

CURRICULUM VITAE

Jason S. Sibold

ADDRESS

Department of Anthropology
1787 Campus Delivery
Colorado State University

PHONE

(970) 491-4801

EDUCATION

2005	PhD., Department of Geography, University of Colorado, Boulder.
2001	M.A., Department of Geography, University of Colorado, Boulder.
1998	B.A., Department of Geography, University of Colorado, Boulder.

ACADEMIC POSITIONS

(2008-present) Assistant Professor, Geography, Colorado State University

OTHER POSITIONS

Faculty Affiliate at CSU: 1) Center for Disaster Risk Analysis, 2) Water Faculty, and 3) Environmental Affairs Program
(2007-08) Postdoctoral Scholar, Department of Geography, University of Nevada, Reno
(2005-06) Fulbright Fellow and Visiting Professor, Department of Forest Sciences, Universidad Austral de Chile, Valdivia, Chile

PUBLICATIONS

Refereed Journal Articles:

- Kilpatrick, M., F. Biondi, S. Strachan, and **J.S. Sibold**. *In Press*. Fire history of a mixed conifer ecosystem in the south-eastern Great Basin, USA.
- Urza, A.K., and **J.S. Sibold**. 2013. Assessing a non-destructive aging method for seedlings of four conifer species in northwestern Glacier National Park, Montana. *Western Journal of Applied Forestry* 28: 22-29.
- Cheek, J.W., F. Biondi, **J.S. Sibold**, and R. Tausch. 2012. Fuel analysis and potential fire behavior in mixed conifer woodlands of the Great Basin, Nevada, USA. *Physical Geography* 33(3): 205–228.
- Biondi, F., L.P. Jamieson, S. Strachan, **J. Sibold**, 2011. Dendroecological testing of the pyroclimatic hypothesis in the central Great Basin, Nevada, USA. *Ecosphere* 2:art5. [doi:10.1890/ES10-00068.1]
- González, M.E., T.T. Veblen, and **J.S. Sibold**,. 2010. Influence of fire severity on stand development of *Araucaria araucana* – *Nothofagus pumilio* stands in the Andean cordillera of south-central Chile, *Austral Ecology*, 35, 597-615.
- Dilts, T.E., **J.S. Sibold**, and F. Biondi. 2009. A weights-of-evidence model for mapping the probability of fire occurrence in Lincoln County, Nevada, *Annals of the Association of American Geographers*, 99, 1-16.
- Veblen, T.T., T. Kitzberger, E. Raffaele, M. Mermoz, M.E. González, **J.S. Sibold**, and A. Holz. 2008. The historical range of variability of fires in the Andean-Patagonian *Nothofagus* forest region, *International Journal of Wildland Fire*, 17, 724-741.
- Sibold, J.S.**, T.T. Veblen, K. Chipko, L. Lawson, E. Mathis, and J. Scott. 2007. Influences of secondary disturbances of lodgepole pine stand development in Rocky Mountain National Park, *Ecological*

Applications, 17, 1638–1655.

- Sibold, J.S.**, and T.T. Veblen. 2006. Relationships of subalpine forest fires in the Colorado Front Range to interannual and multi-decadal scale climate variation. *Journal of Biogeography*, 33, 833-842.
- Schumacher, S., B. Reineking, **J.S. Sibold**, and H. Bugmann. 2006. Modeling the impact of climate and vegetation on fire regimes in mountain landscapes. *Landscape Ecology*, 21, 539-554.
- Sibold, J.S.**, T.T. Veblen, and M.E. González. 2006. Spatial and temporal variation in historic fire regimes in subalpine forests across the Colorado Front Range. *Journal of Biogeography*, 33, 631-647.
- Schoennagel, T., T.T. Veblen, W.H. Romme, **J.S. Sibold**, and E.R. Cook. 2005. Annual (ENSO) and decadal (PDO) climate teleconnections affecting drought-induced fire occurrence in Rocky Mountain subalpine forests. *Ecological Applications* 15:2000-2014.
- González, M.E., T.T. Veblen, and **J.S. Sibold**. 2005. Fire history of *Araucaria-Nothofagus* forests in Villarica National Park, Chile. *Journal of Biogeography* 32, 1187-1202.
- Donnegan, J.A., T.T. Veblen and **J.S. Sibold**. 2001. Climatic and human influences on fire history in Pike National Forest, central Colorado, Can. *J. of Forest Research* 31, 1526-1539.
- Sherriff, R.L., T.T. Veblen, and **J.S. Sibold**. 2001. Fire history in high elevation subalpine forests in the Colorado Front Range. *Ecoscience* 8, 369-380.

