

SREEJATA BANDOPADHYAY, Ph.D.

Pacific Northwest National Laboratory

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EDUCATION

2019 Ph.D. in Plant, Soil and Environmental Science, University of Tennessee,
Knoxville TN, USA

Advisor: Jennifer DeBruyn

2013 MSc in Microbiology, University of Calcutta, Kolkata, India

2011 BSc in Microbiology, University of Calcutta, Kolkata, India

APPOINTMENTS

March 2023 – present Post Doctorate Research Associate B, Pacific Northwest National
Laboratory

Advisor: Vanessa Bailey

Sept 2019 – March 2023 Research Associate – Fixed Term, Michigan State University, East
Lansing, Michigan, USA

Great Lakes Bioenergy Research Center

Advisor: Ashley Shade

PUBLICATIONS

Manuscripts in preparation/revision

1. Bandopadhyay, S., Danczak, R.E., Patel, K.F. et al. Soil microbial community structure and ecology-function linkages along the terrestrial aquatic interfaces of a freshwater and estuarine coastal system. *In revision, Global Change Biology*.
2. Bandopadhyay, S., Bagchi, O., Shade, A. Activation dynamics and assembly of root zone soil bacterial communities in response to stress-associated phytohormones. *In revision. Microbiology Spectrum*.
3. Patel, K.F., Malhotra, A., Norris, C.G., McKeever S.A., Fields, D.M., Musci, J.I., Bandopadhyay S., et al. Transition zones at the changing coastal terrestrial aquatic interface. *In revision, JGR-Biogeosciences*.

4. Bandopadhyay, S., Patel, K.F., Fansler, S., Bailey, V.L. et al. Prolonged drought for 1000 days selects for unique microbial taxa not observed during short-term drought. *In prep.*
5. Bandopadhyay, S., Patel, K.F., Rod, K.A., Bailey, V.L. et al. Sulfate and nitrate amendments alter greenhouse gas fluxes with differing sensitivity across transect zones along the coastal terrestrial aquatic interface of Western Lake Erie basin. *In prep.*

Manuscripts accepted, in production or published

1. Bandopadhyay, S., Li, X., Bowsher, A.W., Last, R.L., Shade, A. 2024. Disentangling plant- and environment-mediated drivers of active rhizosphere bacterial community dynamics during short-term drought. *Nature Communications* 15, 6347.
2. Bandopadhyay, S., English, M.E., Anunciado, M.B., [¶]Starrett, M., Schaeffer, S.M., Hayes, D.G., DeBruyn, J.M. 2023. Organic and inorganic nitrogen amendments reduce biodegradation of biodegradable plastic mulch films. *Soil*, 9(2), pp.499-516. 10.5194/soil-9-499-2023.
3. DeBruyn, J.M., Hoeland, K.M., Taylor, L.S., Stevens, J.D., Moats, M.A., *Bandopadhyay, S.*, Dearth, S.P., Castro, H., Hewitt, K.K., Campagna, S.R., Dautartas, A.M., Vidoli, G.M., Mundorff, A.Z., Steadman D.W. 2021. Comparative decomposition of humans and pigs (*Sus scrofa*): Soil biogeochemistry, microbial activity and metabolic profiles. *Frontiers in Microbiology*, 11:608856. 10.3389/fmicb.2020.608856.
4. Bandopadhyay, S., Gonzalez, J.L., [¶]Henderson, K.B., Anunciado, M.B., Hayes, D.G., DeBruyn, J.M. 2020. Soil Microbial Communities Associated with Biodegradable Plastic Mulch Films. *Frontiers in Microbiology*, 11:587074. 10.3389/fmicb.2020.587074.
5. Sintim, H.Y., *Bandopadhyay, S.*, English, M.E., Bary, A., Gonzalez, J.L., DeBruyn, J.M., Schaeffer, S.M., Miles, C.A., Flury, M. 2020. Four Years of Continuous Use of Soil Biodegradable Plastic Mulch: Impact on Soil and Groundwater Quality. *Geoderma*, 381, p.114665. 10.1016/j.geoderma.2020.114665.
6. Bandopadhyay, S., Sintim, H.Y., Flury, M., DeBruyn, J.M. 2020. Effects of biodegradable plastic film mulching on soil microbial communities in two agroecosystems. *PeerJ*, 8, p.e9015. 10.7717/peerj.9015.
7. Sintim, H.Y., Bary, A.I., Hayes, D.G., Wadsworth, L.C., Anunciado, M.B., English, M.E., *Bandopadhyay, S.*, Schaeffer, S.M., DeBruyn, J.M., Miles, C.A. and Reganold, J.P., 2020. In situ degradation of biodegradable plastic mulch films in compost and agricultural soils. *Science of The Total Environment*, 727, p.138668. 10.1016/j.scitotenv.2020.138668.

