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	International Journal of Climatology Prize:	2015
	Mid Career Faculty Award, University of Idaho:	2016
	Visiting Scholar Fellowship, University of Tasmania:	2019
REFEREED PUBLICATIONS	171. Bowman, D.M.J.S., C.A. Kolden, J.T. Abatzoglou , F.H. Johnston, G.R. van der Werf, M. Flannigan, 2020, Vegetation Fires in the Anthropocene, <i>Nature Reviews Earth and Environment</i> , 1-16	
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65. Higuera, P.E., **J.T. Abatzoglou**, J.S. Littell and P. Morgan, 2015, The changing strength and nature of fire-climate relationships in the northern Rocky Mountains, U.S.A., 1902-2008. *PLoS ONE* 10(6): e0127563

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63. Barbero R.*, **J.T. Abatzoglou**, T.J. Brown, 2015, Seasonal reversal of the influence of El Niño-Southern Oscillation on very large wildfire occurrence in the interior western United States, *Geophysical Research Letters*, 42, 3538-3545
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58. Barbero R.*, **J.T. Abatzoglou**, C. Kolden, K. Hegewisch*, N.K. Larkin, H. Podschwit, 2015, Multi-scalar influence of weather and climate on very large-fires in the Eastern United States, *International Journal of Climatology*, 35: 2180-2186
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56. **Abatzoglou, J.T.**, D.E. Rupp and P.W. Mote, 2014, Questionable evidence of natural warming of the northwestern United States, *Proceedings of the National Academy of Sciences*, 111(52), E5605-E5606
55. Barbero R.*, **J.T. Abatzoglou**, E. A. Steel, N.K. Larkin, 2014, Modeling very large-fire occurrences over the continental United-States from weather and climate forcing, *Environmental Research Letters*, 9(12), p.124009
54. Edwards, L.M., M.J. Bunkers, **J.T. Abatzoglou**, D.P. Todey, L. Parker*, 2014, October 2013 Blizzard in western South Dakota [in "Explaining Extremes of 2013 from a Climate Perspective"]. *Bull. Amer. Meteor. Soc.*, 95 (9), S23-S26.
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51. Davis, T.S., **J.T. Abatzoglou**, N.A. Bosque-Perez, S.E. Halbert, K. Pike and S.D. Eigenbrode, 2014, Differing contributions of density dependence and climate to the population dynamics of three eruptive herbivores, US, *Ecological Entomology*, 39: 566-577
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49. Klos, P.Z., T.E. Link and **J.T. Abatzoglou**, 2014, Extent of the rain-snow transition zone in the western U.S. under historic and projected climate, *Geophysical Research Letters*, 41, 4560-4568.

48. Lute, A.C.* and **J.T. Abatzoglou**, 2014, Role of extreme snowfall events in interannual variability of snowfall accumulation in the western United States, *Water Resources Research*, 50, 2874-2888
47. **Abatzoglou, J.T.** and R. Barbero*, 2014. Observed and projected changes in absolute temperature records across the contiguous United States. *Geophysical Research Letters*, 41, 6501-6508.
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41. **Abatzoglou, J.T.**, D.E. Rupp and P.W. Mote, 2014, Understanding seasonal climate variability and change in the Pacific Northwest of the United States, *Journal of Climate*, 27, 2125-2142
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35. Rupp, D.E., **J.T. Abatzoglou**, K.C. Hegewisch and P.W. Mote, 2013, Evaluation of CMIP5 20th century climate simulations for the Pacific Northwest USA, *J. Geophysical Research-Atmospheres*, 118, 10884-10906
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24. McEvoy, D.J, J.L. Huntington, **J.T. Abatzoglou** and L.E. Edwards, 2012, An Evaluation of Multi-scalar Drought Indices in Nevada and Eastern California, *Earth Interactions*, 16, 1-18
23. Kolden, C.A., and **J.T. Abatzoglou**, 2012, Climate and Vegetation Influences on Fire Impacts in Alaskan Boreal Forest: Implications for Carbon and Fire Management, *Fire Ecology*, 8, 98-113
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20. **Abatzoglou, J.T.** and C.A. Kolden. 2011, Climate change in western US deserts: potential for increased wildfire and invasive annual grasses, *Rangeland Ecology and Management*, 64, 471-478
19. Stahle, D.W., R.D. Griffin, M.K. Cleaveland, J.R. Edmondson, F.K. Fye, D.J. Burnette, **J.T. Abatzoglou**, K.T. Redmond, D.M. Meko, M.D. Dettinger, D.R. Cayan and M.D. Therrell, 2011. [A Tree-Ring Reconstruction of the Salinity Gradient in the Northern Estuary of San Francisco Bay](#). *San Francisco Estuary and Watershed Science*, 9(1).
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15. Miller, C., **J.T. Abatzoglou**, T.J. Brown, T., and A. Syphard. 2011, Wilderness Fire Management in a Changing Environment, In: *Landscape Ecology of Fire*, McKenzie, D., C. Miller and D. Falk [eds.], doi:10.1007/978-94-007-0301-8
14. **Abatzoglou, J.T.**, 2011, Influence of the PNA on Declining Mountain Snowpack in the Western United States, *International Journal of Climatology*, 31: 1135-1142

