

**Carl J. Wepking**

Colorado State University - School of Global Environmental Sustainability

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**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