

Carl J. Wepking

Colorado State University - School of Global Environmental Sustainability

EDUCATION

Doctor of Philosophy, Biological Sciences, 2018
Virginia Tech, Blacksburg, VA
Advisor: Michael Strickland, Ph.D.

Master of Science, Environmental Science, 2012
Washington State University, Vancouver, WA

Bachelor of Science, Environmental Science, 2008
Saint Norbert College, De Pere, WI
Advisor: Anindo Choudhury
Minor: Biology

Study Abroad, 2007
School for International Training, Fort Dauphin, Madagascar
Biodiversity and Natural Resource Management

POSITIONS HELD

Colorado State University Executive Director of the Global Soil Biodiversity Initiative
Post-Doctoral Fellow
Soil Biodiversity and Ecosystem Functioning Lab, Dr. Diana Wall
2018 – Present

Virginia Tech Graduate Research Assistant
2015-2018, Blacksburg, VA
Soil Ecology Lab, Dr. Michael Strickland

Virginia Tech Research Assistant
September 2013-December 2014, Blacksburg, VA
Nematode Assay Lab, Dr. Jon Eisenback

PG Environmental Field Technician
May 2013-September 2013, Herndon, VA
EPA 2013-2014 National Rivers and Streams Assessment

Washington State University Graduate Research Assistant
September 2009-December 2012, Vancouver, WA
Aquatic Ecology Lab, Dr. Stephen Bollens

Dauphin Island Sea Lab Lab Technician
September 2008-July 2009, Dauphin Island, AL
Fisheries Oceanography of Coastal Alabama, Dr. Frank Hernandez

Dauphin Island Sea Lab Summer Intern
May 2008-August 2008, Dauphin Island, AL
Marine Ecology Lab, Dr. Kenneth L. Heck

PUBLICATIONS

Wepking, Carl, Virginia Boulos, Michael S. Strickland. *Exposure to antibiotics alters thermal acclimation of soil microbial communities*. Manuscript in prep.

Wepking, Carl, Brian Badgley, John E. Barrett, Kevan Minick, Katharine F. Knowlton, Jane Lucas, Michael S. Strickland. *Antibiotics administered to cattle affect ecosystem processes via manure inputs*. Manuscript in prep.

Wepking, Carl, Bethany Avera, Brian Badgley, John E. Barrett, Josh Franklin, Katharine F. Knowlton, Partha P. Ray, Crystal Smitherman, Michael S. Strickland. *Increased antibiotic resistance – Effects on microbial communities and ecosystem function*. 2017. Proceedings of the Royal Society-B. 284. DOI: 10.1098/rspb.2016.2233.

PRESENTATIONS

Virginia Tech Interfaces of Global Change Research Symposium, 2018. Oral Presentation: Livestock antibiotics alter soil microbial communities and ecosystem function. **Wepking, Carl**, Brian Badgley, John E. Barrett, Matthew Hedin, Katharine Knowlton, Kevan Minick, Partha Ray, Michael Strickland.

Virginia Tech Department of Biological Sciences Research Day, 2018. Oral Presentation: Livestock antibiotics alter soil microbial communities and ecosystem function. **Wepking, Carl**, Brian Badgley, John E. Barrett, Matthew Hedin, Katharine Knowlton, Kevan Minick, Partha Ray, Michael Strickland.

Soil Ecology Society, 2017. Poster Presentation: Ecological effects of livestock antibiotics on agricultural soils. **Wepking, Carl**, Brian Badgley, John E. Barrett, Matt Hedin, Katharine F. Knowlton, Kevan Minick, Partha P. Ray, Michael S. Strickland.

Virginia Tech Interfaces of Global Change Research Symposium, 2017. Poster Presentation: Ecological effects of livestock antibiotics on agricultural soils. **Wepking, Carl**, Brian Badgley, John E. Barrett, Matt Hedin, Katharine F. Knowlton, Kevan Minick, Partha P. Ray, Michael S. Strickland.

