

CURRICULUM VITAE

Joanna Weremijewicz, Ph.D.

jweremi@gmail.com

JWeremijewicz@noctrl.edu

<http://joannaweremijewicz.weebly.com/>

Education

2016 – University of Miami, Ph.D. Biology, “*Plant Interactions Across Common Mycorrhizal Networks*”

2012 – Fungi and Fungal-like Organisms field course, Organization for Tropical Studies, Costa Rica

2009 – Loyola University of Chicago, B.Sc. Biology with ecology emphasis, Cum Laude Honors

Professional Experience

2017 – Current – Assistant Professor of Biology, North Central College, Naperville, IL

2016 – Postdoctoral Associate, Howard Hughes Medical Institute Undergraduate Science Education Program, University of Miami

2016 – Research Assistant, Howard Hughes Medical Institute Undergraduate Science Education Program, University of Miami

2015 – Teaching Assistant, Howard Hughes Medical Institute Integrated Laboratory, Department of Biology, University of Miami

2014-2015 – Program Assistant, Fairchild Challenge, Fairchild Tropical Botanic Garden

2014 – Teaching Assistant, Evolution and Biodiversity Laboratory, Department of Biology, University of Miami

2014, 2013 – Research Assistant, Janos Lab, University of Miami

2013 – Teaching Assistant, General Biology Laboratory, Department of Biology, University of Miami

2012-2013 – Resident Scientist, National Science Foundation GK-12 Science Made Sensible Fellowship, Carol City Middle

2011- 2012 – Fellowship Resident Scientist, National Science Foundation GK-12 Science Made Sensible, Richmond Heights Middle

2010-2011 – Teaching Assistant, Ecology Laboratory, Department of Biology, University of Miami

Grants and Funding

2019 - North Central College Faculty Development and Recognition Committee Summer Funding (\$7,220)

2018 – North Central College Faculty Development and Recognition Committee Summer Funding (\$9,490)

2017 – National Science Foundation Postdoctoral Fellowship in Biology (\$168,000)

- 2014-2016 – National Science Foundation Doctoral Dissertation Improvement Grant (\$19,181)
- 2015 – J. Gerry Curtis Plant Sciences Award, University of Miami (\$1,250)
- 2013 – Dean’s Summer Research Fellowship, University of Miami (\$5,000)
- 2012-2013 – J. Gerry Curtis Plant Sciences Award, University of Miami (\$1,200)
- 2012 – Max and Peggy Kriloff Travel Scholarship (\$250)
- 2012 – International Symbiosis Society Travel Scholarship (\$1,000)
- 2011 – J. Gerry Curtis Plant Sciences Award (\$1,700)

Honors and Awards

- 2015 – International Mycorrhiza Society Prize Talk Award, 8th International Conference on Mycorrhizas, Northern Arizona University, Flagstaff, Arizona, USA
- 2015 – Second Place Talk Award, 6th Annual Graduate Symposium, Department of Biology, University of Miami
- 2014 – Outstanding Teaching Assistant Award, Department of Biology, University of Miami
- 2014 – First Place Poster Award, 5th Annual Graduate Symposium, Department of Biology, University of Miami
- 2013 – Outstanding Graduate Student Paper Award, Department of Biology, University of Miami
- 2009, 2011, 2012 – National Science Foundation Graduate Research Fellowship Honorable Mention

Research Interests

1. Community consequences of common arbuscular mycorrhizal networks effects on plant competition for mineral nutrients.
2. The role of course-based research experiences in underrepresented minority student retention within STEM fields, achievement in the classroom, and interest in extracurricular research experiences.

Publications and Presentations

Journal Publications

- In Review* – **Weremijewicz, J.**, Indorf, J.L., Knecht, M.R., Gaines, M.S. Integrating biology and chemistry in a research-based introductory laboratory course. *Journal of Research in Science Teaching*.
- 2019 – Indorf, J.L.*, **Weremijewicz, J.***, Janos, D.P., Gaines, M.S. Adding authenticity to inquiry in a first-year, research-based, biology laboratory course. *CBE Life Sciences* 18(3)
- 2019 – **Weremijewicz, J.** & Janos, D.P. Investigation of plant interactions across common mycorrhizal networks using rotated cores. *Journal of Visualized. Experiments.* (145), e59338, doi:10.3791/59338
- 2018 - **Weremijewicz, J.**, Sternberg L da SL, Janos, D.P. Arbuscular common mycorrhizal networks mediate intra- and interspecific interactions of two prairie grasses. *Mycorrhiza.* 28(1), 71-83 doi10.1007/s00572-017-0801-0

