

# JENNIFER R. MARLON

*Research Scientist*

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## EDUCATION

- 2009 Ph.D., Geography, University of Oregon  
2003 M.S., Geography, University of Oregon  
1991 B.S., University at Albany, State University of New York

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## PROFESSIONAL EXPERIENCE

- 2012 – present Associate Research Scientist, School of Forestry & Environmental Studies, Yale University, New Haven, CT  
2012 – 2013 Postdoctoral Research Associate, Botany, University of Wyoming, Laramie, WY  
2010 – 2012 NSF Earth Sciences Postdoctoral Research Fellow, Dept. of Geography, University of Wisconsin-Madison, WI  
2009 – 2010 Postdoctoral Research Associate, Dept. of Political Science, University of Oregon, OR  
2005 – 2008 Research Assistant, Dept. of Political Science, University of Oregon, OR  
2003 – 2004 Research Assistant, Dept. of Geography, University of Oregon, OR  
2000 – 2002 Instructor, Geographic Information Systems (GIS), Dept. of Geography, University of Oregon  
1998 – 2000 Project Manager, Broadcast Software International, Eugene, Oregon  
1994 – 1997 Production & QA Manager (CA & NY offices), Electronic Legal Publishing, West Group, San Francisco, CA  
1992 – 1993 Analyst, Sierra Health Services, Las Vegas, NV  
1991 – 1992 Management Consultant, Ernst & Young, New York, NY

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## RESEARCH GRANTS & AWARDS

- 2016 City of Milford Health Department (P.I.): "*Medical Reserve Corps Volunteer Survey for Emergency Preparedness*" (\$10,000)  
2015-2017 NSF Award (Co-P.I.): "*Collaborative Research: Multi-scale Modeling of Public Perceptions of Heat Wave Risk*" (\$223,141)  
2014-2017 NSF Award (Lead P.I.): "*Collaborative Research: Testing hypotheses about fire using paleodata syntheses and fire modeling*" (\$114,291)  
2014-2015 NOAA Award (Lead P.I.): "*An audience segmentation analysis of Connecticut coastal residents to support storm preparedness*" (\$149,883)  
2013-2016 NSF Award (Co-P.I.): "*Collaborative Research and NEON: MSB Category 2: PaleON – a PaleoEcological Observatory Network to assess terrestrial ecosystem models*" (\$98,897)

- 2010-2012 NSF EAR Postdoctoral Fellowship Award: "*Understanding the coupled response of vegetation and fire to climatic variation since the Last Glacial Maximum*" (\$170,000)
- 2008 University of Oregon Doctoral Research Fellowship: "*Fires of the past: syntheses from sedimentary charcoal data*" (\$18,000)
- 2008 University Scholarship (\$1800)
- 2007-2008 National Science Foundation: Doctoral Dissertation Improvement Grant: "*Global fire since the Last Glacial Maximum*" (\$7585)
- 2007 National Science Foundation travel award for early-career scientists to attend the XVII INQUA Congress, Cairns, Australia (\$2300)
- 2007 Department of Geography Summer Field Work Scholarship (\$500)
- 2005-2006 University Scholarship (\$1800)
- 2004 AAG Biogeography Specialty Group Award: Best Ph.D. Paper/Poster (\$100)
- 2004 Department of Geography Travel Award (\$500)
- 2002-2003 University Scholarship (\$1500)
- 2001-2002 University Scholarship (\$2800)
- 2001 Department of Geography Travel Award (\$500)

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## PEER-REVIEWED PUBLICATIONS

- Mildenberger, M., Howe, P.D., **Marlon, J.R.**, Leiserowitz, A. (submitted). The spatial distribution of U.S. Republican climate and energy opinions at state and local scales. *Climatic Change Letters*.
- Zhang, B., Mildenberger M., Howe P.D., **Marlon, J.R.**, Rosenthal S., Leiserowitz A. (in review). Quota sampling using Facebook advertisements. *Political Science Research Methods*.
- Zhang B., Mildenberger M., van der Linden S., **Marlon, J.R.**, Howe P.D., Leiserowitz A., (in review). Spatial variability in the experimental effects of climate messages.
- Hawthorne, D., Mustaphi, C.J.C., Aleman, J., Blarquez, O., Colombaroli, D., Daniau, A-L., **Marlon, J.R.**, Power, M., Vanniere, B., Carcaillet, C., Githumbi, E.N., Han, Y., Hantson, S., Kehrwald, N. Magi, B., Marchant, R., Ayodele, O., Muriuki, R., Yue, X. (in review). The modern Global Charcoal Database (mGCD): a tool to examine fire-proxy relationships, emissions, and spatial patterns of biomass burning. *Quaternary International*. <https://doi.org/10.1016/j.quaint.2017.03.046>
- Itter, M., Finley, A.O., Hooten, M.B., Higuera, P.E., **Marlon, J.R.**, Kelly, R., McLachlan, J.S. (2017). A Model-Based Approach to Wildland Fire Reconstruction Using Sediment Charcoal Records. *Environmetrics*, arXiv preprint arXiv:1612.02382.
- Manning, J., Stine, A., Boos, W., Sigl, M., **Marlon, J.R.** (in press). Volcanic forcing triggers revolt and constrains interstate conflict in ancient Egypt. *Nature Communications*.
- Marlon, J.R.**, Pederson, N., Nolan, C., Goring, S., Shuman, B., Booth, R., Bartlein, P., Berke, M.A., Clifford, M., Cook, E., Dieffenbacher-Krall, A., Dietz, M.C., Hessler, A., Hubeny, J.B., Jackson, S.T., Marsicek, J., McLachlan, J., Mock, C.J., Moore, D.J.P., Nichols, J., Robertson, A., Schaefer, K., Trouet, V. Umbanhowar, C., Williams, J.W.,

