMATION

Department of Geography, University of Oregon, Eugene, Oregon 97403-1251; (541) 346-4555 -4967 (office); email: bartlein@uoregon.edu; www: <http://geog.uoregon.edu/bartlein/> ResearcherID: E-4643-2011; Orcid: 0000-0001-7657-5685; [Google Scholar](#)

EDUCATION

Univ. Wisconsin -- Madison, (Geography) B.A. June 1972; M.S. June 1975; Ph.D. August 1978

RESEARCH INTERESTS

Paleoclimatology; Data Analysis and Visualization; Environmental Modeling

TEACHING INTERESTS

Climatology; Environmental Change; Data Analysis and Visualization in Geography

POSITIONS HELD

University of Oregon, Department of Geography: Professor (Sept. 1994 - present), Associate Professor (April 1986 - Sept. 1994), Assistant Professor (Sept. 1982 - April 1986); Brown University, Department of Geological Sciences: Research Associate and Visiting Assistant Professor (Research) (May 1981 - Aug. 1984); Boston University, Department of Geography: Assistant Professor (Sept. 1979 - Aug. 1982). Center for Energy and Environmental Studies: Research Associate (Sept. 1980 - Aug. 1982); University of Iowa, Department of Geography: Visiting Assistant Professor (Jan. 1979 - May 1979); University of Wisconsin -- Madison, Institute for Environmental Studies: Research Associate (post-doc) (Sept. 1978 - Aug. 1979).

DEPARTMENTAL AND UNIVERSITY SERVICE

Graduate Council (1991-1993); UO Educational Technology Committee (2007); College of Arts and Science Curriculum Committee (2005-2007); University Undergraduate Council (2006-2007); outside member, Mikesell Chair (Economics) search committee (2001); multiple departmental search committees. Personnel and Promotion-and-Tenure Committees: Department of Geography Personnel Committee (1997-2002, 2006-present); College of Arts and Sciences Dean's Advisory Committee (2011-2013, Chair 2012-2013) University Faculty Personnel Committee (1998-2000; 2014-2015)

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science; American Geophysical Union; American Quaternary Association; American Association of Geographers

EDITORIAL BOARD SERVICE

Current: *Quaternary Research* (Associate Editor); *Annals*, Association of American Geographers, Past: *The Holocene* (Associate Editor); *Quaternary Science Reviews*; *Geology*

MANUSCRIPT REVIEWS

Annals, Association of American Geographers, *Climates of the Past*, *Climate Dynamics*, *Ecology*, *Geographie Physique et Quaternaire*, *Geological Society of America Bulletin*, *Geology*, *Global Change Biology*, *The Holocene*, *J. Biogeography*, *J. Geophysical Research*, *J. Vegetation Science*, *Nature*, *PNAS*, *Professional Geographer*, *Quaternary Research*, *Quaternary Science Reviews*, *Reviews of Geophysics*, *Science*, *Water Resources Bulletin*.

PROPOSAL REVIEWS

National Science Foundation: Climate Dynamics Program, Division of Polar Programs, Ecology Program, Geography and Regional Science Program, Division of Earth Sciences, Instrumentation and Facilities, Continental Hydrologic Processes, Earth-System History Program, Arctic System Science, Paleoclimatology Program. NOAA: Office of Global Programs. European Science Foundation. Natural Environment Research Council

GRADUATE AND POST-GRADUATE STUDENT TRAINING

Post-doctoral advisor (2); Ph.D. (12 as chair, 20 as committee member) Masters (8 as chair, 32 as committee member)

HONORS

Fellow, American Association for the Advancement of Science, 2008; American Quaternary Association (AMQUA) Distinguished Career Award, 2016; American Association of Geographers (AAG) Distinguished Scholarship Honors, 2017.

RECENT PUBLICATIONS (199 total; WOS: 150 indexed, 12,450 citations, h-index: 64)