- 2016 – **Weremijewicz, J.**, Sternberg L da SL, Janos, D.P. Common mycorrhizal networks amplify competition by preferential mineral nutrient allocation to large host plants. *New Phytologist*. 212(2): 461-471. doi10.1111/nph.14041
- 2016^φ – **Weremijewicz, J.**, and Seto, K. Mycorrhizas influence functional traits of two tallgrass prairie species. *Ecology and Evolution*. 6(12), 3977-3990. doi10.1002/ece3.2129
- 2016^φ – **Weremijewicz, J.**, Almonte, J.I., Hilaire, V.S., Lopez, F.D., Lu, S.H., Marrero, S.M., Martinez, C.M., Zarate, E.A., Lam A.K., Ferguson, S.A.N., Petrakis, N.Z., Peeples, K.A., Taylor, E.D., Leon, N.M., Valdes, C., Reeve, A.B., Hass, M.A., Palow, D.T., Downing, J.L., Microsatellite primers for two threatened orchids in Florida; *Encyclia tampensis* and *Cyrtopodium punctatum* (Orchidaceae) *Applications in Plant Sciences*. 4(4): 1500095
- 2013 – **Weremijewicz, J.**, and Janos, D.P. Common mycorrhizal networks amplify size inequality in *Andropogon gerardii* populations. *New Phytologist*. 198(1) 203-213.
- 2012 – Galloway, M.M., DiGangi, J.P., Hottle, J.R., Huisman, A.J., Mielke, L.H., Alaghmand, M., Shepson, P.B., **Weremijewicz, J.**, Klavon, H., McNeal, F.M., Carroll, M.A., Griffith, S., Hansen, R.F., Stevens, P.S., Bertman, S.B., and F.N. Keutsch. Observations and modeling of formaldehyde at the prophet mixed hardwood forest site in 2008. *Atmospheric Environment* 49:403-410.

* The authors contributed equally to the manuscript

^φ Publication with high school students or undergraduates

Publications in the Popular Press

2015 – “Symbiotic Super Powers” <https://vimeo.com/128943934>

2015 – “Graduate Student Spotlight”, Department of Biology webpage, University of Miami, <http://www.as.miami.edu/biology/>

2014 – “UM Biology Ph.D. Student Receives Dissertation Support Grant from National Science Foundation,” Arts and Sciences Magazine, University of Miami

2014 – “UM Biology Ph.D. Student Receives Dissertation Support Grant from National Science Foundation,” College of Arts and Sciences News and Events, June 30, 2014

Invited Research Seminars

2016 – **Weremijewicz, J.** “Belowground networks- The hidden influence of symbiotic fungi on plant interactions” North Central College, Naperville, IL

2016 – **Weremijewicz, J.** “Belowground networks- the hidden influence of symbiotic fungi on plant interactions and nutrition” Science @ South Seminar Series, Broward College, Pembroke Pines, FL

2016 – **Weremijewicz, J.** “Plant interactions across common mycorrhizal networks” Plant Sciences Seminar Series, Florida International University, Miami, FL

2012 – **Weremijewicz, J.** “Common mycorrhizal networks amplify size inequality in *Andropogon gerardii* populations” Winter Seminar Series, Broward College, Davie, FL

Invited Symposium Presentations

2017 – **Weremijewicz, J.**, Sternberg L da SL, Janos, D.P “Arbuscular common mycorrhizal networks mediate plant intra- and interspecific interactions” 9th International Conference on Mycorrhizas, Prague, Czech Republic

Contributed Oral Presentations

2019 – Wojciechowski, A., Sorrentino, S., **Weremijewicz, J.** “Mineral nutrient distribution within common mycorrhizal networks-interplant transfer or partitioning from the soil?” Rall Symposium, North Central College, Naperville, IL

2017 – **Weremijewicz, J.**, “Integrating Biology and Chemistry in Research-Based Introductory Laboratory Courses.” 2017 Scholarship of Pedagogy Symposium, Associated Colleges of the Chicago Area, University of St. Francis, Joliet, IL

2017 – Indorf J.L., **Weremijewicz, J.**, Gaines, M.S., “Impact of authentic research based introductory lab courses on students at a research university and a community college.” Understanding Interventions that Broaden Participation in Science Careers: Advancing Local Interventions towards Systematic Change, San Antonio, Texas