- Yu, Z. (in review). Climatic history of the northeastern United States during the past 3000 years. *Climate of the Past Discussions*, doi:10.5194/cp-2016-104.
- Marlon, J.R.**, van der Linden, S., Howe, P.D., Leiserowitz, A., Woo, S.H.L., Broad, K. (submitted). Detecting local environmental change: The role of experience in shaping risk judgments about global warming. *Journal of Risk Research*.
- van Marle, M.J.E., Kloster, S., Magi, B., **Marlon, J.R.**, Daniau, A-L, Field, R.D., Arneth, A., Forrest, M., Hantson, S., Kehrwald, N.M., Knorr, W., Lasslop, G., Li, F., Mangeon, S., Yue, C., Kaiser, J.W., van der Werf, G.R. (2017). Historic global biomass burning emissions based on merging satellite observations with proxies and fire models (1750-2015). *Geoscientific Model Development* 10, 3329-3357. <https://www.geosci-model-dev.net/10/3329/2017/>.
- Kehrwald, N., Aleman, J. C., Coughlan, M., Mustaphi, C. J. C., Githumbi, E. N., Magi, B. I., **Marlon, J. R.**, Power, M. J. (2016). One thousand years of fires: Integrating proxy and model data, *Frontiers of Biogeography*, 8(1).
- Marlon, J.R.**, Kelly, R., A-L Daniau, B. Vanni re, M. J. Power, P. Bartlein, P. Higuera, O. Blarquez, S. Brewer, T. Br ucher, A. Feurdean, G. Gil Romera, V. Iglesias, S. Y. Maezumi, B. Magi, C. J. C. Mustaphi, T. Zhihai (2016). Reconstructions of biomass burning from sediment charcoal records to improve data-model comparisons. *Biogeosciences* 13, 3225-3244, doi:10.5194/bg-13-3225-2016.
- Mildenberger, M., Howe, P.D., Lachapelle, E., Stokes, L., **Marlon, J.R.**, Gravelle, T.B. (2016). The distribution of climate change public opinion in Canada. *PLoS ONE*, <http://dx.doi.org/10.1371/journal.pone.0159774>.
- Boslough, M., Nicoll, K., Daulton, T., Scott, A., Claeys, P., Gill, J.L. **Marlon, J.R.**, Bartlein, P.J. (2015). Incomplete Bayesian Model Rejects Contradictory Radiocarbon Data for being Contradictory. *Proceedings of the National Academy of Sciences*, 112(49), E6722-E6722.
- Howe, P., Mildenberger, M., **Marlon J. R.**, Leiserowitz, A. (2015). Modelling US climate change opinion at state and local scales. *Nature Climate Change*, 5(6), 596-603. doi:10.1038/nclimate2583.
- Walsh, M., **Marlon J. R.**, Goring, S., Brown, K., Gavin, D. (2015). Climatic and human influences on Holocene fire activity in the Pacific Northwest region of North America. *Annals of the Association of American Geographers*, 105(6), 1135-1157.
- Williams, A., Mooney, S., Sisson, S., **Marlon J. R.** (2015). Exploration of the Human-Fire Relationship in Australia over the last 20,000 years. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 432: 49-57.
- Zennaro, P., Kehrwald, N., **Marlon, J.R.**, Ruddiman, W., Br ucher, T., Agostinelli, C., Dahl-Jensen, D., Zangrando, R., Gambaro, A., Barbante, C. (2015) Europe on fire three thousand years ago: Arson or climate? *Geophysical Research Letters*, 42, 5023–2033, doi: [10.1002/2015GL064259](https://doi.org/10.1002/2015GL064259).

