

# **DOMINIK KULAKOWSKI, PH.D.**

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Graduate School of Geography | Clark University | Worcester, MA 01610 USA  
Email: dkulakowski@clarku.edu | Tel.: +1-508-793-7383 | Fax: +1-508-793-8881

## **EDUCATION**

**Ph.D., Geography**, May 2002  
**University of Colorado**, Boulder, CO

**Master of Science, Ecology**, December 1997  
**Pennsylvania State University**, University Park, PA

**Bachelor of Science, Environmental Resource Management**, May 1996  
**Minor, Philosophy**, May 1996  
**Pennsylvania State University**, University Park, PA

## **APPOINTMENTS**

**Clark University**, Worcester, MA  
Graduate School of Geography, Associate Professor, 2013 – present  
Department of Biology, Adjunct Associate Professor, 2013 – present  
Graduate School of Geography, Assistant Professor, 2007 – 2013  
Department of Biology, Adjunct Assistant Professor, 2007 – 2013

**WSL Swiss Federal Institute for Snow and Avalanche Research (SLF)**,  
Davos, Switzerland  
Division of the Alpine Environment, Visiting Fellow, 2015 – 2016

**University of Colorado**, Boulder, CO  
Department of Geography, Research Associate and Lecturer, 2002 – 2007

**WSL Swiss Federal Institute for Snow and Avalanche Research (SLF)**,  
Davos, Switzerland  
Division of the Alpine Environment, Research Associate, 2004 – 2005

**University of Colorado**, Boulder, CO  
Department of Geography, Research and Teaching Assistant, 1998 – 2002

**Pennsylvania State University**, University Park, PA  
Department of Biology, Research and Teaching Assistant, 1996 – 1997

**PEER-REVIEWED PUBLICATIONS** (NAMES OF STUDENTS UNDERLINES)

Casteller, A., T. Häfelfinger, E. Cortés Donoso, K. Podvin, **D. Kulakowski**, and P. Bebi. 2018. Assessing the interaction between mountain forests and natural hazards at Nevados de Chillán, Chile, and its implications for Eco-DRR. *Natural Hazards and Earth System Sciences*. MS No.: nness-2017-348.

Schurman, J.S., V. Trotsiuk, R. Bače, V. Čada, S. Fraver, P. Janda, **D. Kulakowski**, J. Labusova, M. Mikolas, T. Nagel, R. Seidl, M. Synek, K. Svobodova, O. Chaskovskyy, M. Teodosiu, and M. Svoboda. 2018. Disturbance legacies drive large-scale dynamics of Central-Eastern Europe's primary *Picea abies* forests. *Global Change Biology*. DOI: 10.1111/gcb.14041.

Mietkiewicz, N., **D. Kulakowski**, and T. T. Veblen. 2018. Pre-outbreak forest conditions mediate the effects of spruce beetle (*Dendroctonus rufipennis* (Kirby)) outbreaks on fuels in subalpine forests of Colorado. *Ecological Applications*. DOI: 10.1002/eap.1661.

Gill, N., F. Sangermano, B. Buma, and **D. Kulakowski**. 2017. Post-fire conditions conducive to quaking aspen (*Populus tremuloides*) seedling establishment may facilitate forest persistence. *Forest Ecology and Management*. 404: 156-164. <https://doi.org/10.1016/j.foreco.2017.08.008>.

Speer, J.H. and **D. Kulakowski**. 2017. Creating a Buzz: Insect Outbreaks and Disturbance Interactions. in M. Amoroso, L. Daniels, P. Baker and J.J. Camarero, eds. *Dendroecology: Tree-ring Analyses Applied to Ecological Studies*. Springer. New York, NY.

Gill, N., D. Jarvis, T.T. Veblen, S.T.A. Pickett, and **D. Kulakowski**. 2017. Is initial post-disturbance regeneration indicative of longer-term trajectories? *Ecosphere*. 8(8):e01924. DOI: 10.1002/ecs2.1924

Rossi E., I. Granzow de la Cerda, C.D. Oliver, and **D. Kulakowski**. 2017. Tree and stand attributes determine hurricane damage patterns after Hurricane Felix (2007) in Northern Nicaragua. *Forest Ecology and Management*. 400: 199-207. <https://doi.org/10.1016/j.foreco.2017.05.034>.

Mietkiewicz, N., **D. Kulakowski**, J. Rogan, and P. Bebi. 2017. Long-term change in subalpine forest cover, treeline, and species composition in the Swiss Alps. *Journal of Vegetation Science*. 28 (5): 951-964. DOI:10.1111/jvs.12561

**Kulakowski, D.**, R. Seidl, J. Holeksa, T. Kuuluvainen, T. Nagel, M. Panayotov, M. Svoboda, S. Thorn, G. Vacchiano, C. Whitlock, T. Wohlgemuth, and P. Bebi. 2017. A walk on the wild side: disturbance dynamics and the conservation and management of European mountain forest ecosystems. *Forest Ecology and Management*. 388: 120-131. DOI: 10.1016/j.foreco.2016.07.037\*

*\*Web of Science Highly Cited Paper of 2017 (in the top 1% of most cited papers in the academic field of Plant & Animal Science).*

Bebi P., R. Seidl, R. Motta, M. Fuhr, D. Firm, F. Krumm, M. Conedera, C. Ginzler, T. Wohlgemuth, L. Ramstein and **D. Kulakowski**. 2017. Changes of forest cover and disturbance regimes in the mountain forests of the Alps. *Forest Ecology and Management*. 388: 43-56. <http://dx.doi.org/10.1016/j.foreco.2016.10.028>

Panayotov, M., G. Gogushev, E. Tsavkov, P. Vassileva, N. Tsvetanov, **D. Kulakowski**, and P. Bebi. 2017. Abiotic disturbances in Bulgarian mountain coniferous forests – an overview. *Forest Ecology and Management*. 388: 13-28. <http://dx.doi.org/10.1016/j.foreco.2016.10.034>.

**Kulakowski, D.**, M. Svoboda, and P. Bebi. 2017. The central role of disturbances in mountain forests of Europe. *Forest Ecology and Management*. 388: 1-2. DOI: 10.1016/j.foreco.2016.07.034.

