

## Lynn M. Resler – Biosketch

Associate Professor

Department of Geography, Virginia Tech, 220 Stanger Street, Blacksburg, VA 24061

(540) 231-5790

E-mail: resler@vt.edu

### (a) Professional Preparation

University of Minnesota – Twin Cities	Anthropology	B.A., 1997
University of Texas at Austin	Information Science (GIS focus)	M.L.I.S., 2000
Texas State University – San Marcos	Environmental Geography	Ph.D., 2004

### (b) Appointments

2010-present Associate Professor, Virginia Tech, Department of Geography

2016-2017 Interim Department Co-Chair

2004-2010 Assistant Professor, Virginia Tech, Department of Geography

### (c) Publications \*indicates student co-author

Malanson, G.P., and **Resler, L.M.** 2015 Neighborhood functions alter unbalanced facilitation on a stress gradient. *Journal of Theoretical Biology* 365: 76-83.

**Resler, L.M.**, Shao, Y., Tomback, D.F., and Malanson, G.P. 2014. Predicting functional role and occurrence of whitebark pine (*Pinus albicaulis*) at alpine treelines: Model accuracy and variable importance. *Annals of the Association of American Geographers* 104(4): 1-20.

\*Smith-McKenna, E.K., Malanson, G.P, **Resler, L.M.**, Carstensen, W., Prisley, S.P., and Tomback, D.F. 2014. Feedbacks, disease, and climate influences on treeline pattern and process: an agent-based model application. *Environmental Modelling and Software* 62: 85-96.

Tomback, D.F., \*Chipman, K.G., **Resler, L.M.**, \*Smith-McKenna, E. K. and C.M. Smith. 2014. Relative abundance and functional role of whitebark pine at treeline in the Northern Rocky Mountains. *Arctic, Antarctic, and Alpine Research* 46(2): 407-418.

\*Smith-McKenna, E.K., **Resler, L.M.**, Tomback, D.F., Zhang, H., and Malanson, G.P. 2013. Topographic influences on the distribution of white pine blister rust in *Pinus albicaulis* treeline communities. *ÉcoScience* 20 (3): 215-229.

\*Smith, E.K., **Resler, L.M.**, Vance, E. Carstensen, W., and Kolivras, K. 2010. Modeling the incidence of white pine blister rust infection in whitebark pine at alpine treeline in the Northern Rocky Mountains using GIS. *Arctic, Antarctic and Alpine Research* 43(1): 107-117.

Malanson, G.P., **Resler, L.M.**, Bader, M., Holtmeier, K.-F. Weiss, D., Butler D., Daniels, L. and D. B., Fagre. 2010. Mountain treelines: A roadmap for research orientation. *Arctic, Antarctic and Alpine Research* 43(2):167-177.

Tomback, D.F. and **Resler L. M. 2007**. Invasive pathogens at alpine treeline: complications and concerns. *Physical Geography* 28(5): 397-418.

**Resler, L.M.**, and Tomback, D.F. 2008. Blister rust prevalence in krummholz whitebark pine: Implications for treeline dynamics. *Arctic, Antarctic, and Alpine Research* 40(1): 161-170.

**Resler, L.M.**, David R. Butler, and George P. Malanson. 2005. Topographic shelter and conifer establishment and mortality in an alpine environment, Glacier National Park, Montana. *Physical Geography* 26 (2):112-125.

#### **(d) Selected Grants and Awards**

**Implications of an Invasive Forest Pathogen for Alpine Treeline Dynamics.** Resler (PI) co-investigators Diana Tomback (University of Colorado at Denver) and George Malanson (University of Iowa). \$439,006, 07/09-10/13. National Science Foundation, Geography and Spatial Sciences.

**Impact of climatic change on Alpine plant species distribution, land cover and edaphic system in the Rwenzori Mountains in Uganda** - START grant with Bob Nakileza, from the Department of Geography and the director of the Mountain Center in Kampala.(2009)

Winner of the AAG 2005 **Nystrom Competition** for best paper based on a recent dissertation

AAG Research Grant for project "**A multi-scale approach to understanding spatial and temporal dynamics of seedling establishment sites at alpine treeline.**" April 2005

#### **(e) Synergistic Activities**

**Associate Editor** for *Arctic, Antarctic and Alpine Research* (2013-present); **Editorial Boards:** *Physical Geography*, *Southeastern Geographer*, *Annals of the Association of American Geographers*

**Past President and member**, Biogeography Specialty Group of the Association of American Geographers

**Vice President and Program Coordinator**, Southeastern Division of the American

Association of Geographers

**NSF Reviewing**, 2016 Coupled Human Natural Systems; 2018 Big Data Regional Innovation Hubs: Establishing Spokes to Advance Big Data Applications

**Over 14 years of field experience including the development of and leading undergraduate student research and learning experiences**, including the following undergraduate field courses: *Hokies Abroad: Human Impacts and the Environment in Antarctica*; *Mountain Environments: Mount Baker, Washington*; *Sustainability in New Zealand*; *North American Landscapes: Atlantic Provinces*

**Conference co-organizer and guest editor**. Geomorphology and Vegetation: Interactions, Dependencies, and Feedback Loops. Binghamton International Geomorphology Symposium (2009). October 2009 at Virginia Tech, Blacksburg, VA.