- Blarquez, O., Bartlein, P.J., Vanni re B., **Marlon J. R.**, Daniau A. -L., Power M. J., Brewer S., Paleofire: An R package to analyse sedimentary charcoal records from the Global Charcoal Database to reconstruct past biomass burning (2014). *Computers & Geosciences*, 72, 255-261.
- Br ucher, T., Brovkin, V., Kloster, S., **Marlon, J.R.**, Power, M.J., Comparing modelled fire dynamics with charcoal records for the Holocene (2014). *Climate of the Past*, 10, 811-824. doi:10.5194/cp-10-811-2014.
- McLauchlan, K.K., Higuera, P.E., Gavin, D.G., Perakis, S.P., Mack, M.M., Alexander, H., Battles, J., Biondi, F., Buma, B., Colombaroli, D., Enders, S., Engstrom, D.R., Hu, F.S., **Marlon, J.R.**, Marshall, J., McGlone, M., Morris, J., Nave, L., Shuman, B., Smithwick, E., Urrego, D., Wardle, D., Williams, C., Williams, J.J. (2014). Reconstructing disturbances and their biogeochemical consequences over multiple timescales. *Bioscience*, bit017. doi: 10.1093/biosci/bit017.
- Zennaro, P., Natalie Kehrwald, N., McConnell, J.R., Sch ubach, S., Maselli, O., **Marlon, J.R.**, Vallelonga, P., Leuenberger, D., Zangrando, R., Spolao, A., Borrotti, M., Barbaro, E., Gambaro, A., Barbante, C. Fire in ice: Two millennia of boreal forest fire history from the Greenland NEEM ice core (2014). *Climate of the Past*, 10(5), 1905.
- Boslough, M. Nicoll, K., Holliday, V., Daulton, T.L., Meltzer, D., Pinter, N., Scott, A.C., Surovell, T., Claeys, Ph., Gill, J., Paquay, F., **Marlon, J.**, Bartlein, P., Whitlock, C., Grayson, D., Jull, T. (2012). Arguments and Evidence against a Younger Dryas Impact Event. In: Giosan, L., Clift, P., Fuller, D., Flad, R., and Nicoll, K. (eds.) 2013. *Climates, Past Landscapes, and Civilizations*, (Vol. 198), John Wiley & Sons.
- Daniau, A-L. ,S anchez Go ni, M.F., Martinez, P., Urrego, D.H., Bout-Roumazeilles, V., Desprat, S., **Marlon, J.R.** (2013). Orbital-scale climate forcing of grassland burning in southern Africa. *Proceedings of the National Academy of Sciences*, 110(13) doi: 10.1073/pnas.1214292110.
- Marlon, J.R.**, Bartlein, P.J., Daniau, A-L., Harrison, S.P., Power, M.J., Tinner, W., Tracy, S. Global biomass burning: A synthesis and review of Holocene paleofire records and their controls (2013). *Quaternary Science Reviews*, 65, 5-25.
- Quintana Krupinski, N.B., **Marlon, J.R.**, Nishri, A., Street, J.H., Paytan, A., Climatic and human controls on the late Holocene fire history of northern Israel (2013). *Quaternary Research* 80(3) 396–405.
- Daniau, A.-L., Bartlein, P.J., Harrison, S.P., Prentice, I.C., Brewer, S., Friedlingstein, P., Harrison-Prentice, T.I. , Inoue, J., **Marlon, J.R.**, Mooney, S., Power, M.J., Stevenson, J., Tinner, W., Andri , M., Atanassova, J., Behling, H., Black, M., Blarquez, O., Brown, K.J., Carcaillet, C., Colhoun, E.A., Colombaroli, D., Davis, B.A.S., D'Costa, D., Dodson, J., Dupont, L., Eshetu, A., Gavin, D.G., Genries, A., Gebru, T., Haberle, S., Hallett, D.J., Horn, S., Hope, G., Katamura. F., Kennedy, L., Kershaw, P., Krivonogov, S., Long, C., Magri, D., Marinova, E., McKenzie, G.M., Moreno, P.I., Moss, P., Neumann, F.H., Norstr m, E., Paitre, C., Rius, D., Roberts, N., Robinson, G., Sasaki, N., Scott, L., Takahara, H., Terwilliger, V., Thevenon, F., Turner, R.B., Valsecchi, V.G., Vanni re, B., Walsh, M., Williams, N., Zhang, Y. Predictability of