Mietkiewicz, M. and **D. Kulakowski**. 2016. Relative importance of climate and mountain pine beetle outbreaks on the occurrence of large wildfires in the western US. *Ecological Applications*: 26 (8): 2523–2535. DOI: 10.1002/eap.1400

**Kulakowski, D.**, T. T. Veblen, and P. Bebi. 2016. Fire severity controlled susceptibility to a 1940s spruce beetle outbreak in Colorado, USA. *PloS ONE*. 11(7): e0158138. <https://doi.org/10.1371/journal.pone.0158138>

Bakaj, F., N. Mietkiewicz, T. T. Veblen, and **D. Kulakowski**. 2016. The relative importance of tree and stand properties in predicting susceptibility to spruce beetle outbreak in the mid-20th century. *Ecosphere*. 7(10): e01485. DOI: 10.1002/ecs2.1485

**Kulakowski, D.**, I. Barbeito, A. Casteller, R.J. Kaczka, and P. Bebi. 2016. Not only climate – interacting drivers of treeline change in Europe. *Geographia Polonica*. 89 (1): 7-15.

Panayotov, M., **D. Kulakowski**, N. Tsvetanov, F. Krumm, I. Barbeito, and P. Bebi. 2016. Climate extremes during high competition contribute to mortality in unmanaged self-thinning Norway spruce stands in Bulgaria. *Forest Ecology and Management*. 369: 74–88.

**Kulakowski, D.** 2016. Kontrolowanie gradacji kornika drukarza (*Ips typographus*, *Dendroctonus spp.*) na obszarach chronionych w XXI wieku. *Leśne Prace Badawcze*: 77 (4): 352–357. DOI: 10.1515/frp-2016-0036. *Also available in English*: Kulakowski, D. 2016. Managing bark beetle outbreaks (*Ips typographus*, *Dendroctonus spp.*) in conservation areas in the 21st century. *Forest Research Papers*: 77 (4): 352–357. DOI: 10.1515/frp-2016-0036.

Temperli, C., S. Hart, T. T. Veblen, **D. Kulakowski**, and A. J. Tepley. 2015. Interactions among spruce beetle disturbance, climate change and forest dynamics captured by a forest landscape model. *Ecosphere*. 6(11):231. <http://dx.doi.org/10.1890/ES15-00394.1>

Panayotov, M., P. Bebi, N. Tsvetanov, N. Alexandrov, L. Laranjeiro Dos Santos, and **D. Kulakowski**. 2015. The disturbance regimes of Norway spruce forests in Bulgaria. *Canadian Journal of Forest Research*. 45: 1143–1153.

Hart, S. J., T. T. Veblen, N. Mietkiewicz, and **D. Kulakowski**. 2015. Negative feedbacks on bark beetle outbreaks: Widespread and severe spruce beetle infestation restricts subsequent infestation. *PLoS ONE*. 10(5): e0127975.

Ghimire, B., C.A. Williams, G. J. Collatz, M. Vanderhoof, J. Rogan, **D. Kulakowski**, and J.G. Masek. 2015. Large carbon release from bark beetle outbreaks across Western United States imposes climate feedback. *Global Change Biology*. 21: 3087–3101.

**Kulakowski, D.** and T. T. Veblen. 2015. Bark Beetles and High-Severity Fires in Rocky Mountain Subalpine Forests. pp. 149-174 in DellaSalla, D. and C. Hanson, eds. *Mixed-high severity fires: ecosystem processes and biodiversity*. Elsevier. San Francisco, CA. 409 pages.

Jarvis, D. and **D. Kulakowski**. 2015. Long-term history and synchrony of mountain pine beetle outbreaks. *Journal of Biogeography*. 42: 1029–1039.

Temperli, C., S. Hart, T. T. Veblen, **D. Kulakowski**, J. Hicks, and R. Andrus. 2014. Are density reduction treatments effective at managing for resistance or resilience to spruce beetle disturbance in the southern Rocky Mountains? *Forest Ecology and Management*. 334: 53–63.

Hart, S. J., T. T. Veblen, K. S. Eisenhart, D. Jarvis, and **D. Kulakowski**. 2014. Drought induces spruce beetle (*Dendroctonus rufipennis*) outbreaks across northwestern Colorado. *Ecology*. 95 (4): 930-939.

Vanderhoof, M., C.A. Williams, Y. Shuai, D. Jarvis, **D. Kulakowski**, and J. Masek. 2014. Albedo-induced radiative forcing from mountain pine beetle outbreaks in forests, south-central Rocky Mountains: Magnitude, Persistence, and Relation to Outbreak Severity. *Biogeosciences*. 11: 563–575.

Hart, S. J., T. T. Veblen, and **D. Kulakowski**. 2014. Do tree and stand-level attributes determine susceptibility of spruce-fir forests to spruce beetle outbreaks? *Forest Ecology and Management*. 318: 44–53.

**Kulakowski, D.**, M.W. Kaye, and D.M. Kashian. 2013. Long-term aspen cover change in the western US. *Forest Ecology and Management*. 299: 52–59.

Nguon, P. and **D. Kulakowski**. 2013. Natural forest disturbances and the design of REDD+ initiatives. *Environmental Science and Policy*. 33: 332-345.

Shinneman, D. J., W.L. Baker, P. C. Rogers, and **D. Kulakowski**. 2013. Fire regimes of quaking aspen in the Intermountain West. *Forest Ecology and Management*. 299: 22–34.

**Kulakowski, D.**, C. Matthews, D. Jarvis, and T. T. Veblen. 2013. Compounded disturbances in subalpine forests in western Colorado favor future dominance by quaking aspen (*Populus tremuloides*). *Journal of Vegetation Science*. 24: 168–176.

Black, S.H., **D. Kulakowski**, B.R. Noon, and D.A. DellaSala. 2013. Do bark beetle outbreaks increase wildfire risks in the central U.S. Rocky Mountains? Implications from recent research. *Natural Areas Journal*. 33(1):59-65.

**Kulakowski, D.** and D. Jarvis. 2013. Low-severity fires increase susceptibility of lodgepole pine to mountain pine beetle outbreaks in Colorado. *Forest Ecology and Management*. 289: 544–550.

Aronson, G. and **D. Kulakowski**. 2012. Bark beetle outbreaks, wildfires, and defensible space: how much area do we need to treat to protect homes and communities? *International Journal of Wildland Fire*. 22(2) 256-265.

**Kulakowski, D.**, D. Jarvis, T.T. Veblen, and J. Smith. 2012. Stand-replacing fires reduce susceptibility to mountain pine beetle outbreaks in Colorado. *Journal of Biogeography*. 39: 2052–2060.

Hanna, P. and **D. Kulakowski**. 2012. The influences of climate on aspen dieback. *Forest Ecology and Management*. 274: 91–98.

Krumm, F., **D. Kulakowski**, A.C. Risch, H. Spiecker, and P. Bebi. 2012. Stem exclusion and mortality in passively managed subalpine forests of the Swiss Alps. *European Journal of Forest Research*. 131:1571–1583.

**Kulakowski, D.**, P. Bebi., and C. Rixen. 2011. The interacting effects of land use change, climate change, and suppression of disturbances on landscape forest structure in the Swiss Alps. *Oikos*. 120 (2): 216–225.

