

## **Rosemary L. Sherriff**

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<http://www.uky.edu/AS/Geography/People/Faculty/Sherriff/>

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### **INTERESTS**

Biogeography, forest ecology, disturbance ecology, fire and insect outbreak effects in wildland ecosystems, landscape ecology, disturbance-climate interactions, dendroecology, wildland-urban interface, conservation and ecosystem management

### **EDUCATION**

Ph.D. University of Colorado, Boulder, 2004, Geography

M.A. University of Colorado, Boulder, 2000, Geography

B.S. University of Oregon, 1996, Geography, Environmental Studies minor

### **FACULTY APPOINTMENTS**

2007 – Assistant Professor, Department of Geography, University of Kentucky

2005 – 2007 Assistant Professor, Geography and Environmental Studies, University of Hawaii - Hilo  
Faculty, Tropical Conservation Biology and Environmental Science Graduate Program

### **OTHER PROFESSIONAL EXPERIENCE**

2004 Post-doctoral Research Associate, Geography, University of Colorado, Boulder

1999 – 2004 Research Assistant, Biogeography Lab - Geography, University of Colorado, Boulder

2003 Course Instructor, Department of Geography, University of Colorado, Boulder

2001 – 2003 Research Supervisor, Student Undergraduate Research Experience (SURE) and  
Undergraduate Research Opportunity Program (UROP), University of Colorado

1998 – 1999 Teaching Assistant, Department of Geography, University of Colorado, Boulder

1998 Research Technician, U.S.G.S., Biological Resource Division, Corvallis, Oregon

1996 – 1998 Research Assistant, Department of Geography, University of Oregon

1996 Research Assistant, Department of Geosciences, Oregon State University

### **AWARDS, FELLOWSHIPS AND SCHOLARSHIPS**

2008 Summer Research Fellowship, University of Kentucky

2002 – 2004 National Science Foundation - Doctoral Dissertation Improvement Award

2003 – 2004 Gilbert F. White Doctoral Fellowship in Geography, University of Colorado  
University Fellowship, Graduate School, University of Colorado

Mabel Duncan Memorial Scholarship, Geography, University of Colorado

2002 – 2003 1<sup>st</sup> place Ph.D. Student Research Proposal Award, Biogeography Specialty Group,  
Annual Meeting of the Association of American Geographers, Los Angeles

1<sup>st</sup> place Ph.D. Student Paper Award, Biogeography Specialty Group, Annual  
Meeting of the Association of American Geographers, Los Angeles

H. Schmoll Fellowship in Colorado Botany, University of Colorado Herbarium

2001 – 2002 University Fellowship, Graduate School, University of Colorado

Edna Bailey Sussman Environmental Internship, University of Colorado

Mabel Duncan Memorial Scholarship, Geography, University of Colorado

2000 – 2001 University Fellowship, Graduate School, University of Colorado  
1999 – 2000 Mabel Duncan Memorial Scholarship, Geography, University of Colorado

### RESEARCH GRANTS AND CONTRACTS

2008 – 2010 Natural Sciences and Engineering Research Council of Canada (NSERC), \$183,400  
PI: L. Daniels (UBC), Co-Investigators: Z. Gedalof (U. Guelph), M. Pisarcic (Carleton U.), R. Sherriff (UK – as collaborator).  
Project: *Historic climate-fire-vegetation interactions of the West versus East Kootenays: implications of climate change and fire suppression.*

2007 – 2010 Cooperative Ecosystem Studies Unit (CESU) Award, Southwest Alaska Network (SWAN), National Park Service, \$64,950 (PI)  
Project: *Spruce bark beetle (Dendroctonus rufipennis)-climate interactions in south-central Alaska*

2006 - 2009 National Science Foundation - Geography and Regional Science Program, \$235,000 (Co-PI)  
Co-Investigators: T. Veblen and T. Schoennagel (University of Colorado, Boulder) and R. Platt (Gettysburg College)  
Project: *Collaborative research: Fire risk and ecological integrity in the wildland urban interface of the Colorado Front Range*

2005 – 2007 CESU Award, Southwest Alaska Network, National Park Service, \$63,476 (PI)  
Project: *Tree-ring reconstruction of historic insect outbreaks, Lake Clark National Park and Preserve, Alaska*

2006 – 2007 Research Grant, Department of Hawaiian Homelands, Land Management Division, \$15,000 (PI)  
Project: *Wildfire/Human Interface Planning Project, Huumula, Hawaii*

2005 – 2006 Research Enhancement Activities Program Grant, NSF EPSCoR Program, University of Hawaii-Hilo, \$12,000 (PI)  
Project: *Investigating long-term climate variability using dendrochronology across environmental gradients on the island of Hawaii*

1999 – 2003 Research Grant, Boulder County Open Space, Colorado, \$5000 (2002-03)  
Research Grant, City of Boulder Open Space and Mountain Parks, Colorado, \$3000  
Co-P.I. T. Veblen, (2001-02)  
Undergraduate Research Opportunity Team Grant, University of Colorado, \$10,800  
funded 6 undergraduate students, Co-P.I. T. Veblen (2001-02)  
Small Research Grants ( $\leq$  \$2000 each)  
Colorado Mountain Club Foundation (1999, 2002)  
John W. Marr Memorial Ecology Fund, University of Colorado (2002)  
Beverly Sears Dean's Small Grant, University of Colorado (1999, 2000, 2001)  
Colorado Natural History Program (1999)

### PUBLICATIONS

Sherriff, R.L. and T.T. Veblen. 2008. Variability in fire-climate relationships in ponderosa pine forests of the Colorado Front Range. *International Journal of Wildland Fire* 17: 50-59. Special Issue on Fire Climatology.