- biomass burning in response to climate changes (2012). *Global Biogeochemical Cycles*, 26(4).
- Gill, J.L., Blois, J.L., Goring, S., **Marlon, J.R.**, Bartlein, P.J., Nicoll, K., Scott, A.C., Whitlock, C., (2012) Paleocological changes at Lake Cuitzeo were not consistent with an extraterrestrial impact. *Proceedings of the National Academy of Sciences*, 109 (34):E2243-E2243.
- Goring, S., Williams, J.W., Blois, J.L., Jackson, S.T., Paciorek, C., Booth, R.K., **Marlon, J.R.**, Blaauw, M., Christen, A. (2012). Deposition times in the northeastern United States during the Holocene: establishing valid priors for Bayesian age models. *Quaternary Science Reviews*, 48, 54-60.
- Han, Y.M., **Marlon, J.R.**, Cao, J.J., Jin, Z.D., An, Z.S. Synchronous variations in soot, char and climate in Asia. (2012). *Global Biogeochemical Cycles*, 26(4) DOI: 10.1029/2011GB004197.
- Marlon, J.R.**, Bartlein, P.J., Long, C., Gavin, D.G., Anderson, R.S., Briles, C. Brown, K.J., Colombaroli, D., Hallett, D.J., Power, M.J., Scharf, E.A., Walsh, M.K. A long-term perspective on wildfires in the western U.S. (2012). *Proceedings of the National Academy of Sciences*, 109(9), E535-E543.
- Power, M.J., Mayle, F., Bartlein, P.J., **Marlon, J.R.**, Anderson, R.S., Behling, H., Brown, K.J., Carcaillet, C., Colombaroli, D., Gavin, D.G., Hallett, D.J., Horn, S.P., Kennedy, L.M., Lane, C., Long, C., Moreno, P.I., Paitre, C., Robinson, G., Taylor, Z., Walsh., M. Biomass burning decline in the Americas after 1500 AD: population collapse or climate change? (2012). *The Holocene*. DOI: 10.1177/0959683612450196.
- Harrison, S.P., **Marlon, J.R.** and Bartlein, P.J. (2010). Fire in the Earth system. *In* "Changing Climates, Earth Systems and Society." (J. Dodson, Ed.). International Year of Planet Earth. Springer, Dordrecht, The Netherlands.
- Power, M. J., **Marlon, J. R.**, Bartlein, P. J., Harrison, S. P. (2010). Fire History and the Global Charcoal Database: A new tool for hypothesis testing and data exploration. *Paleogeography, Paleoclimatology, Paleoecology*, 291(1), 52-59.
- 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., 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.E. Jr. Wildfire responses to abrupt climate change in North America (2009). *Proceedings of the National Academy of Sciences* 106(8) 2519-2524.
- Marlon, J.R.**, Bartlein, P.J., Carcaillet, C., Gavin, D.G., Harrison, S.P., Higuera, P.E., Joos, F., Power, M.J., Prentice, I.C. (2008) Climate and human influences on global biomass burning over the past two millennia. *Nature Geoscience*. DOI:10.1038/ngeo313.
- 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., Wilmschurst, J., Zhang, J.H. (2008). Changes in fire regimes since the Last Glacial Maximum: an assessment based on a global synthesis and analysis of charcoal data. *Climate Dynamics*, 30, 887-907. DOI: 10.1007/s00382-007-0334-x.

Whitlock, C., **Marlon, J.**, Briles, C., Brunelle, A., Long, C., Bartlein, P.J. (2008). Long-term relations between fire, fuel, and climate in the northwestern U.S. *International Journal of Wildland Fire*, 17(1) 72–83.

Whitlock, C., Bianchi, M.M., Bartlein, P.J., **Marlon, J.**, Walsh, M., and McCoy, N. (2006). Postglacial vegetation, climate, and fire history along the east side of the Andes (lat 41-42 S), Argentina. *Quaternary Research*, 66(2), 187-201.

**Marlon, J.**, Bartlein, P.J., and Whitlock, C. (2006). Fire-fuel-climate linkages in the northwestern United States during the Holocene. *The Holocene*, 16(8), 1059-1071.

Whitlock, C., Shafer, S.L., and **Marlon, J.** (2003). The role of climate and vegetation change in shaping past and future fire regimes in the northwestern U.S. and the implications for ecosystem management. *Forest Ecology and Management*, 178, 5-21.

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## OTHER JOURNAL PUBLICATIONS

Maibach, E., Leiserowitz, A., Marlon, J.R. (2017). Should the US stay in the Paris Agreement? A majority of Democrats and Republicans think so, The Conversation, May 14, 2017, <https://theconversation.com/should-the-us-stay-in-the-paris-agreement-a-majority-of-democrats-and-republicans-think-so-77455>.

Brücher, T., Brovkin, V., Kloster, S., **Marlon, J. R.**, & Power, M. J. (2015). How to compare modeled fire dynamics with charcoal records? *Past Global Changes Magazine*, 23, 16-17.

**Marlon, J.R.**, Farmer, E. C., Moran, S. (2015). Communicating hurricane risks: Challenges and recommendations, *Eos*, 96, [doi:10.1029/2015EO039443](https://doi.org/10.1029/2015EO039443).

Kehrwald, N.M., Whitlock, C., Barbante, C., Brovkin, V., Daniau, A.-L., Kaplan, J.O., **Marlon, J.R.**, Power, M.J., Thonicke, K., Van der Werf, G.R. (2013). Fire research: Linking past, present, and future data. *Eos* 94(46), 421-422.

LeDee, O.E., Barnes, R.T., Emanuel, R., Fisher, P.B., Henkel, S.K., **Marlon, J.R.** Training a “New Scientist” to Meet the Challenges of a Changing Environment. (2011). *Eos* 92(16) 135-136.