Krumm, F., **D. Kulakowski**, H. Spiecker, P. Duc, and P. Bebi. 2011. Stand development of Norway spruce dominated subalpine forests of the Swiss Alps. *Forest Ecology and Management*. 262 (4): 620–628.

Panayotov, M., **D. Kulakowski**, L. Laranjeiro Dos Santos, and P. Bebi. 2011. Wind disturbances shape old Norway spruce forests in Bulgaria. *Forest Ecology and Management*. 262 (3): 470–481.

**Kulakowski, D.** and D. Jarvis. 2011. The influence of mountain pine beetle outbreaks on severe wildfires in northwestern Colorado and southern Wyoming: a look at the past century. *Forest Ecology and Management*. 261 (1): 1686–1696.

Rogan, J., N. Bumbarger, **D. Kulakowski**, Z.J. Christman, D.M. Runfola, and S.D. Blanchard. 2010. Improving forest type discrimination with mixed lifeform classes using fuzzy classification thresholds informed by field observations. *Canadian Journal of Remote Sensing*. 36 (6): 699–708.

Bebi, P., **D. Kulakowski**, and C. Rixen. 2009. Snow avalanche disturbances in forest ecosystems – state of research and implications for management. *Forest Ecology and Management*. 257 (9): 1883-1892.

**Kulakowski, D.** and T. T. Veblen. 2007. Effect of prior disturbances on the extent and severity of wildfire in Colorado subalpine forests. *Ecology*. 88(3): 759–769.

Kurzel, B. P., T. T. Veblen, and **D. Kulakowski**. 2007. A typology of stand structure and dynamics of Quaking aspen in northwestern Colorado. *Forest Ecology and Management*. 252 (1-3):176-190.

Schoennagel, T, T. T. Veblen, **D. Kulakowski**, and A. Holz. 2007. Multidecadal climate variability and climate interactions affect subalpine fire occurrence, western Colorado (USA). *Ecology*. 88(11): 2891–2902.

Rixen, C., S. Haag, **D. Kulakowski**, and P. Bebi. 2007. Natural disturbance modulates plant diversity and species composition in subalpine forest. *Journal of Vegetation Science*. 18 (5): 735-742.

**Kulakowski, D.** and T. T. Veblen. 2006. The effect of fires on susceptibility of subalpine forests to a 19<sup>th</sup> century spruce beetle outbreak in western Colorado. *Canadian Journal of Forest Research*. 36(11): 2974-2982.

**Kulakowski, D.**, C. Rixen, and P. Bebi. 2006. Changes in forest structure and in the relative importance of climatic stress as a result of suppression of avalanche disturbances. *Forest Ecology and Management*. 223 (1-3): 66-74.

**Kulakowski, D.** and T. T. Veblen. 2006. Historical range of variability for forest vegetation of the Grand Mesa National Forest, Colorado. USDA Forest Service, Rocky Mountain Region, Golden, CO and the Colorado Forest Restoration Institute, Fort Collins, CO.

**Kulakowski, D.**, T. T. Veblen, and B. P. Kurzel. 2006. Influences of infrequent fire, elevation and pre-fire vegetation on the persistence of quaking aspen (*Populus tremuloides* Michx.) in the Flat Tops area, Colorado, USA. *Journal of Biogeography*. 33: 1397-1413.

Bigler, C., **D. Kulakowski**, and T. T. Veblen. 2005. Multiple disturbance interactions and drought influence fire severity in Rocky Mountain subalpine forests. *Ecology*. 86(11): 3018-3029.

**Kulakowski, D.**, T. T. Veblen, and S. Drinkwater. 2004. The persistence of quaking aspen (*Populus tremuloides*) in the Grand Mesa area, Colorado. *Ecological Applications*. 14 (5): 1603-1614.

**Kulakowski, D.** and T. T. Veblen. 2003. Subalpine forest development following a blowdown in the Mount Zirkel Wilderness, Colorado, USA. *Journal of Vegetation Science*. 14.5: 653-660.

Bebi, P., **D. Kulakowski**, and T. T. Veblen. 2003. Interactions between fire and spruce beetles in a subalpine Rocky Mountain forest landscape. *Ecology*. 84 (2): 362-371.

**Kulakowski, D.**, T. T. Veblen, and P. Bebi. 2003. Effects of fire and spruce beetle outbreak legacies on the disturbance regime of a subalpine forest in Colorado. *Journal of Biogeography*. 30 (9): 1445-1456.

**Kulakowski, D.** and T. T. Veblen. 2002. Influences of fire history and topography on the pattern of a severe wind blowdown in a Colorado subalpine forest. *Journal of Ecology*. 90 (5): 806-819.

Baker, W. L., P. H. Flaherty, J. D. Lindemann, T. T. Veblen, K. S. Eisenhart, and **D. Kulakowski**. 2002. Effects of vegetation on the impact of a severe blowdown in the Southern Rocky Mountains, USA. *Forest Ecology and Management*. 168 (1-3): 63-75.

Veblen, T. T., **D. Kulakowski**, K. S. Eisenhart, and W. L. Baker. 2001. Subalpine forest damage from a severe windstorm in Northern Colorado. *Canadian Journal of Forest Research*. 31 (12): 2089-2097.

Uhl, C., **D. Kulakowski**, J. Gerwing, M. Brown, and M. Cochrane. 1996. Sustainability: A touchstone concept for university operations, education, and research. *Conservation Biology*. 10 (5): 1308-1311.

#### **SELECTED CONFERENCE PROCEEDINGS AND ABSTRACTS (LEAD AUTHOR)**

2017. Are European mountain forests wilder than we have acknowledged? Conference proceedings: The Association of American Geographers Annual Meeting. Boston, MA. April 5-9.

2016. Zagrożenia ekosystemów leśnych spowodowane zaburzeniami. Zimowa Szkoła Leśna. Instytut Badawczy Leśnictwa, Raszyn, Poland.

2014. Reduced susceptibility of young stands to spruce-beetle outbreaks is mediated by climate. Conference proceedings: The Association of American Geographers Annual Meeting. Tampa, FL. April 8-12.

2012. The effect of compounded disturbances on the regeneration of subalpine forests in western Colorado. Conference proceedings: The Association of American Geographers Annual Meeting. New York, NY. February 24-28.

2010. A dendroecological investigation of the effect of mountain pine beetle outbreaks on forest susceptibility to stand replacing fire. Conference proceedings: The Association of American Geographers Annual Meeting. Washington, DC. April 14-18.

2009. The effect of low-severity fires on susceptibility of lodgepole pine to mountain pine beetle attack. Conference proceedings: The Association of American Geographers Annual Meeting. Las Vegas, NV. March 22-27.

