

CURRICULUM VITAE

Ryan W. Jackwood, M.S.

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EDUCATION

Doctor of Philosophy (*in progress*) - Biology, specialization in Bioremediation and Water Quality,
University of Toledo, Toledo, OH

Master of Science (2013) - Biology, specialization in Ecology, University of Toledo, Toledo, OH

Bachelor of Science (2011) - Biology, honors in research distinction, The Ohio State University,
Columbus, OH

Areas of Specialization

Environmental microbiology, viral genetics, bioremediation, environmental engineering, water quality treatments and analyses, teaching basic biology

Professional Experience

2005 - 2009. Seasonal Research Internship, Department of Horticulture and Crop Sciences, The Ohio State University

2010 - 2011. Undergraduate Research Assistant, Veterinary Biosciences Department, The Ohio State University

2011 - 2013. Graduate Teaching Assistant, Department of Environmental Sciences, University of Toledo

2013 - 2014. Graduate Assistant at the Stranahan Arboretum, Department of Environmental Sciences, University of Toledo

2014 - Present. Graduate Research Assistant, Department of Environmental Sciences, University of Toledo

Professional and Honorary Organizations

Sigma Alpha Lambda - National Leadership and Honors Organization

Ohio Academy of Science

Environmental Graduate Students (EGS) - Toledo Graduate Student Government, Vice-President

Professional Certification

SCUBA certified (PADI), Biosafety Level 2 (The Ohio State University and University of Toledo), IACUC certified in animal care and use during research

Scientific Publications

* indicates undergraduate honors thesis

** indicates M.S. thesis

*Jackwood, Ryan and Steven Krakowka (*advisor*). *Characterization of Torque Teno Virus by In Vitro Infection of Gnotobiotic Pigs: Torque Teno Virus the Cause of PAS?* Honors Research Theses from the College of Arts and Sciences. The Ohio State University (2011)

Sneller, C., Guttieri, M., Paul, P., Costa, J., & Jackwood, R. *Variation for resistance to kernel infection and toxin accumulation in winter wheat infected with Fusarium graminearum*. *Phytopathology*, 102(3), 306-314 (2012)

**Jackwood, Ryan and Daryl Dwyer (*advisor*), *Predicting Fate and Transport of Fecal Bacteria through Soils Using an Advection-Dispersion Model*. ProQuest Dissertation Publishing (2013)

Scientific Presentations and Posters

2013 *Predicting Fate and Transport of Fecal Bacteria through Soils Using an Advection-Dispersion Model (presentation)*. M.S. Thesis Defense, University of Toledo, Toledo, OH.

2013 *Role of Retention Time and Soil Depth on Transport and Survival of Escherichia coli (presentation)*. National Nonpoint Source Monitoring Conference and Workshops. Wyndham Cleveland at Playhouse Square, Cleveland, OH.

2013 *Predicting the Roles of Soil Depth and Type on Transport of Escherichia coli and Enterococcus spp. Using an Advection Dispersion Model (poster)*. Ohio Academy of Science. University of Findlay, Findlay, OH.

2013 *Predicting the Roles of Soil Depth and Type on Transport of Escherichia coli and Enterococcus spp. Using an Advection Dispersion Model (poster)*. Midwest Graduate Research Symposium. University of Toledo, Toledo, OH.

2013 *Restoring Wetlands at Maumee Bay State Park Clean Water, Safe Beaches (poster)*. Earth Fest. University of Toledo, Toledo OH.

2012 *Predicting the Applicability of Microbial Filtration through Wetland Soil Using an Advection Dispersion Transport Model (presentation)*. M.S. Thesis Proposal, University of Toledo, Toledo, OH.

2011 *Characterization of Torque Teno Virus by In Vitro Infection of Gnotobiotic Pigs: Torque Teno Virus the Cause of PAS? (presentation)*. Undergraduate Thesis Defense, The Ohio State University, Columbus, OH.

2008 *Sources of variation for DON concentration in moderately resistant Soft Red Winter Wheat (presentation)*. Undergraduate Internship, Ohio Agriculture Research and Development Center, Wooster, OH.

Teaching

University of Toledo – Teaching Assistant

High School Level

Biology, Central Catholic High School (2013) - Guest Teacher

IB Biology Class, Notre Dame Academy. Stranahan Arboretum – Guest Lecturer/Field Trip leader

Freshman/Sophomore Level

Biodiversity, EEES - 2150 (2012 - 2013) - Honors and Normal Sections

Environmental Problems Lab, EEES - 1140 (2011 - 2013)

Junior/Senior Level

Soil Ecology Lab, EEES 4260 (2013)

Environmental Microbiology, EEES 5510 (2013) - Guest Lecturer

Seminars and Workshops

Fall/Winter Maumee AOC Summit. Partners for Clean Streams. Buehner Center at Oak Openings Preserve, Toledo, OH (Dec. 2013)

National Nonpoint Source Monitoring Conference and Workshops. Tetra Tech, Playhouse Square Cleveland, OH (Oct. 2013)

Restoration of Streams and Riparian Areas Workshop. Partners for Clean Streams and Army Corp of Engineers, University of Toledo (Aug. 2013)

Community Outreach

Volunteer, Boy Scout Group, Doug Reinhart hosted a Camp Fire group, Stranahan Arboretum (2013)

Volunteer, Building Ohio's Sustainable Energy Future (BOSEF) Welcome Meeting. Lake Erie Center (2013)

Volunteer, Judge at District Science Day. Ohio Academy of Science. University of Toledo, Toledo, OH (2012)