8. Sintim, H.Y., *Bandopadhyay, S.*, English, M.E., Bary, A.I., DeBruyn J.M., Schaeffer S.M., Miles, C.A., Reganold J.P, Flury M. (2019). Impacts of Biodegradable Plastic Mulches on Soil Health. *Agriculture, Ecosystems and Environment*, 273, 36-49. 10.1016/j.agee.2018.12.002.
9. *Bandopadhyay, S., Martin-Closas, L., Pelacho, A.M., & DeBruyn, J.M. (2018). Biodegradable Plastic Mulch Films: Impacts on Soil Microbial Communities and Ecosystem Functions. *Frontiers in Microbiology*, 9, 819. 10.3389/fmicb.2018.00819.
10. Chakrabarti, P., Rana, S., *Bandopadhyay, S.*, Naik, D.G., Sarkar, S., & Basu, P. (2015). Field populations of native Indian honeybees from pesticide intensive agricultural landscape show signs of impaired olfaction. *Scientific Reports* 5: 12504. 10.1038/srep12504.
11. Mullick, A., Seal, A., *Bandopadhyay, S.*, Mukherjee, D., Das, M. and Mitra, A.K. (2013). In vitro antibiotic susceptibility of gram-positive rod isolated from soil in the vicinity of a dumping site. *International Journal of Current Research and Review*, 5(13), p.1.

^Ωundergraduate author | *Review, Perspective or Opinion

Book chapters

1. Bandopadhyay, S. and Shade, A. 2023. Soil bacteria and archaea. In *Soil Microbiology, Ecology, and Biochemistry Fifth Edition*. Ed. Eldor Paul and Serita Frey. Elsevier Press.
2. Hayes, D.G., Anunciado, M.B., DeBruyn, J.M., *Bandopadhyay, S.*, Schaeffer, S., English, M., Ghimire, S., Miles, C., Flury, M. and Sintim, H.Y. 2019. Biodegradable plastic mulch films for sustainable specialty crop production. In *Polymers for Agri-Food Applications* (pp. 183-213). Springer, Cham.

Extension publications

1. English, M., Schaeffer, S.M., Flury, M., Miles, C., DeBruyn, J.M., Hayes, D.G., and *Bandopadhyay, S.* 2016. Soil Carbon and Biodegradable Mulches. https://ag.tennessee.edu/biodegradablenmulch/Documents/What_is_Carbon_Cycling_Final_Aug5_2016.pdf. Performance and Adoptability of Biodegradable Mulch Report No. SE-2016-01.
2. DeBruyn J.M., *Bandopadhyay, S.*, Hayes, D.G., Inglis, D.A., Miles, C. 2015. Biodegradation: Putting biology to work. https://ag.tennessee.edu/biodegradablenmulch/Documents/biodegradation_factsheet.pdf. Performance and Adoptability of Biodegradable Mulch Report No. SE-2015-02.

3. Flury, M., Bary, A., DeBruyn, J.M., Schaeffer, S.M., Sintim, H.Y., *Bandopadhyay, S.* 2015. What is soil quality and how is it measured?
https://ag.tennessee.edu/biodegradablemulch/Documents/What_is_Soil_Quality_Aug5_2015.pdf. Performance and Adoptability of Biodegradable Mulch Report No. SE-2015-01.