Sherriff, R.L. 2008. Writing journal articles. in *Publishing in Geography: A Guide for New Researchers*. Eds. A. Blunt and C. Souch. Published by the Royal Geographical Society with the Institute of British Geographers. p. 10-11.

Platt, R.W., T.T. Veblen and R.L. Sherriff. 2008. A scenario-based evaluation of forest management goals in the wildland-urban interface. *Natural Hazards Review*. In press.

Sherriff, R.L. and T.T. Veblen. 2007. A spatially-explicit reconstruction of fire regime types in ponderosa pine forests of the Colorado Front Range. *Ecosystems* 10:311-323.

Baker, W.L., T.T. Veblen and R.L. Sherriff. 2007. Fire, fuels, and restoration of ponderosa pine and Douglas-fir forests in the Rocky Mountains, USA. *Journal of Biogeography* 34: 251-269.

Sherriff, R.L. and T.T. Veblen. 2006. Ecological effects of changes in fire regimes in *Pinus ponderosa* ecosystems in the Colorado Front Range. *Journal of Vegetation Science* 17: 205-218.

Platt, R.W., T.T. Veblen and R.L. Sherriff. 2006. Mapping the compatibility of wildfire mitigation and ecological restoration in the wildland-urban interface of Colorado. *Annals of the Association of American Geographers* 96: 455-470.

Hicke, J.A., R.L. Sherriff, T.T. Veblen and G.P. Asner. 2004. Carbon accumulation in Colorado ponderosa pine stands. *Canadian Journal of Forest Research* 34: 1283-1295.

Romme, W.H., T.T. Veblen, M.R. Kaufmann, R. Sherriff and C.M. Regan. 2003. Ecological Effects of the Hayman Fire Part 1: Historical (Pre-1860) and Current (1860-2002) Fire Regimes. *Hayman Fire Case Study Analysis*. U.S.D.A. Forest Service, General Technical Report RMRS-GTR-114.

Romme, W.H., M.R. Kaufmann, T.T. Veblen, R. Sherriff and C.M. Regan. 2003. Ecological Effects of the Hayman Fire Part 2: Historical (Pre-1860) and Current (1860-2002) Forest and Landscape Structure. *Hayman Fire Case Study Analysis*. U.S.D.A. Forest Service General Technical Report RMRS-GTR-114.

Sherriff, R.L., T.T. Veblen and J.S. Sibold. 2001. Fire history in high elevation subalpine forests in the Colorado Front Range. *Écoscience* 8(3): 369-380.

### **Selected Reports**

Sherriff, R.L. 2008. *Tree-ring reconstruction of historic insect outbreaks, Lake Clark National Park and Preserve*. Annual Technical Report. National Park Service, Inventory and Monitoring Program, Southwest Alaska Network (SWAN).

Whitlock, C. and R. Sherriff. 1997. *A 14,000-yr fire history from the mixed conifer forest of Southern Yellowstone National Park*. A final report to the University of Wyoming National Park Service Research Center and Yellowstone National Park.

### **Theses**

Sherriff, R.L. 2004. *The historic range of variability of ponderosa pine in the northern Colorado Front Range: past fire types and fire effects*. Ph.D. Dissertation. University of Colorado, Boulder, Colorado. Advisor: Thomas Veblen, Committee: Susan Beatty, Barbara Buttenfield, Yan Linhart, William Travis

Sherriff, R.L. 2000. *Fire history at high elevation in the Colorado Front Range*. Master's Thesis. University of Colorado, Boulder, Colorado. Advisor: Thomas Veblen, Committee: Susan Beatty, Peter Blanken

## **TEACHING**

University of Kentucky

BIO / GEO 530: Biogeography and Conservation (F 2008)

GEO 130: Earth's Physical Environment (F 2007, Sp 2008, F 2008)

University of Hawaii at Hilo

Graduate courses: Tropical Conservation Biology & Environmental Science (TCBES) Program

CBES 670: Advanced Techniques in GIS (Sp 2005, Sp 2006, Sp 2007)

CBES 694: Landscape Ecology (Sp 2006)

Undergraduate courses: Geography and Environmental Studies

GEOG 101: Geography and the Natural Environment (F 2005, Sp 2006)

GEOG 201: Interpretation of Geographic Data (Sp 2005, F 2005, Sp 2007)

GEOG 480: Geographic Information Systems (Sp 2005, Sp 2006)

GEOG 494: Landscape Ecology (Sp 2006, cross-listed with CBES 694)

Graduate Instructor and TA positions

GEOG 1011: Landscapes and Water (Instructor, Sp 2003; TA 1998, 1999), CU-Boulder

GEOG 323: Biogeography (TA, Sp 1996), University of Oregon

## **OUTREACH ACTIVITIES**

- 2005 - 2008     Expertise and outreach presentations on forest ecology and disturbance history for the Southwest Alaska Network, National Park Service.
- 1999 - 2008     Regional vegetation and fire history expertise, numerous outreach presentations and participation in workshops for the TNC & forest managers of Colorado – Rocky Mountain National Park and USDA Forest Service.
- 2005 - 2007     K-12 outreach for ecology and environmental science technology, Hawaii County.
- 2004             Invited participant, Fire Regime Condition Class (FRCC) / LANDFIRE Workshop, Southwest Region, sponsored by Wildland Fire Leadership Council
- 2004             Scientific expertise. *All Forests – and Their Fires – Are Not Created Equal*. Author: H. Nordaus. Wilderness Magazine. The Wilderness Society.
- 2003             Invited participant, Wildland Fire Workshop, Fort Collins, CO. Organized by Joint Fire Science Program and National Fire Plan.

## **AFFILIATIONS**

Association of American Geographers, Association of Fire Ecology, American Geophysical Union, Ecological Society of America, International Wildland Fire Association, Tree-ring Society