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11. **Abatzoglou, J.T.**, K.T. Redmond, L.M. Edwards, 2009, Classification of Regional Climate Variability in the State of California, *Journal of Applied Meteorology and Climatology*, 48(8): 1527-1541
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9. Dobrowski, S.Z., **J.T. Abatzoglou**, J.A. Greenberg, S.G. Schladow, 2009, How much influence does landscape-scale physiography have on air temperature in a mountain environment? *Agricultural and Forest Meteorology*, 149: 1751-1758
8. Jones, B.M., C.A. Kolden, R. Jandt, **J.T. Abatzoglou**, F. Urban and C.D. Arp, 2009, Fire behavior, weather and burn severity of the 2007 Anaktuvuk River tundra fire, North Slope, Alaska, *Arctic, Antarctic, and Alpine Research*, 41(3): 309-316
7. Morrisette, J.T., A.D. Richardson, A.K. Knapp, J.I. Fisher, E.A. Graham, **J. Abatzoglou**, B.E. Wilson, D.D. Breshears, G.M. Henebry, J.M. Hanes and L. Liang, 2009, Learning the Rhythm of the Seasons in the Face of Global Change: Phenological Research in the 21st Century, *Frontiers in Ecology and the Environment*, 7(5): 253-260
6. **Abatzoglou, J.T.**, K.T. Redmond, 2007, The Asymmetry of Trends in Spring and Autumn Temperature and Circulation Regimes over Western North America, *Geophys. Res. Lett.*, 34, L18808
5. **Abatzoglou, J.T.**; Book Chapter 2-3, 2007, *Climate Change: What It Means for Us, Our Children, and Our Grandchildren*, MIT Press
4. **Abatzoglou, J.T.**, G. Magnusdottir, 2007, Wave breaking along the stratospheric polar vortex as seen in ERA-40 data, *Geophysical Research Letters*, 34, L08812
3. **Abatzoglou, J.T.**, G. Magnusdottir, 2006, Opposing Effects of Reflective and Non-reflective Planetary Wave Breaking on the NAO, *Journal of Atmospheric Sciences*, 63, 3448-3457
2. **Abatzoglou, J.T.**, G. Magnusdottir, 2006, Planetary Wave Breaking and Nonlinear Reflection: Seasonal Cycle and Interannual Variability, *Journal of Climate*, 19, 6139-6152
1. **Abatzoglou, J.T.**, G. Magnusdottir, 2004. Nonlinear planetary wave reflection in the troposphere. *Geophysical Research Letters*, 31, L091015

* indicates student or post-doc advisee

- EXTERNAL FUNDING
32. Climate Impacts Research Consortium, NOAA, Co-PI (2020-, \$130,000)
 31. Improving drought indicators to support drought impact mitigation for natural resource management, NOAA, PI, (2020-, \$150,000)
 30. Advancing Drought Early Warning Systems, NOAA, Co-PI (2020-, \$200,000)
 29. Technology for trade: new tools and new rules for water use efficiency in agriculture and beyond, USDA, Co-PI (2018-, \$140,000)
 28. Analogs of Environmental Change for National Park Service Units, National Park Service, PI (2018-, \$120,000)
 27. Climate Impacts Research Consortium 2, NOAA, Co-PI (2015-2020, \$270,000)
 26. Advancing Resilience to Compounding Disasters: An Integrated Natural-Human Systems Assessment of Wildfire Vulnerability, NSF Hazard SEES, Co-PI (2015-2020, \$75,000)