RECOGNITION AND AWARDS

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| 2024 | Nominated and recognized by colleagues as an exemplary member of the postdoc community at PNNL, Earth and Biological Sciences Directorate, National Postdoc Appreciation Week |
| 2022 | Postdoctoral Travel Award, International Phytobiomes Conference, Denver, CO |
| 2022 | Michigan Translational Research and Commercialization Innovation Challenge Award |
| 2019 | Graduate Student - PhD Award of Merit, Gamma Sigma Delta, University of Tennessee Chapter |
| 2019 | The Team Award of Merit, Gamma Sigma Delta, University of Tennessee Chapter |
| 2018 | First Place Award, Research and Recommendation Meeting 3rd Annual Graduate Research Poster Symposium and Competition, University of Tennessee Institute of Agriculture |
| 2018 | Graduate Student with Professional Promise Award, Department of Biosystems Engineering and Soil Science, University of Tennessee |
| 2018 | Third Place Award, 3MT (https://threeminutethesis.uq.edu.au/) Finals competition, University of Tennessee Graduate School |
| 2018 | First Place Award, 3MT semi-final competition, College of Agricultural Sciences and Natural Resources, University of Tennessee |
| 2018 | American Society of Microbiology (ASM) Student and Postdoctoral Travel Award, ASM Microbe 2018, Atlanta, GA |
| 2017 | Graduate Student Travel Award, Soil Science Society of America Conference, Tampa, FL |
| 2016 | Graduate Student Travel Award, Soil Science Society of America Conference, Phoenix, AZ |

PRESENTATIONS

Conference and seminar oral presentations

1. Bandopadhyay, S., Danczak, R., Patel, K.F., Beilsmith, K., Weisenhorn, P., Spanbauer, T., Reichart, N. J., Weintraub, M., Bailey, V.L. Structural and Functional Insights from Soil Microbial Communities at the terrestrial-aquatic interface. Ecological Society of America Meeting, Baltimore, MD. 2025. **Selected for oral presentation*

2. Bandopadhyay, S., Danczak, R., Patel, K.F., Beilsmith, K., Weisenhorn, P., Spanbauer, T., Reichart, N. J., Weintraub, M., Bailey, V.L. Soil Microbial Community Structure and Ecology-Function Linkages along the Terrestrial-Aquatic Interfaces of a Freshwater and Estuarine Coastal System. Society of Wetland Scientists Annual Meeting, Providence, RI. 2025. **Invited. Symposia: Decoding Microbial Mysteries: Diversity and Dynamics across Diverse Wetland Ecosystems.*
3. Bandopadhyay, S., Danczak, R., Patel, K.F., Beilsmith, K., Weisenhorn, P., Thomas, S., Spanbauer, T., Weintraub, M., Megonigal, P., Bailey, V.L. Soil Bacterial Community Structure, Core Membership and Ecological Function along a Terrestrial-aquatic Interface of a Freshwater and Estuarine Coastal System. American Geophysical Union, AGU24, Washington D.C., 2024. **Selected for oral presentation*
4. Bailey, V. L., Bandopadhyay, S., Patel, K. F., Weisenhorn, P., Thomas, S., Spanbauer, T., Weintraub, M. Soil Bacterial Community Structure, Core Membership and Ecological Function along a Terrestrial-aquatic Interface of a Freshwater and Estuarine Coastal System. 19th International Symposium on Microbial Ecology, ISME, Cape Town, South Africa. 2024.
5. Bandopadhyay, S., Patel, K.F., Weisenhorn, P., Thomas, S., Spanbauer, T., Weintraub, M., Bailey, V. L. Soil Bacterial Community Structure, Core Membership and Ecological Function along a Terrestrial-aquatic Interface of a Freshwater and Estuarine Coastal System. 15th Annual Research Symposium, Pacific Northwest National Laboratory. 2024.
6. Bailey V. L., Patel K. F., Rod K. A., Weintraub M. N., Megonigal P., Bond-Lamberty B. P., Chen X., Day D., Doro K. O., Kemner K. M., Forbrich I., Malhotra A., McDowell N., Myers-Pigg A., O'Meara T., Regier P., Rich R., Ward N.D., Weisenhorn P., Bandopadhyay S., Song B. Biogeochemical Properties and Processes Across Contrasting Terrestrial-Aquatic Interfaces. AGU23, San Francisco, CA. 2023.
7. Shade A., Bandopadhyay S., Li X., Last R. Harnessing microbial reactivation in the rhizosphere to support plant resilience. Ecological Society of America, Portland, OR. 2023.
8. Bandopadhyay S., Li X., Bowsher A., Last R., Shade A. Impact of drought severity on assembly of the active rhizosphere microbiome and plant metabolite production in common bean and switchgrass. International Phytobiomes Conference, Denver, CO. September 13-16, 2022. **5-min Flash Talk. Session Name: Exploring Interactions Within Phytobiomes.*
9. Bandopadhyay S., Bowsher A., Shade A. Recruitment of the active rhizosphere microbiome in response to drought. Great Lakes Bioenergy Research Center Annual Science Meeting, Lake Geneva, WI. May 17-19, 2022. **Concurrent Session Name: Water*

Availability and Bioenergy Crops: What we have learned and what remains to be discovered.

