

Patrick J. Bartlein

CONTACT INFORMATION

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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 (AAAS), 2008; American Quaternary Association (AMQUA) Distinguished Career Award, 2016; American Association of Geographers (AAG) Distinguished Scholarship Honors, 2017.

RECENT PUBLICATIONS

(WOS: 253 indexed, 24,831 citations, h-index: 84; Google Scholar: 34,731 citations, h-index: 96)

Clark, P. U., J. D. Shakun, Y. Rosenthal, P. Koehler, and P. J. Bartlein, 2024, Global and regional temperature change over the past 4.5 million years. *Science*, 383. <https://doi.org/10.1126/science.adi1908>

Holliday, V. T., T. L. Daulton, P. J. Bartlein, M. B. Boslough, R. P. Breslawski, A. E. Fisher, I. A. Jorgeson, A. C. Scott, C. Koeberl, J. R. Marlon, J. Severinghaus, M. I. Petaev, and P. Claeys, 2023, Comprehensive refutation of the Younger Dryas Impact Hypothesis (YDIH). *Earth-Science Reviews*, 247. <https://doi.org/10.1016/j.earscirev.2023.104502>

Otto-Bliesner, B.L. Brady, E.C., Tomas, R.A., Albani, S., Bartlein, P.J., Mahowald, N.M., Shafer, S.L., Kluzek, E., Lawrence, P.J., Leguy, G., Rothstein, M., Sommers, A.N. 2020, A Comparison of the CMIP6 midHolocene and lig127k Simulations in CESM, *Paleoceanography and Paleoclimatology* 11 e2020PA003957, <http://doi.org/10.1029/2020PA003957>

Brierley, C. M., Zhao, A., Harrison, S. P., Braconnot, P., Williams, C. J. R., Thornalley, D. J. R., Shi, X., Peterschmitt, J.-Y., Ohgaito, R., Kaufman, D. S., Kageyama, M., Hargreaves, J. C., Erb, M. P., Emile-Geay, J., D'Agostino, R., Chandan, D., Carré, M., Bartlein, P., Zheng, W., Zhang, Z., Zhang, Q., Yang, H., Volodin, E. M., Tomas, R. A., Routson, C., Peltier, W. R., Otto-Bliesner, B., Morozova, P. A., McKay, N. P., Lohmann, G., Legrande, A. N., Guo, C., Cao, J., Brady, E., Annan, J. D., and Abe-Ouchi, A.: in review, 2020, Large-scale features and evaluation of the PMIP4-CMIP6 midHolocene simulations, *Clim. Past.* 16:1847-1872, <https://doi.org/10.5194/cp-2019-168>

Holiday, V.T., P.J. Bartlein, A.C. Scott, J.R. Marlon, 2020, Extraordinary biomass-burning episode and impact winter triggered by the Younger Dryas cosmic impact ~ 12.800 years ago, Parts 1 and 2: a discussion. *J. Geology* 128:69-94. <https://doi.org/10.1086/706264>

Bartlein, P.J., and S.L. Shafer, 2019, Paleo calendar-effect adjustments in time-slice and transient climate-model simulations (PaleoCalAdjust v1.0): impact and strategies for data analysis. *Geosci. Model Dev.* 12:3889-3913.

Harrison, S. P., Bartlein, P. J., Brovkin, V., Houweling, S., Kloster, S., & Prentice, I. C. (2018). The biomass burning contribution to climate-carbon-cycle feedback. *Earth Syst. Dynam.*, 9(2), 663-677.

Hostetler, S.W., P.J. Bartlein and J.R. Alder, 2018, Atmospheric and surface climate associated with 1986–2013 wildfires in North America. *Journal of Geophysical Research: Biogeosciences*, 123(5), 1588-1609.

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. Vanni re, M.J. Power, P. Bartlein, P. Higuera, O. Blarquez, S. Brewer, T. Br ucher, A. Feurdean, G.G. Romera, V. Iglesias, S.Y. Maezumi, 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.

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

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.

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. Maesumi, M.J. Power, W. Tinner, B. Vanni re, 2013, Global biomass burning: a synthesis and review of Holocene paleofire records and their controls. *Quaternary Science Reviews* 65:5-25

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.

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.