Referred Proceedings/Transactions

- Glantz M., S. Temirbekov, **J. Sibold**, 2011. The Paleobiogeography of Central Asia: testing the validity of the Neandertal Range. *PaleoAnthropology* 2011:A13
- Beeton T., A. Trainer, M. Glantz, **J. Sibold**, 2011. GIS Modeling of Paleolithic Hominin Landscape Exploitation Strategies in Central Asia. *PaleoAnthropology* 2011:A2.

Non-Refereed Proceedings/Transactions:

- Sibold, J.S.** 2013. Testimony before the U.S. House Committee on Natural Resources. April 11, 2013. (online: <http://naturalresources.house.gov/uploadedfiles/siboldtestimony04-11-13.pdf>)

CONTRACTS & GRANTS

- (2013) Assessment of Spruce Beetle, Western Balsam Bark Beetle, and Douglas-Fir Beetle in and Adjacent to Rocky Mountain National Park, US Department of Interior
- (2013) *Spatial dynamics of burn severity and post-fire recovery in the High Park Fire burn area, Colorado, USA*, National Science Foundation (PI: M. Lefsky, Colorado State University)
- (2012) *Response to the High Park Fire, Larimer County, Colorado*, National Science Foundation RAPID Program, Biological Sciences (PI: M. Lefsky)
- (2012) *Forest Fuel Model: Rocky Mountain National Park*, National Park Service, US Department of Interior
- (2012) *Trend Analysis of Global Change Impacts on Rocky Mountain National Park*, Rocky Mountain National Park, US Department of Interior
- (2011) *Fire History of Great Sand Dunes National Park and Preserve*, Research Reserve Fund, National Park Service, US Department of Interior
- (2011) *Historic Range of Variability of Wildfire and Spruce Beetle Outbreaks, San Juan Mountains, Colorado*. US Forest Service Aldo Leopold Wilderness Research Institute
- (2010) *Landscape Modeling and Inventory of Archaeological Resources on the Arapaho and Roosevelt National Forest and Pawnee Grassland*, USDA Forest Service
- (2010) *Regeneration status and dynamics of rare ponderosa pine (Pinus ponderosa) stands in western Rocky Mountain National Park*, Cooperative Ecosystems Studies Unit, DOI National Park Service
- (2010) *Mountain pine beetle altered forest fuel influences on wildfire in Glacier National Park*, Research Reserve Fund, National Park Service, US Department of Interior
- (2010) *Regeneration Status and Dynamics of a Rare Ponderosa Pine (Pinus ponderosa) Stand in Western Rocky Mountain National Park*
- (2010) *Pre-settlement fire patterns: Records of natural fire or anthropogenic fire use?* Joint Fire Science

Program, US Department of Agriculture
(2009) *Investigation into the Relationships between Disturbance History and Mountain Pine Beetle Outbreak Severity and Consequences in the Lodgepole Pine Forests, Rocky Mountain National Park*, Cooperative Ecosystems Studies Unit, DOI National Park Service

PRESENTATIONS (abbreviated)