**Marlon, J.R.**, Bartlein, P.J. (2010). Toward multiple working hypotheses. Invited comment in Holliday, V.T. & D.J. Meltzer, The 12.9-ka ET Impact Hypothesis and North American Paleoindians. *Current Anthropology*, 51:593-594.

**Marlon, J.R.**, Patenaude, G., Barnes, B. (2010). Catalyzing interdisciplinary research on climate change. *Eos* 91(34) 299.

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## OTHER PUBLICATIONS

**Marlon, J.R.** (2016) Bridging Data and Models. PAGES Workshop Report.

**Marlon, J.R.**, Rosenthal, S., Feinberg, G., Pal, S. and Leiserowitz, A. (2015). Hurricane Attitudes of Coastal Connecticut Residents: A Segmentation Analysis. June 29, 2015. Yale University. New Haven, CT: Yale Project on Climate Change Communication.

**Marlon, J.**, Rosenthal, S., Feinberg, G., Pal, S. and Leiserowitz, A. (2014). Hurricane Perceptions of Coastal Connecticut Residents: October, 2014. Yale University. New Haven, CT: Yale Project on Climate Change Communication

Leiserowitz, A., Maibach, E., Roser-Renouf, C., Feinberg, G., Rosenthal, S., & **Marlon, J.** (2014) Climate change in the American mind: Americans' global warming beliefs and attitudes in November, 2013. Yale University and George Mason University. New Haven, CT: Yale Project on Climate Change Communication.

**Marlon, J.R.**, Leiserowitz, A., and Feinberg, G. (2013) Scientific and Public Perspectives on Climate Change. Yale University. New Haven, CT: Yale Project on Climate Change Communication. <http://environment.yale.edu/climate/notes/consensus.html>.

**Marlon, J.R.**, Cui, Q., Gaillard, M.-J., McWethy, D., Walsh, M.K. (2010). Humans and fire: Consequences of anthropogenic burning during the past 2 ka. *PAGES news* 18(2) 80-82.

Leiserowitz, A., Smith, N., **Marlon, J.R.** (2011). American Teens' Knowledge of Climate Change. Yale University. New Haven, CT: Yale Project on Climate Change Communication. <http://environment.yale.edu/climate/news/american-teens-knowledge-of-climate-change/>.

Leiserowitz, A., Smith, N., **Marlon, J.R.** (2010). Americans' Knowledge of Climate Change. Yale University. New Haven, CT: Yale Project on Climate Change Communication. <http://environment.yale.edu/climate/files/ClimateChangeKnowledge2010.pdf>

Weiler, C.S., Mitchell, R. and **Marlon, J.** (2009). DISCCRS IV Symposium Report. Online: [http://www.disccrs.org/reports/DISCCRS\\_IV\\_Symposium\\_Report.pdf](http://www.disccrs.org/reports/DISCCRS_IV_Symposium_Report.pdf)

Power, M.J., **Marlon, J.**, Bartlein, P.J., and Harrison, S.P. (2008). Fire in the Earth system: The Global Palaeofire Working Group. Totnes, UK, 22-26 October 2007. Workshop Report. *PAGES News* 16(1), 39-40.

**Marlon, J.** (2003). A meta-analysis of charcoal-based fire history records from the northwestern United States. Thesis, University of Oregon, Eugene, Oregon.

Whitlock, C., Mohr, J., Minckley, T., and **Marlon, J.** (2001). Holocene vegetation and fire history from Cedar Lake, northern California. A Final Report for Cooperative Agreement USFS PSW-99-0010CA, Pacific Southwest Research Station, USDA Forest Service, CA.

