



Dr. Greg Bonito

Assistant Professor

Department of Plant, Soil and Microbial Sciences

College of Agriculture and Natural Resources

Dr. Gregory Bonito is an assistant professor in the Department of Plant, Soil and Microbial Sciences at Michigan State University.

Dr. Bonito studies fungi, microbiomes, symbioses and biogeography. With mounting evidence that resilience to environmental stress and disturbance by organisms is linked to activity of microbes, a property that scales up to ecosystems and emerges in the overall functioning of Earth's life support systems, Dr. Bonito's research investigates both stochastic and deterministic processes involved in microbiome assembly and function. His long-term goal is to use this information to improve productivity and resilience of agricultural and natural systems that sustain humans and Earth's ecosystems. Dr. Bonito is also working on developing a research program in Fiji focused on microbial community profiles as signatures of health and disease in agricultural soils and in ocean coral reefs.

Dr. Bonito joined the Department of Plant, Soil and Microbial Sciences in January 2015. He earned a Ph.D. in Biology from Duke University, an M.S. in Conservation Ecology and Sustainable Development from the University of Georgia, and a B.S. in Ecology and Environmental Biology from Appalachian State University.

Global research interests

- Microbiomes
- Mycology
- Plant-fungal interactions
- Truffle ecology
- Evolution of bacterial endosymbiosis in fungi
- Biogeography

Geographic focus

- Australia
- Fiji