**Contact**

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**Education**

Ph.D. 2015 University of Minnesota; Biosystems Engineering; Advisor: Dr. Jonathan Schilling

M.S. 2008 University of Maine; Ecology & Environmental Science; Advisor: Dr. Jody Jellison

B.S. 2006 SUNY-College of Environmental Science & Forestry; Environmental & Forest Biology; Advisor: Dr. Thomas Horton

**Research & Employment Experiences** *(see webpage for more details)*

2016-Current Postdoc, Dept. Animal Science, Cornell Univ., Ithaca, NY, PI: Curt Gooch

2015 - 2016 Service Technician, Dept. Biol. & Env. Engineering, Cornell Univ., Ithaca, NY, PI: Curt Gooch

2015-Current Principle Investigator, SPRUCE | Spruce & Peatland Responses Under Climatic & Env. Change, CoPI: Dr. Randy Kolka, USFS & Dr. Jonathan Schilling, UMN

2010 - 2015 Research Assistant, Univ. Minnesota, St. Paul, MN, PI: Dr. Jonathan Schilling,

2009 - 2010 Env. Microbiologist, Bluepoint Environmental, Syracuse, NY, Supervisor: Richard Dickinson

2008 - 2009 Farm Hand, Clovercrest Dairy, Charleston, ME, Owner: Steve Morrison

2007 - 2008 Farm Hand, Peacemeal Vegetable Farm, Owners: Mark Guzzi/Marcia Ferry

2006 - 2008 Research Assistant, Univ. Maine, Orono, ME, PI: Dr. Jody Jellison

2003 - 2006 Lab Assistant, SUNY-Environmental Science & Forestry, Syracuse, NY

**Teaching/Outreach Experience** *(See webpage for more details)*

2015 - 2017 PRO-DAIRY Outreach/Extension

* Extension professionals training, fact sheets, case studies, on-farm support, lectures

Fall 2016 Tennessee Tech., Virtual Guest Lecturer

Fall 2014 Augsburg College Career Panel, Minneapolis, MN

2013 - 2015 UMN, College of Food, Agriculture, and Natural Resource Sciences, St. Paul, MN

* Hope for Tomorrow, Murray Jr. High, Spring 2015
* Middle & High School Teachers Summer Course, Summer 2013, 2014

2013 - 2015 Bell Museum of Natural History, Minneapolis, MN

* Volunteer educator

2012 - 2015 Vice President, UMN Mycology Club and Fungal Garden

* Public lectures, trainings, workshops

2011 - 2015 Teaching Assistant, University of Minnesota

Fall 2009 K-12 Substitute Teacher, Union Springs Central School District, Union Springs, NY

2006 - 2008 Guest Lecturer, University of Maine

**Related Professional Experiences**

May 2017 Antimicrobial resistance: Research synergies in human & animal medicine, Ithaca, NY

July 2015 Dairy Systems, Climate adaptation conference, Ithaca, NY

Aug. 2014 USDA-AFRI, Biofilter stakeholder conference, Iowa State University, Ames, IA

**Current Memberships/Associations**

Since 2013 American Ecological Engineering Society (AEES)

Since 2011 American Society of Agricultural & Biological Engineers (ASABE)

Since 2005 Mycological Society of America (MSA)

**Grants, Honors & Awards** (*See webpage for full list*)

Aug. 2017 NYSERDA Anaerobic Digestion Assistance Initiative # 59850, Task 8.1, Enhancing Operation of H2S Biotrickling Filters, $35,000

Jan. 2015 Graduate Research Scholarship, Minnesota Mycological Society, $500

Aug. 2014 Travel Scholarship, Bergsrud, UMN, BBE, $875

June 2014 Best Student Presentation, Mycological Society of America, East Lansing, MI

Jan. 2014 Travel Grant, American Ecological Engineering Society, $875

March 2013 Student Services Fees Event Grant, University of Minnesota - UMN Fungal Garden

Workshop Series: Learn to Grow Your Own Gourmet Mushrooms, $1,000

Aug. 2013 Educational Activities in Microbial Ecology Award, Ecological Society of America

Aug. 2012 USDA-NIFA. Schilling J, Janni K, Jacobson L, Oliver J. Seed Grant - Microbial Analyses to Better Target Methane Biofiltration in Livestock Systems, $150,000

Oct. 2007 Competitive Internal Hatch Act Funding, Maine Agricultural and Forestry Experiment Station Research Council. Jellison J, Howell C, Oliver J. Bioconversion Capabilities of Wood Decay Fungi, $100,000

