

# MICHELE S. BUONANDUCI

School of Environmental and Forest Sciences  
Box 352100  
University of Washington  
Seattle, Washington 98195

Office: 340 Bloedel Hall  
Telephone: (206) 616-1879  
Email: mbuon@uw.edu

## EDUCATION

---

2020 -	<b>Ph.D.</b> , Quantitative Ecology and Resource Management, University of Washington
2017 - 2019	<b>M.S.</b> , Quantitative Ecology and Resource Management, University of Washington, Thesis: <i>Modeling individual lodgepole pine mortality from mountain pine beetle outbreak in a spatially explicit framework</i>
2008 - 2012	<b>B.A.</b> , Environmental Science, Boston University

## ACADEMIC EXPERIENCE

---

2017 -	Graduate Research Assistant, Quantitative Ecology and Resource Management & School of Environmental and Forest Sciences, University of Washington
2020	Graduate Teaching Assistant, ESRM 315 Old-Growth Forest Ecology & Management, School of Environmental and Forest Sciences, University of Washington
2019	Graduate Teaching Assistant, QSCI 381 Introduction to Probability and Statistics, Center for Quantitative Science, University of Washington
2010	Undergraduate Research Assistant, Department of Geography and Environment, College of Arts and Sciences, Boston University

## PROFESSIONAL EXPERIENCE

---

2017 - 2020	Staff Scientist <i>Part Time as Needed</i> , Arcadis U.S., Inc.
2015 - 2017	Staff Scientist, Arcadis U.S., Inc.
2013 - 2015	Scientist II, Arcadis U.S., Inc.
2012 - 2013	Scientist I, Arcadis U.S., Inc.

## PUBLICATIONS

---

**Buonanduci, M.S.**, J.E. Morris, M.C. Agne, and B.J. Harvey. In press. Neighborhood context mediates probability of host tree mortality in a severe bark beetle outbreak. *Ecosphere*.

Judd, N., Y. Lowney, P. Anderson, S. Baird, S.M. Bay, J. Breidt, **M. Buonanduci**, Z. Dong, D. Essig, M.R. Garry, R.C. Jim, G. Kirkwood, S. Moore, C. Niemi, R. O'Rourke, B. Ruffle, L.A. Schaider, D.E. Vidal-Dorsch. 2015. Fish consumption as a driver of risk-management decisions and human health-based water quality criteria. *Environmental Toxicology and Chemistry* 34(11): 2427-2436.

Dillen, S.Y., M. Op de Beeck, K. Hufkens, **M. Buonanduci**, and N.G. Phillips. 2012. Seasonal patterns of foliar reflectance in relation to photosynthetic capacity and color index in two co-occurring tree species, *Quercus rubra* and *Betula papyrifera*. *Agricultural and Forest Meteorology* 160: 60-68.

## ORAL PRESENTATIONS

---

**Buonanduci, M.S.**, J.E. Morris, M.C. Agne, and B.J. Harvey. 2019. Individual tree and local tree neighborhood factors affecting mountain pine beetle-induced lodgepole pine mortality. Presented at the 2019 Meeting of the U.S. Regional Association of the International Association for Landscape Ecology, Fort Collins, CO, April 7-11.

**Buonanduci, M.S.**, J.E. Morris, M.C. Agne, and B.J. Harvey. 2019. Within-stand factors affecting survival of lodgepole pine following a severe mountain pine beetle outbreak. Presented at the Sixteenth Annual University of Washington School of Environmental and Forest Sciences Graduate Student Symposium, Seattle, WA, March 1.

## POSTER PRESENTATIONS

---

**Buonanduci, M.**, P. Anderson, and V. Houck. 2016. Probabilistic human health water quality criteria calculator. Presented at the Thirty-seventh Annual Meeting of the Society of Environmental Toxicology and Chemistry, Orlando, FL, November 6-10.

Francisco, A., **M. Buonanduci**, J. Gravenmier, J. Iannuzzi, T. Negley and S. Selden. 2015. Moving beyond risk quotients: Comparing dose-response effects to reproductive natural variability. Presented at the Thirty-sixth Annual Meeting of the Society of Environmental Toxicology and Chemistry, Salt Lake City, UT, November 1-5.

**Buonanduci, M.** and P.D. Anderson. 2014. Effect of probabilistic methods on human health ambient water quality criteria. Presented at the Annual Meeting of the Society for Risk Analysis, Denver, CO, December 7-11.

**Buonanduci, M.** and N. Phillips. 2010. The effect of urbanization on vegetation function. Presented at the Thirteenth Annual Boston University Undergraduate Research Symposium, Boston, MA, October 22.

## HONORS & AWARDS

---

<i>2019</i>	Honorable Mention for Best Student Presentation, Annual Meeting of the U.S. Regional Association of the International Association for Landscape Ecology
<i>2019</i>	Honorable Mention, National Science Foundation Graduate Fellowship
<i>2019</i>	College of the Environment Student Travel Award, University of Washington
<i>2019</i>	Quantitative Ecology and Resource Management Student Travel Award, University of Washington
<i>2012-</i>	Phi Beta Kappa
<i>2012</i>	College Prize for Excellence in Geography & Environment, Boston University
<i>2009</i>	Prize Essay Winner, Journal of the College of Arts and Sciences Writing Program, Boston University
<i>2008-09</i>	College of Arts and Sciences College Scholar, Boston University

## VOLUNTEER ACTIVITIES

---

<i>2018-</i>	Graduate Student Representative, School of Environmental and Forest Sciences Research Committee
<i>2018-</i>	Co-organizer, School of Environmental and Forest Sciences Graduate Student Symposium