Virginia Tech Interfaces of Global Change Research Symposium, 2016. Oral Presentation: Increased antibiotic resistance – effects on microbial communities and ecosystem function. **Wepking, Carl**, Bethany Avera, Brian Badgley, John E. Barrett, Josh Franklin, Katharine F. Knowlton, Partha P. Ray, Crystal Smitherman, Michael S. Strickland.

Virginia Tech Department of Biological Sciences Research Day, 2016. Oral Presentation: Increased antibiotic resistance – effects on microbial communities and ecosystem function. **Wepking, Carl**, Brian Badgley, John E. Barrett, Katharine Knowlton, Michael Strickland.

Ecological Society of America, 2015. Contributed Talk: *Antibiotic exposure in agroecosystems: Evidence for altered microbial community structure and ecosystem*

function. **Wepking, Carl**, Brian Badgley, John E. Barrett, Katharine Knowlton, Michael Strickland.

Washington State University Research Showcase, 2012. Poster Presentation:
Ichthyoplankton dynamics in a northeast Pacific estuary (Willapa Bay WA, USA) in relation to prey availability and environmental variables. **Wepking, Carl**, Steve Bollens, Gretchen Rollwagen-Bollens. Vancouver, WA.

Coastal and Estuarine Research Federation Conference, 2011. Poster Presentation:
Prey availability and environmental variables as controls for ichthyoplankton dynamics in a Pacific Northwest estuary, Willapa Bay WA, USA. **Wepking, Carl**, Steve Bollens, Gretchen Rollwagen-Bollens. Daytona, FL

TEACHING

Ecology (BIOL 2804) 28 February, 2017
Guest Lecturer
Virginia Polytechnic Institute and State University, Department of Biological Sciences

Plant Taxonomy (BIOL 3204) 20 February, 2017
Guest Lecturer
Virginia Polytechnic Institute and State University, Department of Biological Sciences

Plant Taxonomy (BIOL 3204) Spring 2016, Spring 2017
Graduate Teaching Assistant
Virginia Polytechnic Institute and State University, Department of Biological Sciences

Ecology (BIOL 2804) 27 September, 2016
Guest Lecturer
Virginia Polytechnic Institute and State University, Department of Biological Sciences

Environmental Science (ESRP 101) Fall 2012, Spring 2011
Graduate Teaching Assistant
Washington State University, School of Earth and Environmental Science

Upper Biology (BIOL 107) Spring 2012
Graduate Teaching Assistant
Washington State University, School of Earth and Environmental Science

Lower Biology (BIOL 102) Fall 2011
Graduate Teaching Assistant
Washington State University, School of Earth and Environmental Science

Oceanography (GEOL 230) Fall 2009
Graduate Teaching Assistant
Washington State University, School of Earth and Environmental Science

Ecology (BIOL 228) Fall 2007
Undergraduate Teaching Assistant
St. Norbert College, Biology Department

PROFESSIONAL DEVELOPMENT

- 2017 Communicating Your Science and Telling the Climate Change Story: A Workshop with Susan Joy Hassol
- 2015 Alan Alda Center Science Communication Workshop
- 2011 Proposals: Deep Strategy and Tactics Workshop – Washington State University

AWARDS AND HONORS

- 2018 Third Place-Virginia Tech Biological Science Research Day Breakout Talks (\$100)
- 2017 Roundtable “Make a Difference” Scholarship, Virginia Tech College of Science (\$10,000)
- 2017 Virginia Tech Graduate Student Association Travel Fund (\$180)
- 2017 Interfaces of Global Change Fellowship (\$40,000)
- 2016 Karen DePauw Outstanding Interdisciplinary Presentation Award (\$200)
- 2016 Roundtable “Make a Difference” Scholarship, Runner-up, Virginia Tech College of Science
- 2016-2017 Virginia Tech BGSA Treasurer
- 2015 Virginia Tech Global Change Center Interdisciplinary Research Award (\$3,285)
- 2015-Present Interfaces of Global Change, Fellow, Virginia Tech
- 2006, 2007 Deans List, St. Norbert College

PROFESSIONAL SERVICE

Manuscript reviewer for Scientific Reports.

SOCIETY MEMBERSHIPS

Ecological Society of America
Soil Ecology Society