25. Social-ecological-technological solutions to waste reuse in food, energy, and water systems (ReFEWS), Co-PI (2016-2020, \$50,000)
24. Mapping the current and future suitability of specialty crop cultivation in the Northwest, USDA NW Climate Hub, PI (2017-2019, \$40,000)
23. Development of a Drought Early Warning System for California-Nevada and the Pacific Northwest, NOAA, Co-PI (2016-2019, \$150,000)
22. Collaborative Visualization of Projected Climatic Conditions and Related Risks for the Northwest US, USDA NW Climate Hub, PI (2015-2018, \$87,000)
21. Cloud Computing Support for Drought Monitoring and Fallow Field Tracking, USGS, Co-PI (2015-2017, \$80,000)
20. Understanding Climate and Land Use Drivers of Invasive-Grass Fueled Fires Across the Western U.S., NASA Terrestrial Ecology, Co-PI (2014-2018, \$50,000)
19. Regional Approaches to Climate Change in Pacific Northwest Agriculture, USDA NIFA, Co-PI (2011- 2017, \$350,000)
18. Disappearing refugia: identifying trends and resilience in unburned islands under climate change, USGS, (2014 - 2017, \$15,000)
17. Evaluation and Downscaling of CMIP5 Climate Simulations for the Southeast U.S., PI (2014-2015 , \$30,000)
16. Google Drought, Google Earth Engine Research Faculty Award, Co-PI (2014, \$70,000)
15. Weather Data and Forecasting Applications for management of Ecological Site Transitions, USDA-NIFA, Co-PI (2013-2016, \$120,000)
14. Climate Impacts Research Consortium, NOAA, Co-PI (2010-2015,\$100,000)
13. Future mega-fires and smoke impacts, Joint Fire Science Program, Co-PI (2011-2015, \$135,000)
12. Seattle Public Utility (SPU) Piloting Utility Modeling Applications (PUMA) project, Seattle Public Utilities, Co-PI, (2013-2014 , \$43,000)
11. Integrated Climate Scenarios of the Pacific Northwest, USGS, Co-PI (2012-2014 , \$45,000)
10. Extratropical Control of Gulf Surges: The Role of Rossby Wave Breaking and Associated Mesoscale Processes, NSF Climate and Large Scale Dynamics, PI (2008-2013, \$202,938)
9. NSF EPSCoR Innovative Working Group, PI (2012, \$8,000)
8. Climate Scenarios for Oregon and Washington, Bureau of Land Management, Co-PI (2012-2014, \$20,000)
7. WestWide Drought Tracker: Monitoring Drought at Fine Spatial Scales Across the Western US, NOAA TRACS, PI (2008-2012, \$125,000)
6. Downscaled datasets and evaluation for PUMA, Portland Water Bureau, PI, (2013-2014, \$25,000)
5. Toward next generation downscaling for hydrologic prediction in the Pacific Northwest, USGS, Co-PI (2011-2014 \$25,000)
4. Impacts of a Changing Climate on Water Resources in the Eastern Great Basin, Bureau of Reclamation, Co-PI (2011-2013, \$86,000)
3. Understanding climate impacts on fuels management, Joint Fire Science Program, Co-PI, (2008-2012, \$50,000)
2. USDA-Forest Service JVA, Fine Scale Climate Modeling, Agreement with Rocky Mountain Research Station, PI (2009-2012, \$15,000)
1. Downscaling for Climate Change Assessment, USFS WWETAC, PI (2009-2011, \$50,000)

* indicates Abatzoglou portion

SELECTED INVITED
PRESENTATIONS
2015-PRESENT

14. Abatzoglou, J.T., Climate driven fire hazards, Knowledge and Limitations, NOAA CLIVAR Predictability, Predictions, and Applications Interface, July 2020
13. Abatzoglou, J.T., How and where climate change enables changing fire activity, Kavli Frontiers of Science, National Academies of Sciences, July 2020
12. Abatzoglou, J.T., State of NW Climate: The 2019 Edition, Northwest Climate Conference, Portland, OR, Oct 2019
11. Abatzoglou, J.T., A Future of Hotter, Longer, and More Synchronous Fire Seasons, Corvallis, OR, April 2019
10. Abatzoglou, J.T., Fire across scales, Hobart, Australia, Dec 2018
9. Abatzoglou, J.T., State of NW Climate: The 2018 Edition, Northwest Climate Conference, Boise, ID, Oct 2018
8. Abatzoglou, J.T., How much has human-caused climate change influenced wildfire extent across western US forests?, GFDL Science Seminar Series, Princeton, NJ, Oct 2017
7. Abatzoglou, J.T., Idaho's Changing Climate, Idaho Climate Hearing at State Capitol, Boise, ID, Mar 2017
6. Abatzoglou, J.T. and T.E. Link, The Changing Climate, Snow, and Flow in Idaho, Lewis-Clark State College Environmental Lecture Series, Lewiston, ID, Feb 2017
5. Abatzoglou, J.T., Parched and Drenched: Future Climate and Water Resources in the Pacific Northwest, NW Water and Climate conference, Skamania, WA, Jan 2017
4. Abatzoglou, J.T., [A changing climate for agriculture: Tools for kick starting adaptation](#), Climate Learning Network webinar, Jun, 2016
3. Abatzoglou, J.T., Water Year 2015: A prototype year for future climate?, Spokane River Forum, Coeur d'Alene, ID, Mar 2016
2. Abatzoglou, J.T., Western US Wildfire in the Anthropocene: Is this the new normal?, Global Change and Sustainability Center seminar, Salt Lake City, UT, Nov 2015
1. Abatzoglou, J.T., Idaho Water 2016: climatic context for the past and current water year, Idaho Fall Water Outlook forum, Boise, ID, Nov 2015

