

WILLIAM LANDESMAN
wlandesman@umces.edu
(301) 689-7203

University of Maryland, Center for
Environmental Science
332 Braddock Road
Frostburg, MD 21532

CURRENT POSITION

2009 – present **Postdoctoral Fellow**, University of Maryland Center for
Environmental Science, Appalachian Laboratory, Frostburg, MD.

EDUCATION

- 2009 Rutgers University Graduate program in Ecology and Evolution, New
Brunswick, NJ. Advisor: John Dighton; PhD.
- 1995 Muhlenberg College, Allentown, PA; B.S.: Biology; Minor: Philosophy.
- 1994 School for Field Studies, Center for Rainforest Studies, Far North
Queensland, Australia.

TEACHING EXPERIENCE

2007 – 2009 **National Science Foundation GK-12 Fellow**, Rutgers University.
Collaborated with elementary school teachers to enhance middle school
science education. Developed and taught hands-on laboratory activities for
8th grade physical science and math and 6th grade general science classes.
Participated in bi-monthly workshops with teachers to create lesson plans
and discuss teaching philosophies. Participated in the annual National
Science Foundation GK-12 meeting in Washington, DC.

2002 – 2007 **Teaching Assistant**, Rutgers University, Department of Life Sciences.

Fall 2002 to spring 2003 - General Biology Laboratory: Taught students to
use laboratory equipment and led hands-on laboratory activities. Delivered
weekly presentations and graded weekly assignments and a final research
report. Participated in teacher training seminars.

Fall 2003 to spring 2004 - Genetics (non-majors): Wrote challenge
problems and led reviews sessions on a weekly basis. Worked with
students in groups and individually to answer the practice problems and re-
enforce lecture material. Wrote and graded weekly quizzes. In addition to
two semester-long courses, served at the Genetics teaching assistant for
two summer courses (2004 and 2005).

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Fall 2004 to spring 2006 - Genetic Analysis I & II (Genetics majors): Used a combination of lectures and group work to train students to apply information from the lectures to answer challenge problems. Led weekly current events presentations and graded weekly assignments.

Fall 2007 to spring 2007 - Genetics Laboratory: Led weekly computer-based laboratory lessons. Graded weekly assignments and a final laboratory report.

PUBLICATIONS

Landesman, W.J. and J. Dighton. 2011. Shifts in microbial biomass and the bacteria:fungi ratio occur under field conditions within three hours after rainfall. In press at *Microbial Ecology*.

Landesman, W.J., A. Treonis and J. Dighton. 2010. Effects of a one-year rainfall manipulation on soil nematode abundances and community composition. In press at *Pedobiologia*.

Landesman, W. J. and J. Dighton. 2010. Response of soil microbial communities and the production of plant-available nitrogen to a two-year rainfall manipulation in the New Jersey Pinelands. *Soil Biology and Biochemistry* 42: 1751-1758.

Allan, B.F., R.B. Langerhans, W.A. Ryberg, **W.J. Landesman**, N.W. Griffin, R.S. Katz, B.J. Oberle, M.R. Schutzenhofer, K.N. Smyth, A. de St. Maurice, L. Clark, K.R. Crooks, D.E. Hernandez, R.G. McLean, R.S. Ostfeld and J.M. Chase. 2009. Ecological correlates of risk and incidence of West Nile virus in the United States. *Oecologia* 158: 699–708.

Landesman, W.J., B.F. Allan, R.B. Langerhans, T.M. Knight and J.M. Chase. 2007. Inter-annual associations between precipitation and human incidence of West Nile Virus in the United States. *Vector-Borne and Zoonotic Diseases* 7(3): 337-343.

PUBLICATIONS IN PREP (available upon request)

Landesman, W.J. and J. Dighton. Effects of elevated winter precipitation on soil microbial communities and nitrogen cycling in the New Jersey Pinelands. In prep. for *Plant and Soil*.