**Technical Presentations** *(Showing only recent, see webpage for full listing)*

Aug. 2017 Lansing S, Oliver J, Schueler J, Gooch C, Felton G, Raskin L, Wigginton K, Crossette E, Langenfeld K, Sassoubre L, Hurst J, Aga D. The effect of manure collection and inherent variability on antibiotic testing of dairy manure systems. 4th International Symposium on the Environmental Dimension of Antibiotic Resistance

Lansing, MI. Aug. 13–17 2017

Aug. 2017 Sassoubre L, Alcazaren K, Hurst J, Oliver J, Aga D, Davis B. Investigating the effect of lime treatment on bacteria and antimicrobial resistance genes in dairy manure solids. 4th International Symposium on the Environmental Dimension of Antibiotic Resistance, Lansing, MI. Aug. 13–17 2017

Aug. 2017 Hurst J, Oliver J, Schueler J, Lansing S, Gooch C, Sassoubre L, Aga D. Assessing dairy manure management strategies for removal of antimicrobials. 4th International Symposium on the Environmental Dimension of Antibiotic Resistance, Lansing, MI. Aug. 13–17 2017

July 2017 Oliver JP, Schueler J, Hurst J, Crossette E, Langenfeld K, Gooch C, Lansing S, Felton G, Wigginton K, Raskin L, Sassoubre L, Aga D. Antibiotics & antibiotic resistant bacteria and genes in northeastern dairy manure management systems – Project overview and preliminary findings from an 11 farm case study. Annual ASABE International Meeting. Spokane, WA. July 16-19, 2017

July 2017 Oliver JP, Wright P, Gooch C. Estimating the economic value of the GHG emission reductions associated with on-farm dairy manure AD systems in NYS. Annual ASABE International Meeting. Spokane, WA. July 16-19, 2017

April 2017 Oliver JP, Gooch CA. Effectiveness of dairy manure management practices at controlling antimicrobial resistance. Waste-to-Worth Annual Conference. Cary, NC. Apr. 18-21, 2017

April 2017 Oliver JP, Gooch CA. Effectiveness of dairy manure management practices at controlling antimicrobial resistance. Biocycle East Coast. Baltimore, MD. Apr. 4-7, 2017

March 2017 Oliver JP Gooch CA. Antibiotic resistance and dairy manure systems. Dairy Center of Excellence, Cornell, Ithaca, NY. Mar. 20, 2017 \*Invited

Nov. 2016 Oliver JP et al. Antimicrobial resistance from dairy farms: Evaluating the potential of manure management practices to control its spread. Agriculture, Food & Environmental Systems In-Service Meeting, Ithaca, NY. Nov 1-3, 2016

**Peer-Reviewed Publications** (*See webpage for list of meeting & popular press publications*)

In prep. Oliver JP, Schilling JS. Working title: Fungi in agricultural biofilters. \**Solicited mini-review for Applied Microbiology & Biotechnology*

In review Oliver JP, Schilling JS. Origin and development of fungal communities in an engineered biofilter. International Biodeterioration & Biodegradation.

2017 Oliver JP. Odor is more than a nuisance - Affordable biofilters can keep your farmyard odor in check. Small Farms Quarterly. Winter 2017 edition. [smallfarms.cornell.edu/2017/01/09/odor-is-more/](http://smallfarms.cornell.edu/2017/01/09/odor-is-more/)

2016 Oliver JP, Schilling JS. Capture of methane by fungi – Evidence from laboratory-scale biofilter and chromatographic isotherm studies. Trans ASABE 59(6) S*pecial issue on climate change.*

2016 Oliver JP, Janni KA, Schilling JS. 2016. Bait and scrape: An approach for assessing biofilm microbial communities on organic media used for gas-phase biofiltration. Ecological Engineering 91:50-57

2015 Oliver JP, Schilling JS. Applying trait-function relationships for microbial plant decomposition to predict media longevity in engineered bioreactors. Applied Microbiology and Biotechnology 100(6): 2843-2853.

2015 Oliver, J.P. Book Review: Mushrooms of the Midwest, Michael Kuo and Andrew S. Methven. In: A Prairie Naturalist, South Dakota State University.

2014 Janni, K.A., L. Jacobsen, B. Hetchler, J.P. Oliver, L. Johnston. Semi-continuous air sampling versus 24-hour bag samples to evaluate biofilters on a swine nursery in warm weather. Transactions of the ASABE. 57(5): 1501-1515

2010 Oliver, J., J. Perkins & J. Jellison. Effect of fungal pretreatment of wood on successional decay by several inky cap mushroom species. International Biodeterioration & Biodegradation 64:646-651