10. Bandopadhyay S., Bowsher A., Shade A. Recruitment of the active rhizosphere microbiome in response to drought. Microbiology and Molecular Genetics Work in Progress Seminar Series, Michigan State University. March 28, 2022.
11. Bandopadhyay S., Bowsher A., Shade A. Recruitment of the active rhizosphere microbiome in response to drought. Great Lakes Bioenergy Research Center Sustainability Meeting. February 14-16, 2022. **Virtual meeting*
12. Bandopadhyay S., Shade A. Growth, resuscitation and recruitment of the rhizosphere microbiome in response to plant stress. Plant Resilience Institute Brown Bag Seminar Series, Michigan State University. February 15, 2021. ** Virtual meeting*
13. Bandopadhyay S., Shade A. Growth, resuscitation and recruitment of the rhizosphere microbiome in response to plant stress. Microbiology and Molecular Genetics Work in Progress Seminar Series, Michigan State University. November 9, 2020. **Virtual meeting*
14. DeBruyn J.M., *Bandopadhyay S.*, Bonifer K., Lique y Gonzalez J., Reynolds T. The agricultural plastisphere: Insights into soil microbes degrading biodegradable plastic mulch films. SSSA Meeting, San Diego, CA. January 6-9, 2019.
15. Sintim H., *Bandopadhyay S.*, English M., Bary A., DeBruyn J. M., Schaeffer S.M., Flury M. Biodegradable Plastic Mulch Effects on Soil Health. SSSA International Soils Meeting. 2019.
16. Bandopadhyay S., Sintim H.Y., Flury M., DeBruyn J.M. Structural and Functional Responses of Soil Microbial Communities to Biodegradable Plastic Film Mulching in Two Agroecosystems. Performance and Adoptability of Biodegradable Plastic Mulch for Sustainable Specialty Crop Production, Project Annual Meeting, Spokane, WA. June 19-21, 2018.
17. Bandopadhyay S., Sintim H.Y., Flury M., DeBruyn J.M. Structural and Functional Responses of Soil Microbial Communities to Biodegradable Plastic Film Mulching in Two Agroecosystems. American Society for Microbiology General Meeting, Atlanta, GA. June 7-11, 2018. **Selected for oral presentation*
18. Bandopadhyay S. Growing Green: Biodegradable Plastic Mulches for Sustainable Agriculture. 3-Minute Thesis Championship Finals, Graduate School, University of Tennessee. April 2018. **Awarded 3rd place (out of 12 finalists selected from 40+ entries)*

19. Bandopadhyay S. Growing Green: Biodegradable Plastic Mulches for Sustainable Agriculture. 3-Minute Thesis Semi-Finals, College of Agricultural Sciences and Natural Resources, University of Tennessee. April 2018. **Awarded 1st place*
20. Bandopadhyay S., Henderson K.B., Inglis D.A., Hayes D.G., DeBruyn J.M. Microbial Communities Associated with Biodegradable Plastic Mulch Films in Two Agroecosystems. ASA, CCSA, and SSSA International Annual Meeting, Tampa, FL. October 22-25, 2017. **5-minute Rapid Talk*
21. Sintim H., *Bandopadhyay S.*, English M., Bary A., DeBruyn J.M., Schaeffer S.M., Flury M. Biodegradable Plastic Mulch: Impacts on Soil Quality and Degradation in Soil and Compost. ASA, CSSA and SSSA International Annual Meeting, Tampa, FL. October 22-25, 2017.
22. Gonzalez J.L., Wen X., Bonifer K., *Bandopadhyay S.*, Reynolds T., DeBruyn J. M., Characterization of Soil Bacterial Isolates Capable of Degrading Biodegradable Plastic Mulch Films. ASA, CSSA and SSSA International Annual Meeting, Tampa, FL. October 22-25, 2017. **5-minute Rapid Talk*
23. DeBruyn J.M., *Bandopadhyay S.*, Sintim H., English M., Wen X., Gonzalez J.L., Schaeffer S.M., Flury M., Bonifer K., Reynolds T., Hayes D.G. Biodegradable Plastic Agricultural Mulches: Microbial Degradation and Implications for Soil Health. ASA, CSSA and SSSA International Annual Meeting, Tampa, FL. October 22-25, 2017.
24. Bandopadhyay S., DeBruyn J.M. Microbial Degradation of Biodegradable Plastic Mulch Films: Enrichment Cultures, Lab and Field Metagenomics' Studies. Performance and Adoptability of Biodegradable Plastic Mulch for Sustainable Specialty Crop Production, Project Annual Meeting, Knoxville, TN. March 20-22, 2017.
25. Bandopadhyay S., DeBruyn J.M. Enrichment and Characterization of Microbes Degrading Biodegradable Plastic Mulch Films. ASA-CCSA-SSSA Annual Meeting, Phoenix, AZ. November 6-9, 2016. **5-minute Rapid Talk*
26. Sintim H.Y., *Bandopadhyay S.*, Ghimire S., Flury M., Bary A.I., Schaeffer S., DeBruyn J.M., Miles C., Inglis D. Soil quality, moisture, and temperature evaluation under different biodegradable mulches. ASA-CSSA-SSSA Annual Meeting, Minneapolis, MN. November 15-18, 2015.
27. Bandopadhyay S., Goswamy D. Bioremediation of arsenic contaminated groundwater-focusing on the situation in West Bengal and Bangladesh. Modern Trends in Microbiology, Department of Microbiology, St. Xavier's College, Kolkata, India. October 17-18, 2012.