2008. The effects of climate and bark beetle outbreaks on forest fires in the intermountain West, USA. Conference proceedings: The Association of American Geographers Annual Meeting. Boston, MA. April 15-19.

2007. The effects of anthropogenic suppression of avalanches on the subalpine vegetation of the Swiss Alps. Conference proceedings: The Association of American Geographers Annual Meeting. San Francisco, CA. April 17-21.

2006. Fire history altered stand susceptibility to spruce beetle outbreak in the 19<sup>th</sup> century in the Grand Mesa area, western Colorado. Conference proceedings: The Association of American Geographers Annual Meeting. Chicago, IL. March 7-11.

2005. Effects of blowdown, beetle outbreak, and fire history on the behavior and effects of the 2002 fires in western Colorado. Joint Fire Science Program Principal Investigators Workshop. San Diego, CA. November 1-3.

2005. The effects of previous disturbances on the extent and severity of the 2002 fires in northwestern Colorado. Conference proceedings: The Association of American Geographers Annual Meeting. Denver, CO. April 5-9.

2004. Range of Variability of unmanaged subalpine forests. pp. 47-54 *in*: Conference proceedings: Forum für Wissen: Schutzwald und Naturgefahren. Davos, Switzerland. October 28-29.

2004. One hundred years of ecological change in the quaking aspen forests of the Grand Mesa area, Colorado. Conference proceedings: The Association of American Geographers Annual Meeting. Philadelphia, PA. March 14-19.

2003. The persistence of quaking aspen (*Populus tremuloides*) in west-central Colorado. Conference proceedings: Ecological Society of America Annual Meeting. Savannah, GA. August 3-8.

2003. Interactions between fire and spruce beetle disturbances in a western Colorado subalpine forest. Conference proceedings: The Association of American Geographers Annual Meeting. New Orleans, LA. March 4-8.

2002. Synergistic influences of fire and spruce beetle disturbances on a Colorado subalpine forest. Conference proceedings: Ecological Society of America Annual Meeting. Tucson, AZ. August 4-9.

2002. Subalpine forest development following a 1930s blowdown in northwestern Colorado. Conference proceedings: The Association of American Geographers Annual Meeting. Los Angeles, CA. March 9-23.

2001. Interactions between fire and wind disturbances in a subalpine forest in northwestern Colorado. Conference proceedings: Ecological Society of America Annual Meeting. Madison, WI. August 5-10.

2001. Influences of fire history on the effects of a catastrophic blowdown in a subalpine forest in Northwestern Colorado. Conference proceedings: The Association of American Geographers Annual Meeting. New York City, NY. February 27 – March 3.

1997. Measuring ecological sustainability. Conference proceedings: Penn State Green Design Conference. University Park, PA. December 15-21.

## OTHER PUBLICATIONS

Black, S. H., **D. Kulakowski**, B.R. Noon, and D. DellaSala. 2010. Insects and Roadless Forests: A Scientific Review of Causes, Consequences and Management Alternatives. National Center for Conservation Science & Policy, Ashland OR.

Kaufmann M.R., G.H. Aplet, M. Babler, W.L. Baker, B. Bentz, M. Harrington, B.C. Hawkes, L.S. Huckaby, M.J. Jenkins, D.M. Kashian, R.E. Keane, **D. Kulakowski**, C. McHugh, J. Negron, J. Popp, W.H. Romme, T. Schoennagel, W. Shepperd, F.W. Smith, E.K. Sutherland, D. Tinker, and T.T. Veblen. 2008. The status of our scientific understanding of lodgepole pine and mountain pine beetles – a focus on forest ecology and fire behavior. The Nature Conservancy, Arlington, VA. GFI technical report 2008-2.

Romme, W. H., J. Clement, J. Hicke, **D. Kulakowski**, L.H. MacDonald, T.L. Schoennagel, and T.T. Veblen. 2006. Recent Forest Insect Outbreaks and Fire Risk in Colorado Forests: A Brief Synthesis of Relevant Research. Colorado Forest Restoration Institute, Fort Collins, CO.

**Kulakowski, D.** and T. T. Veblen. 2004. Historical range of variability assessment for forest vegetation of the Routt and White River National Forests, Colorado. USDA Forest Service.

**Kulakowski, D.** 2004. A glimpse of a forest. Newsletter Naturgefahren. Swiss Federal Institute of Snow and Avalanche Research. Davos, Switzerland.

## GRANTS

National Science Foundation, GRFP, "Drivers and consequences of regeneration following beetle outbreak under climate change," \$136,000, Ph.D. student N. Gill, 2015-2018

National Science Foundation, "Collaborative Research: Spruce Beetle and Wildfire Interactions Under Varying Climate in the Rockies," \$347,191, Institutional PI, 2013-2016

Eidgenössische Forschungsanstalt für Wald, Schnee und Landschaft (WSL) Fellowship, 35,750 CHF, 2015-2016

National Science Foundation, GRIP, "The effects of invasive species management on plant-pollinator mutualisms and plant communities in Hawai'i Volcanoes National Park," \$5,000, PI, 2015

Cooperation and Development Center (CODEV), "Natural hazards and forest interactions in the Patagonian Andes," 24,500 CHF, Co-I, 2015

Clark University, Liberal Education and Effective Practice Project, "Field research on spruce beetle and fire interactions in Colorado high-elevation forests," \$5,000, PI, 2015

Clark University, Liberal Education and Effective Practice Project, "Field research on spruce beetle and fire interactions in Colorado high-elevation forests," \$5,000, PI, 2014

National Science Foundation, Research Experiences for Undergraduates, \$10,394, PI, 2009-2010

National Science Foundation, "Collaborative Research: Wildfire and Mountain Pine Beetle Outbreaks in Subalpine Forests: Cross-Scale Interactions Under Varying Climate," \$500,000, Institutional PI, 2008-2012

Velux Foundation, "Natural dynamics of subalpine avalanche protection forests," 273,400 CHF, Co-I, 2007-2011

Velux Foundation, "Forest structure and biodiversity in avalanche tracks: changes due to avalanche exclusion," 138,300 CHF, Co-I, 2004-2007

Joint Fire Science Program, "Effects of blowdown, beetle outbreak, and fire history on the behavior and effects of the 2002 fires in western Colorado," \$214,000, Co-PI, 2003-2007

National Science Foundation, "Climatic variation and disturbance interactions in subalpine Rocky Mountain forests," \$300,000, Senior Researcher, 2003-2007

Colorado Mountain Club Foundation Grant Award, 2001

National Science Foundation, Doctoral Dissertation Research Improvement Award, "Disturbance interactions in a Rocky Mountain subalpine forest," \$10,000, Co-PI, 2000

Beverly Sears Graduate Student Grant Award, 2000

Colorado Natural History Small Grants Award, 2000

Colorado Natural History Small Grants Award, 1999

## **COURSES TAUGHT**

### **Forest Ecology**

*Graduate School of Geography, Clark University*

A foundation of basic and applied forest ecology aimed at advanced undergraduate students. Considers the function, structure, and composition of forest ecosystems. Specific topics include forest succession, historical ecology, disturbance ecology, nutrient cycling, and the influence of climate and environmental heterogeneity on forest patterns and dynamics.

