

Curriculum Vitae

Andrew D. Pierce
Department of Natural Resources and
Environmental Management

University of Hawai'i, Manoa
60 Nowelo Street
Hilo, HI 96720
adpierce@hawaii.edu

Education

- 2011. PhD, Geography, Pennsylvania State University
- 2007. MSc, Geography, Pennsylvania State University
- 2002. BA, Mathematics, Dartmouth College

Professional Experience

- 2011 – present. Post-Doctoral Research Associate, Department of Natural Resources and Environmental Management, University of Hawai'i, Manoa. Supervisors Dr. Creighton Litton (UH-Manoa), Dr. Christian Giardina (US Forest Service), and Dr. Susan Cordell (US Forest Service)
- 2009 – 2010. Research Assistant, Vegetation Dynamics Laboratory, Pennsylvania State University, Dr. Alan Taylor, Director.
- 2008 – 2009. Water-Land-Ecosystem Geography Fellow, Department of Geography, Pennsylvania State University.
- 2005 – 2008. Research Assistant, Vegetation Dynamics Laboratory, Pennsylvania State University, Dr. Alan Taylor, Director.
- 2002. Research Intern. Keystone Research Center, Harrisburg, Pennsylvania, Dr. Steve Herzenberg, Director.

Teaching Experience

- Spring, 2011 Teaching Assistant, Geography 363: Geographic Information Systems
- Fall, 2010. Instructor, Geography 010: Introduction to Physical Geography.
- Summer, 2010. Instructor, Geography 010: Introduction to Physical Geography.
- Summer, 2006, 2008-2010. Field Research Supervisor. Train and supervise interns during a field summer in Lassen Volcanic National Park.
- Spring, 2007 Teaching Assistant, Geography 464: Spatial Analysis II

Publications

Peer Reviewed:

- Pierce, Andrew D.** & Alan H. Taylor (2010). Competition and regeneration in quaking aspen-white fir (*Populus tremuloides*-*Abies concolor*) forests in the Northern Sierra Nevada, USA. *Journal of Vegetation Science* 21: 507-519.
- Pierce, Andrew D.** & Alan H. Taylor (2011). Fire severity and seed source influence lodgepole pine (*Pinus contorta* var. *murrayana*) regeneration in the southern Cascades, Lassen Volcanic National Park, California. *Landscape Ecology*.

- Everett, Richard, Carl N. Skinner, Scott L. Stephens, and **Andrew D. Pierce** (draft). Fire regimes and climatic influences of forests in the Peninsula and Transverse Mountains of southern California. *Ecological Applications*.
- Taylor, Alan H., Valerie Trouet, Carl N. Skinner, Scott L. Stephens, & **Andrew D. Pierce** (draft). Human and climatic influences on fire regimes in the Sierra Nevada.
- Taylor, Alan H., Valerie Trouet, Carl N. Skinner, Scott L. Stephens, & **Andrew D. Pierce** (draft). Climatic influences on forest fire regimes of California.

Non-Peer Reviewed:

- Pierce, Andrew D.** (2002). The State of Pennsylvania's Counties. Harrisburg, PA: Keystone Research Center.
- Pierce, Andrew D.**, Steven Herzenberg, & David Bradley (2002). The State of Working Pennsylvania. Harrisburg, PA: Keystone Research Center.
- Pierce, Andrew D.** & Hany Farid (2000). "Dimensionality Reduction of non-Linear Manifolds." Hanover, NH: Image Science Group. Accessible at: <http://www.cs.dartmouth.edu/~farid/research/reducedim.html>.

Invited Presentations

- October 2011. "The Effect of Topography on Heterogeneity in Fire Fuels, Intensity, and Severity." Presentation to Department of Natural Resources and Environmental Management weekly colloquium, University of Hawai'i, Manoa.

Conferences

- April 2011. Presenter: "Landscape Patterns of Vegetation Communities: Fixed or Stochastic?" Association of American Geographers, Annual Meeting. Seattle, WA: April 12-16, 2011.
- April 2010. Session Organizer: "GIS and Remote Sensing Applications in Biogeography." Association of American Geographers, Annual Meeting. Washington, DC: April 14-18, 2010.
- April 2010. Presenter: "Using Aerial Photography Interpretation, Stand Structure Analysis, and GIS to Identify Topographic Effects on Fire Severity, Lassen Volcanic National Park, USA." Association of American Geographers, Annual Meeting. Washington, DC: April 14-18, 2010.
- March 2009. Presenter: "Fire Severity and Post-Fire Regeneration in *Pinus contorta* var. *murrayana* Forests, Lassen Volcanic National Park, California, USA." Association of American Geographers, Annual Meeting. Las Vegas, Nevada: March 22-27, 2009.
- April 2007. Presenter: "Spatial Patterns of Regeneration and Interspecific Competition in Mixed Aspen-White fir Forests in the Southern Cascades, USA." Association of American Geographers, Annual Meeting. San Francisco, CA: April 17-21, 2007.

Awards

2011. Geography Alumni Scholars Graduate Student Award, Department of Geography, Pennsylvania State University.
2011. E. Willard Miller Award, Ph.D. paper, Department of Geography, Pennsylvania State University.
- 2009 – 2010. Outstanding Graduate Research Assistant, Department of Geography, The Pennsylvania State University
2009. Environmental Scholars Fellowship, Earth and Environmental Systems Institute, Pennsylvania State University
- 2008 – 2009. Water-Land Ecosystem Geography Fellowship, Department of Geography, Pennsylvania State University
- 2005 – 2006. Anne C. Wilson Graduate Research Award, College of Earth and Mineral Sciences, Pennsylvania State University

Grants Received

- 2009 – 2011. “Mapping Canopy Fuel Characteristics to Assess Potential Fire Behavior, Lassen Volcanic National Park” (Co-PI). United States Department of Interior, National Park Service. (\$35,333)
- 2009 – 2011. “Doctoral Dissertation Research: Using Neutral Models to Evaluate the Effect of Topography on Landscape Patterns of Fire Severity: A Case Study of Lassen Volcanic National Park” (Co-PI). National Science Foundation, Doctoral Dissertation Research Improvement Grant. (\$11,900)

Reviewer for

Journal of Vegetation Science

Professional Memberships

Association for Fire Ecology
Association of American Geographers, Student Member.
Ecological Society of America