Poster presentations

1. Bandopadhyay S., Patel K. F., Weisenhorn P., Thomas S., Spanbauer T., Weintraub M., Bailey V. L. Soil Bacterial Community Structure and Core Membership Along a Terrestrial-Aquatic Interface of a Freshwater and Estuarine Coastal System. Earth and Biological Sciences Directorate Mini-Conference, Pacific Northwest National Laboratory, May 1-2, 2024.
2. Bandopadhyay S., Patel K. F., Weisenhorn P., Thomas S., Spanbauer T., Weintraub M., Bailey V. L. Soil Bacterial Community Structure and Core Membership Along a Terrestrial-Aquatic Interface of a Freshwater and Estuarine Coastal System. Environmental System Science PI Meeting, Reston, VA. April 16-17, 2024.
3. Bandopadhyay S., Li X., Bowsher A., Last R., Shade A. Impact of drought severity on assembly of the active rhizosphere microbiome and plant metabolite production in common bean and switchgrass. International Phytobiomes Conference, Denver, CO. September 13-16, 2022. * *Session Name: Exploring Interactions Within Phytobiomes.*
4. Bagchi, O, *Bandopadhyay S.*, Shade A. Stress-associated phytohormones affect the active rhizobiome of Switchgrass (*Panicum virgatum* L.). Great Lakes Bioenergy Research Center Annual Science Meeting, Lake Geneva, WI. May 17-19, 2022.
5. Bandopadhyay S., Bowsher A., Shade A. Recruitment of the rhizosphere microbiome in response to drought. Harnessing the Plant Microbiome, Nature Conferences, University of California, Davis, CA. October 22-24, 2021. * *Virtual meeting*
6. Bandopadhyay S., Sintim H.Y., Flury M., DeBruyn J.M. Structural and Functional Responses of Soil Microbial Communities to Biodegradable Plastic Film Mulching in Two Agroecosystems. Research and Recommendation Meeting 3rd Annual Graduate Research Poster Symposium and Competition, University of Tennessee Institute of Agriculture. December 18, 2018.
7. Bandopadhyay S., Sintim H.Y., Flury M., DeBruyn J.M. Structural and Functional Responses of Soil Microbial Communities to Biodegradable Plastic Film Mulching in Two Agroecosystems. Performance and Adoptability of Biodegradable Plastic Mulch for Sustainable Specialty Crop Production, Project Annual Meeting, Spokane, WA. June 19-21, 2018.
8. Bandopadhyay S., Sintim H.Y., Flury M., DeBruyn J.M. Structural and Functional Responses of Soil Microbial Communities to Biodegradable Plastic Film Mulching in Two Agroecosystems. American Society of Microbiology (ASM) Microbe Meeting, Atlanta, GA. June 7-11, 2018.

