

Lauren E Parker
Curriculum vitae

Department of Geography
University of Idaho
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EDUCATION

- Ph.D. University of Idaho, Moscow, ID** **2017**
Department of Geography, advisor: Dr. John Abatzoglou
Certificate in Environmental Water Science, Environmental Science Program, May 2016
- M.S. Oregon State University, Corvallis, OR** **2009**
Department of Geoscience, advisor: Dr. Anne Nolin
Graduate Certificate in GIS and Remote Sensing, Geosciences Department, June 2009
- A.B. Mount Holyoke College, South Hadley, MA** **2006**
Department of Earth and Environment

PROFESSIONAL EXPERIENCE

- Postdoctoral Research Scientist** **2017 - present**
University of Idaho Department of Geography, Moscow, ID
- Conference Coordinator** **2015**
6th Annual Northwest Climate Conference, Coeur d'Alene, ID
- Assistant Professor of Geoscience** **2010 - 2013**
Salt Lake Community College, Salt Lake City, UT
- GIS and Natural Resources Specialist** **2009**
Sperry Ridge, Inc., Eugene, OR

REFEREED PUBLICATIONS

Parker LE and Abatzoglou JT. Shifts in the thermal niche of almond under climate change. *Climatic Change* (in press, doi: 10.1007/s10584-017-2118-6)

Abatzoglou JT and Parker LE. Climate change and the American West. *Idaho Law Review* (Forthcoming, *Natural Resources and Environmental Law Edition*, 2018)

Parker LE and Abatzoglou JT (2017) Comparing mechanistic and empirical approaches to modeling the thermal niche of almond. *International Journal of Biometeorology* 61(9):1593. doi: 10.1007/s00484-017-1338-9

Hicke JA, Abatzoglou JT, Daley-Laursen S, Esler J, and Parker L (2016) Using scientific conferences to engage the public on climate change. *The Bulletin of the American Meteorological Society* 98(2):225. doi: 10.1175/BAMS-D-15-00304.1

Parker LE and Abatzoglou JT (2016) Projected changes in cold hardiness zones over CONUS. *Environmental Research Letters* 11(3):034001. doi: 10.1088/1748-9326/11/3/034001

Parker LE and Abatzoglou JT (2015) Spatial coherence of extreme precipitation events in the Northwestern United States. *International Journal of Climatology* 36(6):2451. doi: 10.1002/joc.4504

Edwards LM, Bunkers MJ, Abatzoglou JT, Todey DP, and Parker LE (2014) October 2013 Blizzard in Western South Dakota. *Bulletin of the American Meteorological Society* 95(9):S23

EXTERNAL FUNDING

Current

Mapping the current and future suitability of specialty crop cultivation in the Northwest 2017-
USDA Northwest Climate Hub, Co-I (\$40,000)

Completed

Climatic and geomorphic triggering mechanisms of Cascadian periglacial debris flows 2008
The Mazamas, Co-I (\$1000)

INVITED TALKS

Will the grass always be greener? Climate change impacts on agricultural industries 2016
RTF Turf Producers Association National Conference; Nashville, TN

Climate change and Northwest agriculture: Boom or bust? 2016
Turf, Tree, and Landscape Conference; Post Falls, ID

Climate change and Northwest agriculture 2015
Coeur d'Alene Rotary Club; Coeur d'Alene, ID

Public perception on US nuclear policy after the Fukushima Disaster 2011
Shittennoji University IBU; Habikino, Osaka, Japan

GIS and earthquake preparedness: A case study of Salt Lake City, Utah 2011
Shittennoji University IBU; Habikino, Osaka, Japan

CONFERENCE AND NON-REFEREED PUBLICATIONS

Parker LE and Abatzoglou JT (2016) *The Next California? Projected shifts in the climatological niche for perennial fruit and nut crops under climate change*. Northwest Climate Conference; Stevenson, WA

Parker LE and Abatzoglou JT (2015) *Projected changes in cold hardiness zones and implications for Northwest agriculture* Northwest Climate Conference; Coeur d'Alene, ID

Parker LE and Abatzoglou JT (2015) *Projected changes in cold hardiness zones over CONUS*. REACCH Annual Conference; Moscow, ID *Awarded best poster at PhD level

Parker LE and Abatzoglou JT (2014) *Spatial coherence of extreme precipitation across the Northwestern United States*. Pacific Northwest Climate Science Conference; Seattle, WA

Edwards LM, Bunkers MJ, Abatzoglou JT, Todey DP, and Parker LE (2014) *Climatological context of extreme events: The South Dakota blizzard of October 2013*. REACCH Annual Conference; Richland, WA

Abatzoglou JT, Farrell PD, Parker LE (2013) *Characteristics of extreme precipitation events across the Pacific Northwest*. Center for Environmental Research Education and Outreach; Pullman, WA

Parker L (2011) *Bringing international collaboration into the classroom: The Salt Lake Community College faculty exchange program*. Utah International Higher Education Summit; Salt Lake City, UT

Iles, P. ed., and Coauthors including L Parker (2011) *A multifaceted study of the condition of the Jordan River*. Spring Runoff Conference; Utah State University; Logan, UT

Grant GE, Nolin AW, and Coauthors including L Parker (2010) *From atmospheric rivers to rivers of debris: Coupling extreme precipitation events, glacial retreat, debris flows, and channel changes on Mount Rainier, Washington* MtnClim Consortium for Integrated Climate Research in Western Mountains; HJ Andrews Research Forest; Blue River, OR