- 2013, *Spruce Beetles and Wildfire in the Southern Rocky Mountains*, The Forest We Live In: A Forest Health Workshop, Telluride, CO, May 22.
- 2013, Timothy Assal and **Jason Sibold**, *Modeling Mountain Pine Beetle Disturbance in Glacier National Park using Multiple Lines of Evidence*, April 13, Association of American Geographers, Los Angeles, CA
- 2013, Oral testimony before the U.S. House Committee on Natural Resources. April 11.
- 2012, *Climate Change Implications for forest change in western Rocky Mountain National Park*, Feb. 2012, Presentation to the ecosystem management and interpretation staff of Rocky Mountain N.P., Estes Park, CO
- 2012, *Rapid Forest Change Stresses Importance of Adaptive Management: A Case Study of Ponderosa Pine in Western Rocky Mountain National Park, CO*, March 28, 2012, Estes Park, CO
- 2012, *Pre-settlement Fire History: Records of Natural Fire or Anthropogenic Fire Use?* Anthropology Department annual "Connections" talk, Spring 2012. Fort Collins, CO
- 2012, *Using recent disturbance events to understand climate change implications for Rocky Mountain subalpine forests*, Invited presentation to the National Park Service National Climate Change office and Inventory and Monitoring office, Nov. 16. Fort Collins, CO
- 2011, Alexandra Urza and **Jason Sibold**. *Niche differentiation during canopy recruitment promotes coexistence between shade intolerant conifer species*. Association of American Geographers Great Plains/Rocky Mountain Division Annual Meeting, Denver, CO
- 2011, Tim Assal (Graduate Student) and Jason Sibold. *Utilizing Historical Data to Detect Past Ecosystem Disturbance in Glacier National Park*, Association of American Geographers Great Plains/Rocky Mountain Division Annual Meeting, Denver, CO
- 2011, *Mountain Pine Beetle Impacts on Ponderosa Pine: A Climate Change-Ecosystem Management Interactions Case Study*, Association of American Geographers Annual Meeting, Seattle, WA, April.
- 2011, *The flameless fire of pine beetles? The ecological consequences of the mountain pine beetle outbreak for forest landscapes in Rocky Mountain National Park*, Rocky Mountain National Park Lyceum Series, Estes Park, CO, Feb. 19.
- 2011, *Disturbance Type, Disturbance Interactions, and the Regeneration Niche: Implications of climate change for future forests of the Rocky Mountains*, Presentation to the management and education staff of Rocky Mountain National Park, Estes Park, CO, Feb. 16.
- 2011, *Forest Ecosystem Management in a Warming World: A case study of rare ponderosa pine stands in western Rocky Mountain National Park*, Presentation to RMNP Managers, Estes Park, CO, Jan. 20.
- 2010, *Are the trees falling? How pine beetle and wildfire shape Rocky Mountain forests*, State of the Rockies Project Speaker Series, Colorado College, Colorado Springs, CO, Sept. 13.
- 2010, *The flameless fire of pine beetles? The ecological consequences of the mountain pine beetle outbreak for forest landscapes in Rocky Mountain National Park*, Rocky Mountain National Park Saturday Night in the Park Lecture Series, Grand Lake, CO, Sep. 4.
- 2010, *Fire history of the Alerce (*Fitroya cupressoides*) forest type, south-central Chile*, Association of American Geographers Annual Meeting, Washington, D.C., April 15.
- 2010, *Rediscovering Sauer: Cultural learnings of a biogeographer*, Geography Symposium Series, Department of Geography, University of Colorado, Boulder, CO, April 2.
- 2010, *Disturbance and management history influences on MPB outbreak severity and post-outbreak stand development*, Rocky Mountain National Park, Estes Park, CO, March 30.
- 2009, *Disturbance and management history influences on MPB outbreak severity and post-outbreak stand development*, Rocky Mountain National Park, Mountain Pine Beetle Science Symposium,

December, Colorado State University, Fort Collins, CO, Dec. 11.
2008, *The role of ignitions in the occurrence of wildfire in forest ecosystems of the Great Basin*, Association of American Geographers Annual Meeting, Boston, MA.
2008, *Separating rabbit hunts from lightning strikes: using spatial pattern to identify human and natural influences on fire*, Department of Anthropology, Colorado State University, Fort Collins, CO.
2008, *Spatial modeling of fire occurrence in piñon-juniper ecosystems of the southern Great Basin*, Bureau of Land Management Field Office, Ely, NV.