### **Earth Systems Science**

*Graduate School of Geography, Clark University*

An introduction to the structure and function of the earth system, with focus on the biosphere. Aimed at undergraduate students. Topics covered include the connections among the terrestrial surface, oceans, and atmosphere that create and sustain the climates and biomes of the world and provide the ecosystem services.

### **Forest Ecology and Management Seminar**

*Graduate School of Geography, Clark University*

This graduate-level seminar examines current themes dealing with forest ecology and management and focuses on conducting research in forest ecosystems and deriving appropriate management recommendations from that research.

### **Field Methods for Environmental Science**

*Graduate School of Geography, Clark University*

In this field-based course students learn central methods used in environmental science. Students also work with the scientific method and explore how to formulate and test hypotheses.

### **Foundations and Trends in Forest Ecology**

*Graduate School of Geography, Clark University*

This graduate-level seminar examines foundational ecological literature, as well as recent primary literature to illustrate recent trends in the field of forest ecology.

### **Reading the Forested Landscape**

*Graduate School of Geography, Clark University*

This First Year Intensive course introduces students to New England's forest ecosystems, the field of forest ecology, and the process of scientific inquiry.

### **Seminar on Contemporary Environmental Issues in Forest Ecosystems**

*Graduate School of Geography, Clark University*

This graduate-level seminar considers contemporary research themes in the field of forest ecology. The seminar examines primary literature dealing with topics such as the effects of climate change and the causes and consequences of changes in disturbance regimes.

### **Conservation Trends**

*Department of Geography, University of Colorado, Boulder*

This critical thinking seminar provides environmental studies or geography majors with an undergraduate format for interdisciplinary discussion and research into current and future directions of conservation.

### **Environmental Systems: Climate and Vegetation**

*Department of Geography, University of Colorado, Boulder*

An introduction to the principles of vegetation science, the dynamics of the earth's atmosphere, the characteristics and controls of climates, and the function of these physical features in determining the types and geographic distributions of life on earth. In addition, the course focuses on environmental impacts involving climate and vegetation that result from human-environment interactions at local and global scales.

### **Mountain Forest Research**

*Swiss Federal Institute for Snow and Avalanche Research, Davos*

Surveys current research in the field of mountain forest ecology with focus on ecosystems in the Alps. Specific topics include: tree stability and natural hazards (e.g., avalanches and rock-fall), mountain forest regeneration and management, influence of wild and domesticated animals on mountain forests, and impacts of draught stress on tree growth.

### **Graduate Teacher Certification, 2004**

*Graduate School, University of Colorado, Boulder*

Awarded the Graduate Teacher Certification by the Graduate School Graduate Teacher Program. Requirements for certification included 40 hours of workshops and teacher-training activities, videotaped consultations of my teaching, and observation and evaluation of my teaching by faculty.

## **INVITED TALKS, COLLOQUIA AND WORKSHOPS**

### **Montana State University, Bozeman, MT**

Invited guest symposium, April 27, 2017

### **Montana State University, Bozeman, MT**

Invited guest seminar, April 26, 2017

**Instytut Badawczy Leśnictwa (IBL; Forest Research Institute), Raszyn, Poland**  
Zimowa Szkoła Leśna (Winter Forest School)  
Invited lecture, March 15, 2016

**Eidgenössisches Forschungsanstalt für Wald, Schnee und Landschaft (WSL; Swiss Federal Institute for Forest, Snow and Landscape Research) Birmensdorf, Switzerland**  
Invited talk, December 8, 2015

**Clark University, Worcester, MA**  
Development of Western Geographic Thought  
Instructor: D. Martin  
Invited guest lecture, 2015

**Eidgenössisches Institut für Schnee- und Lawinenforschung (SLF; Swiss Federal Institute for Snow and Avalanche Research), Davos, Switzerland**  
Invited talk, September 22, 2015

**Aspen Ecology and Restoration Management in California Workshop, South Lake Tahoe, CA**  
Sponsors: US Forest Service, Region 5; California Fire Science Consortium  
Invited talk, October 28, 2014

**Clark University, Worcester, MA**  
Development of Western Geographic Thought  
Instructor: A. Bebbington  
Invited guest lecture, 2014

**Utah State University Extension Forestry Webinar: Fire, historical change, and resilience management in Quaking Aspen**  
Invited talk, March 18, 2014

**Restoring the West Conference: Change Agents and Managing for Forest Resilience, Utah State University, Logan, Utah**  
Invited talk, October 16-17, 2013

**Conference on Natural Disturbances –Lessons for Land Managers About Some Important Ecological Processes, Bavarian Forest National Park, Neuschönau, Germany**  
Invited talk, May 3, 2013

**Clark University, Worcester, MA**  
Why Global Warming Matters  
Instructor: C. Polsky  
Invited guest lecture, 2013

**Resilience in Quaking Aspen Symposium, De Beque, CO**

Invited talk, June 27-28, 2012

**Clark University, Worcester, MA**

Conservation and Effective Practice

Instructor: S. Foster

Invited guest lecture, 2012

**Eidgenössisches Institut für Schnee- und Lawinenforschung (SLF; Swiss Federal Institute for Snow and Avalanche Research), Davos, Switzerland**

Colloquium, February 10, 2011

**Clark University, Worcester, MA**

Development of Western Geographic Thought

Instructor: A. Bebbington

Invited guest lecture, 2010

**George Perkins Marsh Institute**

Clark University, Worcester, MA

Invited seminar, March 31, 2010

**Clark University, Worcester, MA**

Geographic Information Sciences for Development and Environment Seminar.

Instructor: G. Pontius

Invited guest lecture, 2010

**Summit on National Forests Roadless Conservation, Washington, D.C.**

Invited talk, December 1, 2009

**Sede dell'Istituto federale di ricerca per la foresta, la neve e il paesaggio (Swiss Federal Institute for Forest, Snow and Landscape Research), Bellinzona, Switzerland**

Invited talk, May 29, 2009

**Restoring the West Conference: Frontiers in Aspen Restoration, Utah State University, Logan, Utah**

Invited talk, September 16-18, 2008

**Clark University, Worcester, MA**

Geography of Fire.