Parker LE (2009) *Meteorological conditions associated with rain-related periglacial debris flows on Mount Hood, Oregon and Mount Rainier, Washington* (MS Thesis, Oregon State University)

Parker L and Nolin AW (2009) *Climatological and meteorological conditions associated with rain-induced periglacial debris flows in the Cascade Range, USA*. European Geophysical Union; Vienna, Austria

Nolin AW and Parker L (2008) *Climatic and geomorphic triggering mechanisms of Cascadian periglacial debris flows*. Northwest Glaciologists; Seattle, WA

CAMPUS AND DEPARTMENTAL TALKS

- A climate science primer* 2017
Masters in Environmental Management, Western State Colorado University; Gunnison, CO
- Adapting the food system to climate change: Opportunities and challenges* 2017
Department of Environmental Science, Colorado Mesa University; Grand Junction, CO
- Climate change impacts to agriculture* 2017
Masters in Environmental Management, Western State Colorado University; Gunnison, CO
- Climate shapes our world* 2016
Colorado Climate Center; Fort Collins, CO
- The hydroclimate of the Northwest: Extremes, change, and implications for agriculture and water security* 2015
Department of Geography, University of Idaho; Moscow, ID

TEACHING EXPERIENCE

Salt Lake Community College

Courses Taught

Earth Surface Environments*
(Fall and Spring, 2010 - 2013)
Natural Hazards*
(Fall and Spring, 2010 - 2013)
Geospatial Technology (Fall, 2010 - 2012)
Applied GIS I (Spring 2011 - 2013)
Independent Studies (Spring 2011 - 2013)

Oregon State University

Courses Taught (TA)

Cartography (Fall 2007)
Physical Geography: Surface of the Earth
(Spring 2008; Lead TA, Fall 2008)
Climatology (Spring 2009)

*Indicates classroom and online formats

RESEARCH EXPERIENCE

University of Idaho

Applied Climate Science Lab, Graduate Research Assistant 2013 - 2017
Dissertation: Modeling the niche for perennial agriculture under current and future climate

Oregon State University

Mountain Hydrology Research Group, Graduate Research Assistant 2008
Thesis: Meteorological conditions associated with rain-induced periglacial debris flows on Mount Hood, Oregon and Mount Rainier, Washington

National Park Service, Delaware Water Gap NRA

Conservation Intern, Division of Research and Resource Planning 2006 - 2007

PROFESSIONAL AND INSTITUTIONAL SERVICE

Journal Reviewer

Physical Geography, Climate Research, Fire Ecology

Conference Committees

7 th Annual Northwest Climate Conference	2016
6 th Annual Northwest Climate Conference (Coordinator and Committees)	2015

University of Idaho Committees

Progress and Tenure Committee	2017, 2014
Faculty Search Committee	2015, 2014

Salt Lake Community College

Committees

Faculty Senate	2010 - 2013
Academic Calendar Committee	2013
Faculty Search Committee	2012
Student Clubs Advisor	2010 - 2012

Curriculum Design and Assessment

Online course development for Earth Surface Environments	2012
Assessment plan for Earth Surface Environments	2011 - 2012

SELECTED OUTREACH AND COMMUNITY INVOLVEMENT

Moscow Food Cooperative

Food for Thought Sustainability Film Series Committee	2015 - 2016
Community Contributions Committee	2015 - 2016

University of Idaho

HOIST: A STEM-based college preparatory program for Native American high school students	2014 - 2015
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REACCH Teacher Workshops Connecting Agriculture and Climate Science with the K-12 Classroom	2014 - 2015
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MEDIA COVERAGE AND SCIENCE COMMUNICATION

Media Coverage

Idaho Public Radio, Moscow-Pullman Daily News, The Argonaut, University of Idaho News, Environmental Research Web, AgClimate.net

Science Communication

Science and History Interpretive Guide, Rocky Mountain Biological Laboratory 2017

Letters, Op-Eds, Articles

Crested Butte News, RuMBLer of the week (weekly series of scientist interviews) 2017

Crested Butte News, Letter to the Editor 2017

AWARDS AND HONORS

Research Awards

Climatic influences on Cascadian periglacial debris flows 2008
Mount Holyoke College, \$1000

Additional Awards and HonorsUniversity of Idaho

Diane Haynes Memorial Outstanding Graduate Student Award 2017

Deans Graduate Student Award 2017

Oregon State University

Muckleston Award 2009

AFFILIATIONS, CERTIFICATIONS, AND TECHNICAL SKILL SETS

Affiliations

American Meteorological Society

Association of American Geographers

Certifications

Environmental Water Science Certificate, University of Idaho 2017

Graduate Certificate in GIS and Remote Sensing, Oregon State University 2009

Specialized Software and Scripting

The ArcGIS suite, including ArcHydro

MATLAB

ENVI

Products

Data produced for [interactive cold hardiness zones mapping](#)

Additional data currently in development for [Northwest Climate Toolbox](#)

TEACHING AREAS

Prepared Courses

Environmental Geography
Introductory GIS
Climate Change: Science, Adaptation, and
Mitigation
Natural Hazards

Areas of Teaching Interest

Biogeography and Conservation
Water Resources Science and Management
Quantitative Skills for Environmental
Science
Introductory Remote Sensing

REFERENCES

John Abatzoglou

Associate Professor of Geography
University of Idaho
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Steven Daley-Laursen

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Anne Nolin

Professor, College of Earth, Ocean, and
Atmospheric Sciences
Head, Mountain Hydroclimatology Research
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