2015 – **Weremijewicz, J.**, Sternberg L da SL, Janos, D.P. Common mycorrhizal networks sustain competition and preferentially allocated ¹⁵N to large plants. 8th International Conference on Mycorrhizas, Northern Arizona University, Flagstaff, Arizona, USA

2015 – **Weremijewicz, J.** “Is belowground competition always symmetric?” University of Miami Symposium, Coral Gables, FL

2012 – **Weremijewicz, J.** “Common mycorrhizal networks induce inequality in size distribution of *Andropogon gerardii* populations.” University of Miami Symposium, Coral Gables, FL

2011 – **Weremijewicz, J.** “The effect of the common mycorrhizal network on intraspecific plant interactions.” University of Pretoria Symposium, Pretoria, South Africa

Poster Presentations

2018 – Vihnanek, N., O’Brien, B., **Weremijewicz, J.** The mutualism-parasitism continuum of arbuscular mycorrhizal fungi with Big Bluestem (*Andropogon gerardii*). National Conference on Undergraduate Research, Kennesaw State University, GA

2018 – Vihnanek, N., O’Brien, B., **Weremijewicz, J.** The mutualism-parasitism continuum of arbuscular mycorrhizal fungi with Big Bluestem (*Andropogon gerardii*). Summer Undergraduate Research Conference. North Central College, Naperville, IL

2018 – Wojciechowski, A., **Weremijewicz, J.** “Big Bluestem Growth Responses to Mycorrhizal Fungi Under a Gradient of Manganese Soil Fertility” Rall Symposium, North Central College, Naperville, IL

2017 - **Weremijewicz, J.**, Indorf, J.L., Gaines, M.S. “Benefits of Authentic Research-based Courses” Undergraduate Biology Education Research Gordon Conference, Stonehill College, MA

2017 – **Weremijewicz, J.**, Indorf, J.L., Belmont, H.J., Gaines, M.S. “Authentic research-based introductory laboratory courses at a community college” National Institute of General Medical Sciences (NIGMS) of the National Institutes of Health Training, Workforce Development, and Diversity Program Directors’ Meeting. Baltimore, Maryland

- 2017 – Moore, D., and **Weremijewicz, J.**, “Student experiences, attitudes, and learning outcomes of an authentic research laboratory course using the sea urchin, *Lytechinus variegatus*, as a model organism.” National Marine Educators Association Meeting, Charleston, SC.
- 2016 – **Weremijewicz, J.**, Janos, D.P.: “Common mycorrhizal networks foster overyielding by *Andropogon gerardii* and enhance survival of *Elymus canadensis*” Ecological Society of America Meeting, Fort Lauderdale, Florida
- 2014 – **Weremijewicz, J.**, Janos, D.P.: “Phosphorus response of mycorrhizal versus non-colonized *Andropogon gerardii*” 5th Annual Graduate Symposium, Department of Biology, University of Miami, Coral Gables, Florida
- 2013 – **Weremijewicz, J.**, Janos, D.P.: “Common mycorrhizal networks amplify size inequality in *Andropogon gerardii* populations” 7th International Conference on Mycorrhizas, New Delhi, India
- 2012 – **Weremijewicz, J.**, Janos, D.P.: “Common mycorrhizal networks amplify size inequality in *Andropogon gerardii* populations” 7th Congress of the International Symbiosis Society, Krakow, Poland
- 2012 – **Weremijewicz, J.**, Arienzo, M, Monroe, T, Delgadillo, R, Gaines, M. “The University of Miami Science Made Sensible Program: Making Connections Through Innovation.” Graduate STEM Fellows in K-12 Education Annual Conference, Washington, DC
- 2011 – **Weremijewicz, J.**, Janos, D.P.: “Does a common arbuscular mycorrhizal network affect plant intraspecific competition among *Psidium guajava* L. seedlings?” Research, Creativity and Innovation Forum, Coral Gables, FL
- 2011 – **Weremijewicz, J.**, and D. P. Janos: “Does a common arbuscular mycorrhizal network affect plant intraspecific competition?” 2nd Annual Graduate Symposium, Department of Biology, University of Miami, Coral Gables, Florida

Conference Participation (since 2010)

- 2019 – 10th International Conference on Mycorrhizas, Merida, Mexico
- 2017 – Scholarship of Pedagogy Symposium, Associated Colleges of the Chicago Area, Joliet, IL
- 2017 – Gordon Research Conference on Undergraduate Biology Education, Easton, MA, USA
- 2017 – 9th International Conference on Mycorrhizas, Prague, Czech Republic
- 2015 – 8th International Conference on Mycorrhizas, Flagstaff, Arizona, USA
- 2013 – 7th International Conference on Mycorrhizas, New Delhi, India
- 2012 – 7th Congress of the International Symbiosis Society, Krakow, Poland
- 2012 – Graduate STEM Fellows in K-12 Education Annual Conference, Washington, DC
- 2011 – Research, Creativity and Innovation Forum, Coral Gables, FL