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## INVITED PRESENTATIONS

- 2016 “Global Syntheses of Charcoal Data,” Early Human Impacts workshop, Venice, Italy, Nov. 24-25.
- 2016 “Climate Change in the American Mind: Communication Challenges and Opportunities.” University of Colorado (class lecture), Oct. 11.
- 2016 “Global Syntheses of Charcoal Data,” PAGES workshop, Bordeaux, France, Sep. 25-30.
- 2016 “Climate Change in the American Mind: Communication Challenges and Opportunities.” Yale Astrophysics Summer Camp, New Haven, CT, July 26.
- 2016 “Should I stay or should I go? Communicating Risk when the Storm comes” Documentary discussion panel member. Long Beach, NY, July 14.
- 2016 “Effectively Communicating Climate Change to the American Public” (webinar). NOAA, Silver Spring, MD, June 2.
- 2016 “Climate Change Communication: Challenges and Opportunities.” Univ. of New Haven, New Haven, CT, April 20.
- 2016 “Safer to Stay, or Safer to Go?” National Hurricane Conference, Orlando, FL, March 24.
- 2016 “Climate Change in the American Mind: Communication Challenges and Opportunities.” NASA Goddard, Greenbelt, MD. Feb. 17.
- 2015 “Multi-decadal to millennial-scale reconstructions of biomass burning and its responses to changes in climate, vegetation, and anthropogenic forcings.” AGU, San Francisco, Dec. 14-18.
- 2015 “Should I stay or should I go? Hurricane perceptions of CT coastal residents.” Sea Grant Assembly – Communications, Mystic, CT, Dec. 2.
- 2015 “Should I stay or should I go? Hurricane perceptions of CT coastal residents.” League of Women Voters, Branford, CT, Nov. 11.
- 2015 “Mapping Climate Conversations” Yale School of Forestry and Environmental Studies, GeoSig guest speaker. New Haven, Nov. 5.
- 2015 “The Global Charcoal Database.” FireMIP Workshop, Garmisch Partenkirshen, Germany, October 28-30.
- 2015 “Climate Change in the American Mind.” Assumption College, Worcester, MA, October 19.
- 2015 “Climate Change in the American Mind.” NAC SETAC Annual Meeting, Freeport, ME, June 11-12, 2015.
- 2015 “Should I Stay or Should I Go?” NOAA Sea Grant Connecticut Congressional Roundtable, Avery Point, CT, July 21.
- 2015 “Hurricane Perceptions of Coastal Connecticut Residents.” Coastal Storm Awareness Program, NOAA Sea Grant Workshop, Newark, NJ, May 26-27.
- 2015 “Fire, Humans, & Climate,” Stonybrook University, NY, May 1.
- 2014 “Wildfire in a Changing Climate,” School of Biology and Ecology / Climate Change Institute, University of Maine, ME.
- 2014 “Climate Change in the American Mind,” School of Biology and Ecology / Climate Change Institute, University of Maine, ME.
- 2014 “Paleofire from Charcoal: State of the Science.” PalEON Workshop, Boulder, CO,

- June 2-4.
- 2014 "Paleoclimate of the Northeastern US." PalEON Workshop, Boston, MA, March 7-9.
  - 2014 "Response of Biomass Burning to Climate Changes and Human Activities During the Past 12,000 Years in Eastern North America." Fire Ecology of the Northeast workshop, New Haven, CT, February 20-22.
  - 2013 "Climate Change in the American Mind," Peabody Museum Summer Teacher Workshop, New Haven, CT.
  - 2013 "Synthesizing Fire History from Charcoal in Lakes, Bogs, and other Sediments," Webinar for Wildfire PIRE, Montana State University, MT.
  - 2012 "The Global Charcoal Database: Making Fire From Mud," Paleofire Workshop, Venice, Italy.
  - 2012 "The Limits of Experience in Predicting Climate Change Risk Perceptions," Yale Project on Climate Change Communication (YPCCC) Project Meeting, Washington, DC.
  - 2012 "Fire History of the Western United States," NSF PROBE Research Coordination Network, Manhattan, KS.
  - 2012 "Regional to Global-scale Trends in Fire: A Long-term Perspective," Department of Geography, University of Toronto, Canada.
  - 2011 "The Geography of Fire: A Global Paleo Perspective," Department of Earth & Environmental Sciences, Lehigh University, PA.
  - 2011 "Biomass Burning During the Last Millennium," PalaeoCarbon Modeling Intercomparison (PCMIP) Workshop, Sydney, Australia.
  - 2011 "Sustainable Fire Regimes: Lessons from Paleofire Records," Pyrogeography Working Group 4: Towards Sustainable Fire Regimes, NCEAS, Santa Barbara, CA.
  - 2011 "Reconstructing Fire From Sedimentary Charcoal Records," Institute for the Earth Environment, Xi'an, China.
  - 2011 "Fire as a Benchmark Dataset", International Union for Quaternary Research, Bern, Switzerland.
  - 2010 "The Geography of Fire: A Paleo Perspective", Lamont-Doherty Earth Observatory, NY.
  - 2009 "Global Fire History Since the Last Glacial Maximum," Yale Institute for Biospheric Studies, New Haven, CT.
  - 2009 "The Geography of Fire," Brown University, Geological Sciences Department, Providence, RI.
  - 2009 "Climate and Human Impacts on Biomass Burning During Past Millennia," Past Global Changes (PAGES) Open Science Meeting, Corvallis, OR.
  - 2008 "Global Fire History During the Past 21,000 Years," Paleoclimate Modelling Intercomparison Project Phase II Workshop, Estes Park, CO.
  - 2007 "The Long-term Fire History of North America," Brown University, Providence, RI.
  - 2005 "The Fire History of the Pacific Northwest," Fire History & Climate Synthesis in the Western United States, Flagstaff, AZ.