Instructor: J. Rogan

Invited guest lecture, 2008

**Clark University, Worcester, MA**

Geographic Information Sciences for Development and Environment Seminar.

Instructor: G. Pontius

Invited guest lecture, 2008

**Fitchburg State College, Fitchburg, MA**

Colloquium, February 20, 2008

**Harvard University, Petersham, MA**

Colloquium, November 2, 2007

**Colorado Native Plant Society, Denver, CO**

Invited talk, April 24, 2007

**Western Mountain Initiative workshop**

A workshop on climate change and disturbance interactions in western mountains, the purpose of which was to develop both a synthesis of current knowledge and a research agenda for the immediate future. Tucson, AZ.

February 13-15, 2007

**University of Utah, Salt Lake City, UT**

Colloquium, December 4, 2006

**University of Colorado, Boulder, CO**

Colloquium, December 1, 2006

**Third International Fire Ecology and Management Congress. San Diego, CA.**

Invited talk, November 15, 2006

**University of Colorado, Boulder, CO**

Conservation Thought. Instructor: E. Pike

Invited guest lecture, 2006

**University of Colorado, Boulder, CO**

Introduction to Geographic Information Science. Instructor: B. Battenfield

Invited guest lecture, October 2, 2006

**University of Colorado, Boulder, CO**

Environmental Systems: Climate and Vegetation. Instructor: C. A. Holz

Invited guest lecture, 2006

**Society of American Foresters, Front Range Chapter, Fort Collins, CO**

Invited talk, June 13, 2006

**University of Colorado, Boulder, CO**

Seminar on Historical Range of Variability in Forest Ecosystems: Concepts, Methods and Applications. Instructor: T. Veblen  
Invited guest lecture, 2006

**Sonoma State University, Rohnert Park, CA**

Colloquium, February 15, 2006

**University of Colorado, Boulder, CO**

Forest Geography. Instructor: T. Veblen  
Invited guest lecture, 2005

**Colorado State University, Fort Collins, CO**

Insect Outbreaks and Forest Ecosystems. Instructors: J. Hicke, M. Ryan, and C. Rhoades.  
Invited guest lecture, 2005

**Instytut Badawczy Leśnictwa (IBL; Forest Research Institute), Raszyn, Poland**

Colloquium, May 23, 2005

**Eidgenössisches Institut für Schnee- und Lawinenforschung (SLF; Swiss Federal Institute for Snow and Avalanche Research), Davos, Switzerland**

Third International Winter School on Wood Anatomy of Tree Rings.  
Instructor: F. Schweingruber  
Invited guest lecture, 2004

**University of Colorado, Boulder, CO**

Seminar on Historical Range of Variability in Forest Ecosystems: Concepts, Methods and Applications. Instructor: T. Veblen  
Invited guest lecture, 2004

**Lodgepole pine forum**

A forum organized by the USDA Forest Service to assess the health of lodgepole pine forests in Colorado. Colorado Mountain College, Leadville, CO.  
May 27-28, 2004

**University of Colorado, Boulder, CO**

Mapping a Changing World. Instructor: K. Foote.  
Invited guest lecture, 2003

## NEWS AND OUTREACH

### **Christian Science Monitor; Yahoo! News**

Interviewed in article titled "As California's wildfire risks grow, are home builders getting the message?"

September 27, 2016

### **News Deeply**

Research featured in article titled "The Surprising Science of Wildfires and Tree-Killing Beetles"

September 14, 2016

### **The Cortez Journal**

Interviewed in article titled "California plans to log its drought-killed trees"

August 16, 2016

### **High Country News**

Interviewed in article titled "California plans to log its drought-killed trees"

August 8, 2016

### **Durango Herald**

Interviewed in article titled "Beetle-kill zones surprisingly rich in biodiversity"

March 3, 2016

### **Christian Science Monitor; Yahoo! News**

Interviewed in article titled "King Fire points to California's drought-driven fire future"

September 18, 2014

### **The Colorado Independent**

Interviewed in article titled "Forest health crisis ends with a whimper" July 6, 2014

### **Christian Science Monitor; Yahoo! News**

Interviewed in article titled "How prepared is California for potentially severe fire season?" May 22, 2014

### **Science Daily; e! Science News; Red Orbit**

Research featured in article titled "Massive spruce beetle outbreak in Colorado tied to drought" October 10, 2013

### **KBOO radio (Corvallis, OR; Hood River, OR; Portland, OR)**

Interviewed on segment titled "Wildfires, extreme drought and climate change"

July 29, 2013

**Christian Science Monitor; Alaska Dispatch; Miami News Day**

Interviewed in article titled "Firefighting's new reality: not every house should be saved" July 23, 2013

**Christian Science Monitor**

Interviewed in article titled "Powerhouse wildfire north of L.A. heralds a much longer fire season" June 3, 2013

**Alaska Dispatch**

Interviewed in article titled "Climate change behind LA Powerhouse fire, scientists say" June 3, 2013

**Worcester Telegram and Gazette**

Research featured in article titled "Clark tackles climate change" May 16, 2013

**Clark University Alumni Magazine**

Interviewed in and research featured in article titled "Fire and ice" Spring 2013

**Laramie Boomerang**

Interviewed in and research featured in article titled "Research: Drought trumps bark beetles as fire danger" February 8, 2013

**Summit County Voice**

Research featured in article titled "Climate, not beetle-kill, the biggest factor in wildfire equation" January 28, 2013

**The Bulletin**

Interviewed in and research featured in article titled "Beetles not to blame for West's wildfires, scientists contend" January 28, 2013

**Yakima Herald**

Interviewed in and research featured in article titled "Bark beetle isn't wildfire culprit, scientists say" January 27, 2013

**Seattle Times**

Interviewed in and research featured in article titled "Bark beetle isn't wildfire culprit, scientists say" January 26, 2013

**Miami Herald; The Sacramento Bee; Charlotte Observer; ArcaMax; Bradenton Herald; Centre Daily Times; Kentucky.com; Ledger-Enquirer; Lodi News-Sentinel; The Olympian; The Providence Journal**

Interviewed in and research featured in article titled "Scientific paper challenges assumptions about bark beetles' link to wildfires" January 26, 2013

**ArcaMax; The Bellingham Herald; The Providence Journal; Lodi News-Sentinel; McClatchy**

Interviewed in and research featured in article titled “Bark beetles not to blame for wildfires in beetle-killed forests, scientists say” January 25, 2013

**Wyoming Public Media**

Research featured in article titled “Study: Beetle kill management might intensify wildfires” January 24, 2013

**Energy and Environment Daily**

Interviewed in and research featured in article titled “Bark beetles not to blame for severe wildfires – study” January 23, 2013

**Wildfire Today**

Research featured in article titled “More research minimizes the effect beetles have on fire behavior” January 23, 2013