Teaching

Undergraduate Courses at North Central College

- 2019 – BIOL325 Plant Interactions in a Changing World
- 2019 – BIOL325 Plant Interactions in a Changing World Lab

2019 – BIOL195 Investigating Biology
 2019 – BIO106/ENV106 Introduction to Environmental Science
 2019 - BIO106L/ENV106L Introduction to Environmental Science Lab
 2018, 2019 – BIO151 Biological Investigations
 2018, 2019 – BIO152L Biological Investigations Lab II
 2018 – Ecology and the Environment
 2018 – Ecology and the Environment Lab
 2018, 2017 – BIO151L Biological Investigations Lab
 2017 – BIO301 Plant Physiology
 2017 – BIO301L Plant Physiology Lab

Undergraduate Courses

2015 – Howard Hughes Medical Institute Integrated Biology-Chemistry Laboratory
 2014 – BIL161 – General Biology Laboratory: Ecology and Evolution
 2013 – BIL151 – General Biology Laboratory
 2010 – BIL236 – Ecology Laboratory (Writing Intensive)

Mentorship

Research Mentor – North Central College

2017- 2019 – 6 students mentored in research design, execution, analysis, and communication.

Environmental Studies Mentor – North Central College

2017 - 2019 – 2 students mentored in the experiential component

Undergraduate Research Mentor – University of Miami

2010-2016 – 9 students mentored in research experiences

Teaching Mentor – University of Miami

2015 – 2 students mentored in the Science Made Sensible Program at the University of Miami

High School Student Research Mentor – High School

2015 – 14 high school students mentored in research design, execution, analysis, communication.

Service – North Central College

Departmental

2017-Present – Member – Environmental Studies Program

2019 – Professional Development Committee, Environmental Studies Program

2018 – Organizer, Ecology Student Research Symposium

Collegial Activity- North Central College

2018-present – Tree Committee Member

2018 – Secretary, General Education Committee

2018 – Presenter, CV and Resume Workshop, Summer Undergraduate Research Colloquium

2018 – Faculty Leader, Cardinal Camp

2017 – Panelist – *Hurricane Roundtable Discussion*, Environmental Studies Program

Outreach with students

2019 – Science Immersion Cardinal Camp organizer and leader

2018 – Faculty Leader, D-term trip to Guatemala with ENACTUS

2018 – Science Immersion Cardinal Camp Faculty Mentor

2018, 2017 – Cardinal First Friday Lunch Workshop Faculty Speaker

2017, 2018, 2019 – Cardinal First Sophomore Supper Guest Faculty Member

Service – University of Miami

Departmental

2014-2015 – Graduate student representative – Microbial Symbiosis and Ecosystem Ecologist job search committee

2013-2014 – President – Biology Graduate Student Organization

2013 – Alumni Weekend volunteer, taught about mycorrhizal research

2013 – Judge – Research Creativity and Innovation Forum for Undergraduates

2012-2013 – Graduate student representative – Kushlan Chair search committee

2012-2013 – Graduate student representative – Biology Curriculum Committee

2011-2012 – Graduate student representative – Graduate Admissions and Advisory Committee

2011 – Panel member – Graduate Student Association Information Session for Undergraduate Applying to Graduate School

Collegial Activity

2017 – Student Awards Committee Co-Chair – *9th International Conference on Mycorrhizas*, Prague, Czech Republic

2015 – Panelist – *Graduate school panel for Leadership Alliance, IMSD and HHMI fellows*, University of Miami, Coral Gables, FL

2015 – Organizer and research mentor - Fairchild Challenge High School Internship Program, *Development and testing of microsatellite primers for Encyclia tampensis and Cyrtopodium plantatum*, Fairchild Tropical Botanic Garden, Coral Gables, FL

2014 – Organizer and Panelist - *Applying for the National Science Foundation Doctoral Dissertation Improvement Grant Panel Discussion*- University of Miami

2014 – Research Mentor - *Nandor Garamszegi, PhD* - Trained a colleague in the identification of mycorrhizal and saprotrophic fungi in root organ cultures, Janos Laboratory, Department of Biology, University of Miami

2013 – Summer institute co-leader – *Problem based learning and Building an Inquiry Based Lab* – National Science Foundation GK-12 Science Made Sensible Summer Institute, University of Miami