GRADUATE STUDENTS SUPERVISED

Graduate Committee Chaired:

Tim Assal, PhD, Graduate Degree Program in Ecology
Lucy Burris, PhD, Graduate Degree Program in Ecology
Scott Esser, MS, Graduate Degree Program in Ecology
Jean Fleming, MS, Graduate Degree Program in Ecology
Carlyn Perovich, MS, Graduate Degree Program in Ecology
David Scott, PhD., Graduate Degree Program in Ecology
Freddy Saavedra, Ph.D., Geosciences, (co-advised with Dr. Stephanie Kampf (ESS))
Alexandra Urza, MS, Graduate Degree Program in Ecology, Graduated Spring, 2012

Graduate Committee Memberships:

Colter Kinner (PhD), Political Science
Emily Thron (PhD), Sociology
Katie Renwick (PhD), Graduate Degree Program in Ecology
Justin Ziegler (MS), Forest & Range Stewardship
David Gwenzi (PhD), Department of Ecosystem Science and Sustainability
Niah Venable (PhD), Department of Geosciences
Leia Jamison (MS), 2008, Department of Geography, University of Nevada, Reno
Mackenzie Kilpatrick (MS), 2009, Department of Geography, University of Nevada, Reno
John Cheek (MS), 2009, Department of Geography, University of Nevada, Reno
Matt Diskin (MS), 2010, Department of Forest, Range, & Watershed Stewardship, CSU
Annie Maggard (MA), 2011, Department of Anthropology
Abe Thompson (MA), 2011, Department of Anthropology
Aziza Bayou (MA), 2011, Department of Anthropology
Jim Bertolini (MA), 2011, History Department
Phil Graeve (MS), 2012, Department of Forest, Range, & Watershed Stewardship
Cara Moore (MS), 2012, Department of Forest, Range, & Watershed Stewardship
Graham Sexstone (MS), 2012, Watershed Science Program
Attia Alsanousi (MS), 2012, Forestry Department
Sarah Bisbing (PhD), 2013, Graduate Degree Program in Ecology
Steven Hasstedt (PhD), 2013, Graduate Degree Program in Ecology
Erica Goad (MS), 2013, Graduate Degree Program in Ecology
Tyler Beeton (MA), 2013, Department of Anthropology
Daniel West (PhD), 2013, Bioagricultural Science and Pest Management

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Memberships in professional societies:

Association of American Geographers
Ecological Society of America

Grant Refereeing

Natural Sciences and Engineering Research Council of Canada

Manuscript Refereeing:

Arctic, Antarctic, and Alpine Research, Canadian Journal of Forest Research, Ecology, Ecological Applications, Fire Ecology, Forest Ecology and Management, International Journal of Wildland Fire, Journal of Arid Environments, Journal of Ecology, Landscape and Urban Planning, Vegetation Science, University Press of Colorado

SERVICE/OUTREACH (abbreviated)

- Interviewed for Associated Press story “Spending to fight raging wildfires tops \$1 billion,” August 20, 2013.
- Invited speaker, The Wilderness Society Smith Conservation Fellows Annual Retreat, April, 2013.
- Organized a panel discussion on climate change and wildfire for the Colorado State University School of Global Environmental Sustainability, April 10, 2013.
- Guest on local National Public Radio (KUNC) to talk about climate change and wildfires, April 10, 2013.
- Guest on *Living on Earth* radio show (on National Public Radio) focused on climate change and wildfires, Feb. 1, 2013 (link: <http://www.loe.org/shows/segments.html?programID=13-P13-00005&segmentID=6>)
- Interviewed for story in *The Atlantic* on Jan, 24, 2013 (link: <http://www.theatlantic.com/national/archive/2013/01/how-climate-change-could-wipe-out-the-western-forests/267457/>)
- Field trip leader for Jonathan Jarvis (Director of the National Park Service) and John Francis (Vice President of Research, Conservation and Exploration for the National Geographic Society) in Rocky Mountain National Park, focus on climate change implications for forest systems (August, 2012)
- Panelist for SOGES Managing the Planet Series (Climate Change and Bark Beetles) Spring, 2012
- Vegetation working group facilitator, Border Crossing: Preparing for & Adapting to Climate Change Effects in Northern Colorado, Estes Park, CO Nov. 16-17, 2010
- Symposium Organizer: *Mountain Pine Beetle Science Symposium: Key questions and current research in the southern Rockies*, Colorado State University, Fort Collins, CO, December 11, 2009 (Co-organizers: William Romme, Natural Resources Ecology Lab, and Monique Rocca, Warner College, CSU).
- Member of the Colorado Forest Resource Assessment Working Group, US Forest Service and The Nature Conservancy, 2008