**The Coloradoan**

Research featured in article titled “Study: Bark beetles not a factor in High Park Fire, wildfire spread” January 23, 2013

**Christian Science Monitor**

Interviewed in article titled “Fighting Western wildfires: Does Forest Service have enough air power?” June 26, 2012

**Alaska Dispatch**

Interviewed in article titled “Wild west wildfires: Is there enough support for Forest Service firefighters?” June 26, 2012

**Neue Zürcher Zeitung**

Research featured in article titled “Die Natur hilft sich selbst: Auch nicht künstlich gepflegte Gebirgswälder schützen vor Lawinen” September 14, 2011

**Agence Télégraphique Suisse**

Research featured in article titled “Prévention des avalanches Les forêts d'altitude non entretenues protègent encore 20 ans” September 14, 2011

**Nachrichten**

Research featured in article titled “Nicht gepflegter Wald schützt besser als keener” September 14, 2011

**Radio Grischa**

Research featured in story titled “Wälder schützen vor Lawinen” September 14, 2011

**Agence Télégraphique Suisse**

Research featured in article titled "Prévention des avalanches Selon l'OFEV, la protection des forêts actuelle a fait ses preuves" September 14, 2011

**Schweizerische Depeschenagentur**

Research featured in article titled "Lawinenschutz Bund: Heutige Schutzwaldpflege hat sich bewährt" September 14, 2011

**Sonntags Zeitung, Schweizer Bauer, Blick, Schweizerische Depeschenagentur, Cash Online, Aargauer Zeitung and numerous other news outlets**

Research featured in article titled "Lawinenschutz Nicht gepflegte Gebirgswälder schützen nach 20 Jahren ebenfalls gut" September 14, 2011

**Los Angeles Times**

Interviewed in and research featured in article titled "Bark beetles may kill trees, but that may not raise fire risk" September 26, 2010

**Boulder Weekly**

Interviewed in and research featured in article titled "What now? Debate over beetle-kill pine burns as bugs move to Front Range" April 29, 2010

**The Durango Herald**

Featured in article titled "Scientist: Money to fight beetles as fire mitigation not productive" April 23, 2010

**Energy and Environment Daily**

Featured in article titled "Senators, scientist grapple over wildfire prevention" April 22, 2010

**The Coloradoan**

Research featured in article titled "CSU professor cautions against logging beetle-killed trees" March 15, 2010

**USA Today**

Interviewed in and research featured in article titled "Bark beetle debate adds fuel to the wildfire" March 5, 2010

**Seattle Post Globe**

Research featured in article titled "Logging forests after they're chewed up by bark beetles won't cut fire risks, report says" March 4, 2010

**The Huffington Post**

Research featured in article titled "Forest Fire Report: Warmer Temperatures, Drought Affect Forest Fire Risk" March 3, 2010

**The Bozeman Daily Chronicle**

Interviewed in and research featured in article titled “Report suggests logging won’t cut down on wildfires” March 3, 2010

**The Aspen Daily News**

Research featured in article titled “Logging beetle kill won’t reduce outbreaks, report says” March 3, 2010

**The Daily Sentinel**

Interviewed in and research featured in article titled “Report: climate, not beetles, main cause of forest fires” March 3, 2010

**The Colorado Independent**

Research featured in article titled “Report: Backcountry logging won’t slow beetles, ease fire danger” March 3, 2010

**KAJ 18 Montana**

Research featured in article titled “Report looks at pine beetle problem” March 2, 2010

**Laramie Boomerang**

Interviewed in article titled “Are we the next Yellowstone?” August 23, 2008

**Colorado Public Radio**

Interviewed for “Colorado Matters” April 9, 2008

**Christian Science Monitor**

Interviewed in article titled “California's age of megafires” October 24, 2007

**Congressional Forest Tour, Frisco, CO**

Invited to lead a tour of forests affected by bark beetle for Colorado State Representatives, Senators, members of the Governor’s office, and the media. Was featured in the *Denver Post*, *Rocky Mountain News*, *NBC (9 News)*, and other news outlets. August 2007

**Forest Magazine**

Interviewed for article titled “Bugged” 2007

## **SERVICE TO THE UNIVERSITY**

**University Graduate Academic Board** (elected), Co-chair, 2017-present

**Faculty search committee**, 2017-2018

**eUWTE (electronic University-Wide Teaching Evaluations) Faculty Implementation Group**, 2017

**Panelist and representative of Environment Science Program** at Traina Scholars Academic Preview Day, 2015

**University Academic Technology Committee**, 2012-2015

**Environmental Science Steering Committee**, 2011-2012

**Trustee's Committee on the Campus Environment**, 2008-2011

**Representative of Environmental Science Program** for Presidential Traina Scholars, 2008

## **SERVICE TO THE DEPARTMENT**

**Wallace W. Atwood Lecture and Colloquium Committee**, Chair, 2017-present

**Graduate School of Geography Graduate Admissions Committee**, 2014-2015, 2016-2017, 2017-2018

**Wallace W. Atwood Lecture and Colloquium Committee**, 2007-2010, 2012-2013, 2016-2017

**Edna Bailey-Sussman Fellowship Review Committee**, 2016-2017, 2017-2018

**Faculty search committee**, 2016-2017

**Graduate School of Geography Graduate Program Committee**, 2014-2015

**Faculty Promotion Committee**, 2014-2015

**Faculty Promotion and Tenure Committee**, 2013-2014

**Graduate School of Geography Representative**. Admitted Student Open House, 2013

**Albert, Norma and Howard Geller '77 Endowed Research Awards.**

Reviewed proposals, 2011, 2012, 2013

**Graduate School of Geography Curriculum and Work Load Committee, 2012**

**Graduate School of Geography Representative.** Academic Fair, 2012

**Geography and Global Environmental Studies Undergraduate Studies Committee,**  
Chair, 2011-2013

**Earth System Science concentration coordinator, 2011-2012**

**Graduate School of Geography Representative.** Majors Fair, 2011

**Graduate School of Geography Professional Development Workshop.** Invited speaker,  
2011

**Faculty Reappointment Committee, 2010-2011**

**Geography and Global Environmental Studies Undergraduate Studies Committee,**  
2009-2010

**Advising coordinator for Earth Systems Science, 2009-2010**

**Representative of Earth System Science and Geography** at Science Preview Day, 2009

**Faculty search committee, 2008-2009**

**Faculty search committee, 2007-2008**

**Departmental Review Committee, University of Colorado, Boulder, 2002**

## SERVICE TO THE DISCIPLINE

### Congressional testimony

**United States House of Representatives**, Washington, D.C. Testified before the United States House of Representatives Subcommittee on Public Lands and Environmental Regulation. April 11, 2013