TEACHING
EXPERIENCE

Instructor

- Environmental Systems Science 110: Climate and Hydrology, UC Merced
- Geography 100: Physical Geography, University of Idaho
- [Geography 301: Meteorology](#), University of Idaho
- [Geography 313/513: Global Climate Change](#), University of Idaho
- [Geography 401: Climatology](#), University of Idaho
- Geography 404: Weather Analysis and Forecasting, University of Idaho
- [Geography 501: Climate Seminar](#), University of Idaho
- Meteorology 112: Global Climate Change, San Jose State University
- Meteorology 171A: Synoptic Weather Analysis and Forecasting, San Jose State
- Meteorology 171B: Advanced Synoptic Weather Analysis and Forecasting, San Jose State
- Atmospheric Science 414/614: Physical Climatology, University of Nevada, Reno

Mentorship

- Ph.D. students (2): Abigail Lute*, Lauren Parker
- M.S. students (11): Joshua Clark, James Favors, Holly Diehl, Jeremy Jenkins, Andrew Joros, Jacob Wolf, Donovan VanSant, Stephen Gillis, Abigail Lute, Paige Farrell, Wenlong Feng
- Research Scientists (1): Katherine Hegewisch*
- Postdoctoral Researchers (3): Katherine Hegewisch, Lauren Parker, Renaud Barbero

- Undergraduate Researchers (4): Alexander Peterson, Stephen Gillis, Jet Johnstone, Blaise DeFranco

* indicates current students/postdocs

SERVICE AND OUTREACH

- Media Interviews: *Los Angeles Times*, *Orange Country Register*, *USA Today*, *National Public Radio*, *Reno Gazette Journal*, *Fresno Bee*, *Stockton Record*, *Climatewire*, *KLEW*, *Land Letter*, *Bay Citizen*, *Eastern Oregonian*, *Spokesman Review*, *Northwest News Network*, *Idaho Public Television*, *Northwest Public Radio*, *Earthfix*, *Saint Maries Gazette*, *Inland Northwest News*, *KTVB*, *Moscow-Pullman Daily News*, *Lewiston Tribune*, *Boise State Public Radio*, *Climate Central*, *KUOW*, *Seattle Times*, *Captial Press*, *Science News*, *Big Country News*, *Circle of Blue*, *Sandpoint Reader*, *Boise Weekly*, *Idaho Reports*, *InsideClimate News*, *Scientific American*, *FiveThirtyEight*, *Huntington Post*, *Washington Post*, *Yale Environment 360*, *The Atlantic*, *Vox*, *Washington Times*
- Journal Reviewer: *Geophysical Research Letters*, *Journal of Climate*, *Journal of Atmospheric Science*, *International Journal of Wildland Fire*, *The Quarterly Journal of the Royal Meteorological Society*, *International Journal of Climatology*, *Climatic Change*, *Journal of Geophysical Research-Atmospheres*, *Conservation Biology*, *Northwest Science*, *Fire Ecology*, *Rangeland Ecology and Management*, *Journal of American Water Resources Association*, *Bulletin of American Meteorological Society*, *Earth Interactions*, *Journal of Hydrometeorology*, *Journal of Applied Meteorology and Climatology*, *Biogeosciences*, *Journal of Applied and Theoretical Climatology*, *Computers and Geosciences*, *Proceedings of the National Academy of Sciences*, *Risk Analysis*, *Nature Geosciences*, *Current Climate Change Reports*, *International Journal of Biometeorology*, *Water Resources Research*, *Weather and Forecasting*, *PlosOne*, *Forest Ecology and Management*, *Journal of Water and Climate*, *Science Advances*, *Environment International*, *GeoHealth*, *New Phytologist*, *Global Change Biology*, *Climate Dynamics*, *Earth Interactions*, *IPCC*, *Nature Communications*
- Workshop and Conference Committees: Association of Pacific Coast Geographers committee 2010, AMS Fuels Treatment Planning in a Changing Climate Workshop 2011, AFE Fuels Treatment Planning in a Changing Climate Workshop 2011, NSF-EPSCoR Tristate session organizer 2012, NSF EPSCoR Innovative Working Group organizer 2012, Idaho Climate Forum organizer 2012, Northwest Climate Conference (chair 2015; committee 2016-2017), Science Education contributor McCall Outdoor Science School

PRODUCTS

[Climate Engine](#)
[Climate Toolbox](#)
[Gridded Surface Meteorological Data](#)
[CMIP5 Downscaled Climate Scenarios](#)
[California Climate Tracker](#)
[Westwide Drought Tracker](#)
[North American Freezing Level Tracker](#)
[ENSO Climate Risks](#)
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