- 2012 – Workshop co-leader and volunteer – *Problem based learning and Web 2.0 in the classroom* – South African Agency for Science and Technology Advancement (SAASTA) in collaboration with Miami Museum of Science and University of Miami
- 2012 – Summer institute co-leader – *Problem based learning and Building an Inquiry Based Lab* – National Science Foundation GK-12 Science Made Sensible Summer Institute, University of Miami
- 2012 – Workshop co-leader – Problem based learning in a middle school classroom – Miami-Dade County Public Schools Workshop, University of Miami
- 2010 – Panelist- Information Session for Undergraduates Applying to Graduate School – Department of Biology, University of Miami

Public outreach

- 2016 – HHMI High School Scholars Summer Program Coordinator, University of Miami, Coral Gables, FL
- 2015 – High school internship program coordinator, Fairchild Tropical Botanic Garden, , Coral Gables, FL
- 2014-2015 – Classroom Scientist, Richmond Heights Middle School AgriScience Program, Miami, FL
- 2014 – Presenter, *Starting a School Garden*, George Washington Carver Middle School, Miami, FL, Miami, FL
- 2014 – Presenter, *Starting a School Garden*, North Miami Middle School, Miami, FL
- 2013 – Member of Fairchild Palms, 501 (c) nonprofit organization, Organizer of the Fairchild Fine Wines|Upscale Ales charity event for The Fairchild Challenge, Coral Gables, FL
- 2013 – Environmental Action panel judge, The Fairchild Challenge, Fairchild Tropical Botanic Garden, Coral Gables, FL
- 2013 – Science Experiments: Environmental Science judge, The Fairchild Challenge, Fairchild Tropical Botanic Garden, Coral Gables, FL
- 2012 – Science Stars guest presenter, Miami Museum of Science, Presented “Symbioses make the world go round,” and created an activity for an assembly to Shadowlawn Elementary students in little Haiti, Miami, FL
- 2012 – Inquiry based learning in the classroom, laboratory, and field, consultant for Richmond Heights Middle School laboratory, Miami, FL
- 2012 – “Project Rise” Professional Development for Miami-Dade Public School teachers Web 2.0 facilitator, Coral Gables, FL
- 2010 – Fairchild Tropical Garden Ramble Gifford Arboretum volunteer, Coral Gables, FL

Professional Training

- 2018 – Assessment Design Workshop Series, North Central College, Naperville, IL
- 2017 – New Faculty Institute, Center for the Advancement of Faculty Excellence, North Central College, Naperville, IL

- 2017 – Effective Mentoring Workshop, Dr. Evelyn Frazier, National Research Mentoring Network, University of Miami, Coral Gables, FL
- 2016 – “PORTAAL (Practical Observation Rubric to Assess Active Learning) Workshop” Dr. Mary Pat Wenderoth, University of Miami, Coral Gables, FL
- 2015 – “Presenting your best self at interviews” Professional Skills Workshop, University of Miami, Coral Gables, FL
- 2014 – “Strategies in Academia” Scientists and Engineers Expanding Diversity & Success Workshop, University of Miami, Coral Gables, FL
- 2013 – “Getting your research recognized” Scientists and Engineers Expanding Diversity & Success Workshop, University of Miami, Coral Gables, FL
- 2012 – “Implicit Bias” Search Committee Workshop, University of Miami, Coral Gables, FL
- 2012 – National Science Foundation GK-12 Science Made Sensible Fellowship Summer Institute
- 2011 – National Science Foundation GK-12 Science Made Sensible Fellowship Summer Institute

Professional Society Membership (*currently active)

- *500 Women Scientists Chicago
- *Sigma Xi
- *International Mycorrhiza Society
- *Ecological Society of America
- *Soil Ecology Society
- International Symbiosis Society
- Preparing Future Faculty

Reviewer – Journals

- 2019 – Archives of Agriculture and Soil Science
- 2019 – PLOS One
- 2018, 2017, 2016 – *Mycorrhiza*
- 2018, 2015 – *Journal of Ecology*
- 2018 – *Ecology and Evolution*
- 2017 – *Fungal Ecology*
- 2017 – *American Journal of Undergraduate Research*
- 2017, 2019 – *Plant and Soil*
- 2017, 2016 – *New Phytologist*
- 2014 – *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*

Number of manuscripts reviewed to date: 23

Reviewer – Grant Proposals

- 2017 – AgreeSkills Programme, National Institute for Agricultural Research, France