- Marsicek, J., B.N. Shuman, P.J. Bartlein, S.L. Shafer & S. Brewer, 2018, Reconciling divergent trends and millennial variations in Holocene temperatures. *Nature* 554:92
- Bartlein, P.J., S.P. Harrison and K. Izumi, 2017, Underlying causes of Eurasian mid-continental aridity in simulations of mid-Holocene climate, *Geophysical Research Letters*. DOI:10.1002/2017GL074476
- Marlon, J.R., R. Kelly, A.L. Daniau, B. Vannière, M.J. Power, P. Bartlein, P. Higuera, O. Blarquez, S. Brewer, T. Brücher, A. Feurdean, G.G. Romera, V. Iglesias, S.Y. Maizumi, B. Magi, C.J. Courtney Mustaphi & T. Zhihai, 2016, Reconstructions of biomass burning from sediment-charcoal records to improve data-model comparisons. *Biogeosciences* 13:3225-3244.
- Shafer, S.L., P.J. Bartlein, E.M. Gray & R.T. Pelltier, 2015, Projected Future Vegetation Changes for the Northwest United States and Southwest Canada at a Fine Spatial Resolution Using a Dynamic Global Vegetation Model. *Plos One* <http://dx.doi.org/10.1371/journal.pone.0138759>
- Bartlein, P.J., M.E. Edwards, S.W. Hostetler, S.L. Shafer, P.M. Anderson, L.B. Brubaker, and A.V. Lozhkin, 2015, Early-Holocene warming in Beringia and its mediation by sea-level and vegetation changes. *Climate of the Past*, 11:1197-1222.
- Harrison, S.P., P.J. Bartlein, K. Izumi, G. Li, J. Annan, J. Hargreaves, P. Braconnot and M. Kageyama, 2015, Implications of evaluation of CMIP5 palaeosimulations for climate projections. *Nature Climate Change* 8:735-743.
- Izumi, K., Bartlein, P.J., Harrison, S.P., 2015. Energy-balance mechanisms underlying consistent large-scale temperature responses in warm and cold climates. *Climate Dynamics*. 44:3111-3127. DOI 10.1007/s00382-014-2189-2
- Gavin, D.G., Fitzpatrick, M.C., Gugger, P.F., Heath, K.D., Rodriguez-Sanchez, F., Dobrowski, S.Z., Hampe, A., Hu, F.S., Ashcroft, M.B., Bartlein, P.J., Blois, J.L., Carstens, B.C., Davis, E.B., de Lafontaine, G., Edwards, M.E., Fernandez, M., Henne, P.D., Herring, E.M., Holden, Z.A., Kong, W.-s., Liu, J., Magri, D., Matzke, N.J., McGlone, M.S., Saltre, F., Stigall, A.L., Tsai, Y.-H.E., Williams, J.W., 2014. Climate refugia: joint inference from fossil records, species distribution models and phylogeography. *New Phytologist* 204, 37-54.
- Harrison, S.P., Bartlein, P.J., Brewer, S., Prentice, I.C., Boyd, M., Hessler, I., Holmgren, K., Izumi, K., Willis, K., 2014. Climate model benchmarking with glacial and mid-Holocene climates. *Climate Dynamics* 43, 671-688.
- Praskievicz, S., Bartlein, P., 2014. Hydrologic modeling using elevationally adjusted NARR and NARCCAP regional climate-model simulations: Tucannon River, Washington. *Journal of Hydrology* 517, 803-814.
- Bartlein, P.J., S.W. Hostetler, J.R. Alder, 2014, Paleoclimate, Ch. 1 in G. Ohring (ed.), *Climate Change in North America*, Regional Climate Studies, Springer, DOI: 10.1007/978-3-319-03768-4_1
- Schmidt, G.A., J.D. Annan, P.J. Bartlein, B.I. Cook, E. Guilyardi, J.C. Hargreaves, S.P. Harrison, M. Kageyama, A.N. LeGrande, B. Konecky, S. Lovejoy, M.E. Mann, V. Masson-Delmotte, C. Risi, D. Thompson, A. Timmermann, L.B. Tremblay & P. Yiou, 2014, Using palaeo-climate comparisons to constrain future projections in CMIP5. *Clim. Past* 10:221-250.
- Harrison, S.P., P.J. Bartlein, S. Brewer, I.C. Prentice, M. Boyd, I. Hessler, K. Holmgren, K. Izumi, K. Willis, 2013, Climate model benchmarking with glacial and mid-Holocene climates. *Climate Dynamics*. DOI 10.1007/s00382-013-1922-6
- Izumi, K., P.J. Bartlein and S.P. Harrison, 2013, Consistent large-scale temperature responses in warm and cold climates, *Geophysical Research Letters*, DOI: 10.1002/grl.50350
- Marlon, J.R. P.J. Bartlein, A.-L. Daniau, S.P. Harrison, S.Y. Maizumi, M.J. Power, W. Tinner, B. Vannière, 2013, Global biomass burning: a synthesis and review of Holocene paleofire records and their controls. *Quaternary Science Reviews* 65:5-25
- Daniau, A.-L., P.J. Bartlein, S.P. Harrison and 57 others, 2012, Predictability of biomass burning in response to climate changes, *Global Biogeochemical Cycles* 26, GB4007, doi:10.1029/2011GB004249.
- Braconnot, P., S.P. Harrison, M. Kageyama, P.J. Bartlein, V. Masson-Delmotte, A. Abe-Ouchi, B. Otto-Bliesner & Y. Zhao, 2012, Evaluation of climate models using palaeoclimatic data. *Nature Climate Change* 2:417-424, doi:10.1038/nclimate1456.
- Clark, P.U., J.D. Shakun, P.A. Baker, P.J. Bartlein, S. Brewer, E. Brook, A.E. Carlson, H. Cheng, D.S. Kaufman, Z. Liu, T.M. Marchitto, A.C. Mix, C. Morrill, B.L. Otto-Bliesner, K. Pahnke, J.M. Russell, C. Whitlock, J.F. Adkins, J.L. Blois, J. Clark, S.M. Colman, W.B. Curry, B.P. Flower, F. He, T.C. Johnson, J. Lynch-Stieglitz, V. Markgraf, J. McManus, J.X. Mitrovica, P.I. Moreno & J.W. Williams, 2012, Global climate evolution during the last deglaciation. *Proceedings of the National Academy of Sciences* doi:10.1073/pnas.1116619109
- Marlon, J.R., P.J. Bartlein, D.G. Gavin, C.J. Long, R.S. Anderson, C.E. Briles, K.J. Brown, D. Colombaroli, D.J. Hallett, M.J. Power, E.A. Scharf & M.K. Walsh, 2012, Long-term perspective on wildfires in the western USA. *Proceedings of the National Academy of Sciences* 109:E535-E543.