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## CONTRIBUTED PRESENTATIONS

- 2014 “Comparing modelled fire dynamics with charcoal records for the Holocene”  
European Geophysical Union, Vienna, Austria (contributing author)
- 2013 “Response of Biomass Burning to Climate Changes & Human Activities During  
the Past 12,000 Years in Eastern North America”, American Geophysical Union  
annual conference, San Francisco, CA (oral presentation)
- 2013 “Downscaling U.S. Public Opinion about Climate Change and the “Six Americas”  
to States and Counties”, American Geophysical Union annual conference, San  
Francisco, CA (oral presentation)
- 2013 “Paleoclimatic Reconstructions of the Northeastern US for the Past 2000 Years  
from the Paleocological Observatory Network (PaleON)”, Geological Society  
of America, Northeastern Section Meeting, Bretton Woods, NH (presentation)
- 2012 “A Long-term Perspective of Wildfires in the Western U.S.”, American  
Association of Geographers annual conference, New York, NY (presentation)
- 2011 “Climate, Fire & People During the Holocene: A Test of the Ruddiman  
Hypothesis”, American Association of Geographers annual conference, Seattle,  
WA (presentation)
- 2011 “Climate & Human Influences on Holocene Biomass Burning”, European  
Geophysical Union annual conference, Vienna, Austria (presentation)
- 2011 “Holocene Trends in Biomass Burning: Relationships to Climate Change and  
Human Activities”, XVIII International Quaternary Association Congress, Bern,  
Switzerland (presentation)
- 2010 “Western U.S. Wildfires: The Past 3000 Years”, Ecological Society of America  
annual conference, Pittsburgh, PA (presentation)
- 2010 “Climate change impacts on past wildfires at broad spatial scales”, American  
Association of Geographers annual conference, Washington, DC (presentation)
- 2009 “Climatic Control of Biomass Burning During the Last Glacial Maximum  
Transition”, American Geophysical Union annual conference, San Francisco,  
CA (poster)
- 2009 “Climate and Human Influences on Global Biomass Burning Over Past  
Millennia”, Association of American Geographers annual conference, Las Vegas,  
NV (presentation)
- 2008 “Millennial-scale changes in biomass burning: Insights from charcoal records”,  
International Association of Wildland Fire annual conference, Jackson Hole,  
WY (presentation)
- 2008 “Megafires of the past: Insights from charcoal-based paleofire records”, Association  
of American Geographers annual conference, Boston, MA (presentation)
- 2007 “Off with a bang! Evidence for a fiery start to the Younger Dryas cold period”,  
Dissertations Initiative for the Advancement of Climate Change Research III  
Symposium, Volcanoes, Hawaii
- 2007 “North American Fire Regimes Since the Last Glacial Maximum”, XVII  
International Quaternary Association Congress, Cairns, Australia (presentation)
- 2007 “Global Fire History Since the Last Glacial Maximum”, Association of American  
Geographers annual conference, San Francisco, CA (presentation)
- 2006 “Global Paleofire History Since the Last Glacial Maximum: Syntheses and Data-  
Model Comparisons”, American Geophysical Union annual conference, San

- Francisco, CA (poster)
- 2006 “Global Paleofire History Since the Last Glacial Maximum”, Association of Pacific Coast Geographers, Eugene, Oregon (presentation)
- 2006 “Meta-analyses of Paleofire Records at Multiple Scales”, XIX American Quaternary Association, Bozeman, Montana (presentation)
- 2005 “Control of Background Charcoal Accumulation Rates (BCHAR) in Long-term Fire-history Studies”, Ecological Society of America annual conference, Montreal, Canada (presentation)
- 2004 “Synchronicity in Background Charcoal Records from the Northwestern U.S.” American Geophysical Union annual conference, San Francisco, CA (poster)
- 2004 “A Meta-Analysis of Charcoal-based Fire History Records from the Northwestern U.S.”, American Association of Geographers annual conference, Philadelphia, PA (poster)

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## TEACHING EXPERIENCE

- Summer 2009 Quaternary Ecosystem Science Training International Group, Franche-Comté, France
- Summer 2006 Co-instructor: Introduction to Physical Geography, University of Oregon
- 2006 Guest Lecturer: Paleoclimatology & Global Warming, University of Oregon
- 2006 Guest Lecturer: Advanced Data Analysis – Data Displays, University of Oregon
- 2005 Guest Lecturer: Advanced Data Analysis – Regression, University of Oregon
- 2002 Guest Lecturer: How Fire Shapes the Distribution of Species, University of Oregon
- Summer 2002 Instructor: Introduction to Geographic Information Systems, University of Oregon
- Summer 2001 Instructor: Introduction to Geographic Information Systems, University of Oregon
- 2000 – 2001 Graduate Teaching Fellow for five classes including Geographic Data Analysis, Climatology, Geomorphology, Geographic Information Systems and Biogeography, University of Oregon