**United States Senate**, Washington, D.C. Testified before the United States Senate Subcommittee on Public Lands and Forests of the Senate Committee on Energy and Natural Resources. April 21, 2010

**United States House of Representatives**, Washington, D.C. Testified before the United States House of Representatives Subcommittee on Forests and Forest Health. September 14, 2006

### Reviews

**National Science Foundation**. Reviewed proposals and served on Advisory Panel, 2008, 2009, 2010, 2016, 2017, 2018

**Joint Fire Science Program**. Reviewed proposals and served on Advisory Panel, 2006, 2015, 2017

**Narodowe Centrum Nauki (National Science Centre)**. Reviewed proposal, 2017

**Oxford University Press**. Reviewed book chapters, 2016

**Elsevier Publishing**. Reviewed book proposal, 2014

**Natural Sciences and Engineering Research Council of Canada**. Reviewed proposals, 2014

**USDA Forest Service**. Reviewed Rocky Mountain Region Lodgepole Pine Climate Change Vulnerability Assessment, 2014

**National Science Foundation**. Reviewed proposals, 2007, 2008, 2009, 2010, 2012

**USDA Hatch and McIntire-Stennis funds**. Reviewed proposals, 2012

**Association of American Geographers**. Reviewed proposals for the Biogeography Specialty Group of the student research grant competition, 2006 and 2007

**Association of American Geographers**. Judged the Biogeography Specialty Group student paper competition at the AAG Annual Meeting, 2004 and 2005

**Review manuscripts** for Animal Conservation, Annals of the Association of American Geographers, Arctic, Antarctic, and Alpine Research, Canadian Journal of Earth Sciences, Canadian Journal of Forest Research, Ecological Applications, Ecology, Ecology Letters, Ecosphere, Ecosystems, European Journal of Forest Research, Forest Ecology and Management, Forest Science, Frontiers in Ecology and the Environment, Global Change Biology, Journal of Applied Ecology, Journal of Biogeography, Journal of Vegetation Science, Landscape Ecology, Nature Climate Change, Oecologia, PLOS One, The Professional Geographer, Remote Sensing of Environment, and Scandinavian Journal of Forest Research, The Science of the Total Environment

**Other service to the discipline**

**Association of American Geographers.** Co-Organizer of two session at the Annual Meeting. 2017

**Association of American Geographers.** Co-Chair of two session at the Annual Meeting. 2017

**Polish Academy of Science.** Science and policy advisor. 2016

**Instytut Badawczy Leśnictwa (IBL; Forest Research Institute).** Raszyn, Poland. Session chair and moderator at the Winter Forest School (Zimowa Szkoła Leśna). 2016

**The Ecology of European Mountain Forest Ecosystems Conference.** Davos, Switzerland. Organizer and Chair. 2016

**Forest Ecology and Management.** Managing Guest Editor. 2016

**Faculty Promotion and Tenure.** External Reviewer (1x)

**Western Aspen Alliance.** Science Advisory Panel, Chair. 2013-present

**Association of American Geographers.** Co-Organizer of two session at the Annual Meeting. 2012

**Association of American Geographers.** Session Chair at the Annual Meeting. 2012

**United States Congress and United States Department of Agriculture,** Washington, D.C. Met with Congressional delegations and Administration officials to discuss the scientific basis for pending National Forests policies and legislation. 2010

**United States Congress,** Washington, D.C. Met with Congressional delegations to discuss the scientific basis for pending National Forests policies and legislation. 2009

**Association of American Geographers.** Co-Organizer of four sessions at the Annual Meeting. 2009

**Association of American Geographers.** Chair of two sessions at the Annual Meeting of the AAG. 2009

**Association of American Geographers.** Session Chair. The Annual Meeting of the AAG. 2008

## **AWARDS AND HONORS**

The Hodgkins Junior Faculty Fellowship Award for excellence in teaching and scholarship, Clark University, 2012

Member of Note, 2010. Association of American Geographers Newsletter. 45 (9): 19  
Exceptional Merit Award, Clark University, 2008

“Effect of prior disturbances on the extent and severity of wildfire in Colorado subalpine forests” selected as a “must read” paper and highlighted as one of the most interesting papers published in the biological sciences. Faculty of 1000 Biology. 2007.

Member of Note, 2006. Association of American Geographers Newsletter. 41 (10): 9

Best Presentation Award. Joint Fire Science Program Principal Investigators Workshop. San Diego, CA. November 1-3, 2005.

University of Colorado Graduate School University Fellowship. 2001

Mabel Duncan Memorial Scholarship. 2001

University of Colorado Graduate School University Fellowship. 2000

Mabel Duncan Memorial Scholarship. 1999

Colorado Mountain Club Neal B. Kindig Fellowship. 1999

University of Colorado Graduate School NRTD Fellowship. 1998

Gamma Theta Upsilon International Honor Society

Golden Key National Honor Society

Gamma Sigma Delta Honor Society

Dean’s List, 1992, 1994, and 1995

## **PROFESSIONAL AFFILIATIONS**

Association of American Geographers

Ecological Society of America

## **THESES ADVISED (\*CHAIR)**

Momchil Panayotov (Post-doctoral, 2009-11)

Jackie Guz (Ph.D., current) \*

Su Ye (Ph.D., current)

Yu Zhou (Ph.D., current)

Laura Sauls (Ph.D., current)

Richard MacLean (Ph.D., current)

Nathan Gill (Ph.D., 2018)\*

Nathan Mietkiewicz (Ph.D., 2016)\*

Pheakkdey Nguon (Ph.D., 2016)

Dan Jarvis (Ph.D., 2015)\*

Esteban Rossi (Ph.D., 2014)\*

Melanie Vanderhoof (Ph.D., 2014)

Bardan Ghimire (Ph.D., 2012)

Frank Krumm (Ph.D., 2011)

Cory Hertog (MS/MBA, current)

Hannah Rosenblum (MS, 2017)

Moriah Day (MS, 2016)\*

Felicia Bakaj (MA, 2015)\*

Rachel Martin (MA, 2014)

Marcus Pasay (MA, 2013)

Nathan Mietkiewicz (MA, 2012)\*

Glen Aronson (MA, 2011)\*

Phillip Hanna (MA, 2011)\*

Carolyn Matthews (MA, 2011)\*

Nick Bumbarger (MA, 2010)

Michael Lindgren (MA, 2010)

Moriah Day (BA, 2015)\*

Alexander Kappel (BA, 2013)

Joseph Danko (BA, 2013)

Angela Marshall (BA, 2011)

Brenna Schwert (BA, 2010)

Max Wright (BA, 2010)

Rachel Shmookler (BA, 2009)

Laura Merner (BA, 2008)