ORAL PRESENTATIONS

2010 **Landesman, W.J.** and J. Dighton. Effect of changing precipitation patterns on the soil nitrogen cycle in the New Jersey Pinelands. 95th Annual Meeting of the Ecological Society of America, Pittsburgh, PA.

- 2008 **Landesman, W.J.** The effect of climate change and precipitation on soil microbial community structure, nitrogen mineralization, and amino acid production in the New Jersey Pinelands. The Ecological Society of America 93rd Annual Meeting, Milwaukee, WI.
- 2008 **Landesman, W.J.** and J. Dighton. Response of soil microbial communities to manipulations of soil moisture and dry-wet cycles in two New Jersey forests. Rutgers-Princeton-University of Pennsylvania Graduate Research symposium. Princeton, NJ.
- 2007 **Landesman, W.J.** and J. Dighton. Response of soil microbial communities to manipulations of soil moisture and dry-wet cycles in two New Jersey forests. 11th Biennial Soil Ecology Society Meeting, Moab, Utah.
- 2007 Allan, B.F., **W.J. Landesman**, R.B. Langerhans, W.A. Ryberg, R.S. Ostfeld and J.M. Chase. A protective role for avian diversity in the United States West Nile Virus outbreak? Integrating Environment and Human Health: The 7th National Conference on Science, Policy and the Environment. Washington D.C. (Invited Symposium Presentation)
- 2005 **Landesman, W.J.**, B.F. Allan, R.B. Langerhans, T.M. Knight and J.M. Chase. Inter-annual associations between precipitation and human incidence of West Nile Virus in the United States. Annual Meeting of the Ecological Society of America, Montreal, QC.
- 2005 **Landesman, W.J.**, B.F. Allan, R.B. Langerhans, T.M. Knight and J.M. Chase. Inter-annual associations between precipitation and human incidence of West Nile Virus in the United States. Disease Ecology Symposium, Princeton University, Princeton, NJ.

POSTER PRESENTATIONS

- 2010 **Landesman, W.J.** and D. Nelson. Metagenomic study of soil microbial communities at multiple spatial scales in the northeastern and mid-western United States: Project design and preliminary results. 2nd Annual Argonne Soils Workshop, Argonne, IL. October 6-8, 2010.
- 2010 **Landesman, W.J.** and D. Nelson. Forensic Analysis of Soil Microbial Communities. Tenth Annual IC Postdoctoral Research Fellowship Colloquium. April 26-29, 2010.
- 2008 **Landesman, W.J.** and J. Dighton. The influence of climate change and precipitation on soil microbial community structure and nitrogen cycling in the New Jersey Pinelands: Project overview and preliminary results.

William Landesman

Second Annual Mini-Symposium on Microbiology, Rutgers University,
New Brunswick, NJ. February 7-8, 2008.

AWARDS AND ACTIVITIES

- 2010 Travel award for the 2nd Annual Argonne Soils Workshop in Argonne, IL
- 2009 **Co-Organizer and Moderator, Ecological Society of America 2009 Symposium** “How can soil microbial ecology contribute to the sustainability of agricultural systems?”
- 2007 Selected to **AAAS/Science Program for Excellence in Science**
- Rutgers University **Ralph Goode Award**
- Rutgers Ecology and Evolution **Academic Excellence Fund Award**
- Travel Grant**, Rutgers University Graduate School of Arts and Sciences
- 2006 **Summer Research Grant**, Hutcheson Memorial Forest, Rutgers University
- 2005 **Travel Grant**, Rutgers University Graduate School of Arts and Sciences
- 2003 – 2006 **Symposium Chair**, Rutgers Ecology & Evolution Graduate Student Association. 2003-2006

MENTORING EXPERIENCE

- 2010 Graduate Mentor, Master of Chemical and Life Sciences, University of Maryland; Betsy Evans.

MANUSCRIPT REVIEWER

- Journal of Plant Nutrition and Soil Science
- Public Health Reports
- Vector-Borne and Zoonotic Diseases

PROFESSIONAL ASSOCIATIONS

- Ecological Society of America
- Soil Ecology Society