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## MEDIA & PUBLIC OUTREACH

- 2017 Interview for New York Times article by Justin Gillis: Let Forest Fires Burn? What the Black-Backed Woodpecker Knows”, Aug. 6, 2017. URL: [https://www.nytimes.com/2017/08/06/science/let-forest-fires-burn-what-the-black-backed-woodpecker-knows.html?\\_r=0](https://www.nytimes.com/2017/08/06/science/let-forest-fires-burn-what-the-black-backed-woodpecker-knows.html?_r=0)
- 2015 Webinar: North Atlantic Fire Science Exchange, “Response of Forests and Fire to Climate Change and Human Activities”, July 30.
- 2013 Briefing: “Long-term Context for Wildfires in the Western US”, Nov. 13, National Resources Defense Council
- 2013 Climate Nexus Webinar: “Current Wildfires: Climate Context”, June 4.
- 2012 Climate Nexus Teleconference for the Media: “Climate & Wildfires”, Sept. 18.

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## PROFESSIONAL SERVICE

- 2016-present *Councilor, Paleobiology, AMQUA*
- 2015-present *Vice President, INQUA Palaeoclimate Commission (PALCOM)*
- 2015 *Panelist, Communicating Biogeographic Research: Outreach, the Press and Social Media. April 25, 2015, American Association of Geographers, Chicago, IL*
- 2014 *Electorate Nominating Committee (ENC) of the Section on Geology & Geography, American Association for the Advancement of Science*
- 2013 *Mentor, DISsertations initiative for the advancement of Climate Change ReSearch (DISCCRS) VIII Symposium, Colorado Springs, CO*
- 2013 *Applicant Reviewer: DISsertations initiative for the advancement of Climate Change ReSearch (DISCCRS)*
- 2012-2014 *Chair, Early Career Research (ECR) Committee of the International Union for Quaternary Research (INQUA)*
- 2012 *Session Co-Organizer. Fire, Humans & Climate – Untangling relationships, causes and consequences, American Association of Geographers, New York, NY*
- 2011-2015 *Co-Secretary, Palaeoclimate Commission (PALCOM) of INQUA*
- 2010-2012 *Secretary, Paleoecology Section, Ecological Society of America*
- 2009-2014 *Created and maintained websites for DISCCRS, INQUA PALCOMM, INQUA ECR*
- 2009-present *Proposal Reviewer: National Science Foundation, National Geographic*
- 2009 *Applicant reviewer: DISsertations initiative for the advancement of Climate Change ReSearch (DISCCRS)*
- 2009-present *Manuscript reviewer for 18 journals: Annals of the Association of American Geographers, The Anthropocene, The Anthropocene Review, Climatic Change, Ecography, Forest Ecology and Management, Global Ecology and Biogeography, Geophysical Research Letters, The Holocene, Journal of Biogeography, Journal of Ecology, Journal of Quaternary Science, Journal of Vegetation Science, Nature Climate Change, Palaeogeography, Palaeoclimatology, Palaeoecology, Proceedings of the National Academy of Science, Quaternary Research, Quaternary Science Reviews*
- 2008 *Session Organizer and Chair. “Succeeding as a Biogeographer,” AAG, Boston, MA*
- 2007 *Graduate Student Representative: AAG Biogeography Specialty Group*
- 2006-present *IGBP – PAGES Global Palaeofire Working Group (GPWG) Steering committee*

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## SYNERGISTIC ACTIVITIES

- 2015 *Organizer: Global Paleofire Data-Model Comparisons Workshop,*

- 27 Sept. - 2 October 2015, Harvard Forest, Petersham, MA
- 2013 Co-Organizer: Paleofire Data Synthesis Using R: A Global Paleofire Working Group (GPWG) Workshop, 2-6 October 2013, Frasné, France
- 2013 Palaeofire Working Group Coordination Meeting, University of Utah, UT, May 13-17
- 2012 Scientific Leadership & Management Course, Yale University, CT
- 2012 PROBE Research Coordination Network: The Novus project for integrating paleo- and neoecosystem ecology - workshop and network participant, Manhattan, KS
- 2012 *Session Organizer and Chair*: Fire, Humans and Climate: Untangling Relationships, Causes and Consequences, Association of American Geographers, New York, NY
- 2011-present Yale Project on Climate Change Communication network, CT
- 2011 Pyrogeography Working Group 4: Towards Sustainable Fire Regimes (NCEAS) - workshop participant, Santa Barbara, CA
- 2011 PaleoEcological Observatory Network to assess terrestrial ecosystem models (PaleON) - workshop and network participant, Chicago, IL
- 2011 Neotoma Paleoecological Database - workshop and network participant, Madison, WI
- 2009 - 2013 Dissertations Initiative for the Advancement of Climate Change Research (DISCCRS) – organizer

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## PROFESSIONAL MEMBERSHIPS

Association of American Geographers (AAG)  
 American Association for the Advancement of Science (AAAS)  
 American Geophysical Union (AGU)  
 American Quaternary Association (AMQUA)  
 International Union for Quaternary Research (INQUA)