9. Bandopadhyay S., Henderson K.B., Inglis D.A., Hayes D.G., DeBruyn J.M. Microbial Communities Associated with Biodegradable Plastic Mulch Films in Two Agroecosystems. American Society of Agronomy (ASA)-Crop Science Society of America (CSSA)-Soil Science Society of America (SSSA)-Annual Meeting, Tampa, FL. October 22-25, 2017.
10. Bandopadhyay S., DeBruyn J.M. Enrichment and Characterization of Microbes Degrading Biodegradable Plastic Mulch Films. ASA-CSSA-SSSA Annual Meeting, Phoenix, AZ. November 6-9, 2016.
11. English M., *Bandopadhyay S.*, Hayes D.G., DeBruyn J.M., Wadsworth L.C., Schaeffer S.M. Temperature sensitivity of biodegradable plastic mulches to microbial decomposition. ASA-CSSA-SSSA Annual Meeting, Phoenix, AZ. November 6-9, 2016.
12. Sintim H.Y., *Bandopadhyay S.*, Ghimire S., Flury M., Bary A., Schaeffer S., DeBruyn J.M., Miles C., and Inglis D. Soil Quality and Colloid Transport under Biodegradable Mulches. European Geosciences Union (EGU) General Assembly, Vienna, Austria. April 17-22, 2016.
13. Bandopadhyay S., DeBruyn J.M. Microbial Degradation of Agricultural Plastics. Performance and Adoptability of Biodegradable Plastic Mulch for Sustainable Specialty Crop Production, Project Annual Meeting, Northwestern Washington Research and Extension Center, La Conner, WA. March 30- Apr 1, 2016.
14. Bandopadhyay S., DeBruyn J.M. Microbial Degradation of Agricultural Plastics. Soil Biogeochemistry Symposium, Knoxville, TN. March 11-13, 2016.
15. Schaeffer S.M., Flury M., Sintim H., *Bandopadhyay S.*, Ghimire S., Bary A., DeBruyn J.M. Soil Physical Characteristics and Biological Indicators of Soil Quality Under Different Biodegradable Mulches. AGU15, San Francisco, CA. December 14-18, 2015.

TEACHING AND MENTORING

Workshops organized

May 10, 2021	Literate analysis in R Markdown, Shade Lab group meeting, Michigan State University
June 7, 2021	Version control using git in R Studio, Shade Lab group meeting, Michigan State University
Aug 23, 2021	Geospatial analysis in R Studio, Shade Lab group meeting, Michigan State University

*Mentoring**Graduate Students*

Fall 2019 – Spring 2022

Bagchi, Oishi. Microbiology and Molecular Genetics
Doctoral Training Program, Michigan State University.*Undergraduate Students and Postbacs*

Spring 2024-present

McKever, Sophia. PNNL Soil Ecosystem Science Team.

Spring 2023-present

Norris, Cooper. PNNL Soil Ecosystem Science Team.

Summer 2022

Brass, Tai. Great Lakes Bioenergy Research Center Summer
Undergraduate Research Program, Michigan State
University.

Spring 2022

Cortez, Erica. Postbaccalaureate Research Education
Program (PREP), Michigan State University.

Spring 2021 - Summer 2021

Ruda, Emily. Dept. of Microbiology and Molecular Genetics,
Michigan State University.

Summer 2018 - Summer 2019

Starrett, Mallari. Dept. of Biosystems Engineering and Soil
Science, University of Tennessee.

Spring 2016 - Summer 2017

Henderson, Kelsey. Dept. of Biosystems Engineering and Soil
Science University of Tennessee.

Fall 2015 - Spring 2016

Irwin, Sean. Dept. of Microbiology. University of Tennessee.

Summer 2015

Moats, Michelle. Summer REU program. Florida
International University.

WORKSHOPS ATTENDED

March 12-13, 2024

Re-imagining the Next-Generation Ecosystem Experiments
(NGEE), Biological and Environmental Research,
Environmental System Science, PNNL.

Nov 12-13, 16-18, 2020

Reproducible Research Techniques for Synthesis,
National Center for Ecological Analysis and Synthesis.
Virtual.

Oct 4, 2018

Microbial Genomes Atlas (MiGA) Web-server and
Metagenome-Annotated Genomes (MAGs), University of
Tennessee Bioinformatics Resource Center. Knoxville, TN.

Apr 3-5, 2017

Three-day Mothur workshop to analyze amplicon
sequence data by Patrick Schloss. Detroit, MI.

Nov 15-18, 2015

'Data handling: tips and tricks they don't teach you in
grad school'. ASA/CSA/SSSA Meeting, Minneapolis, MN.

Sept 25-28, 2014

GIS and remote sensing using QGIS, how to use the R
platform for managing and analyzing ecological datasets,
graphics and visualization in R, and multivariate statistical

tools used in ecological research namely PCA, DCA, CCA, cluster analysis, and NMDS. Student Conference on Conservation Science, Indian Institute of Science, Bangalore, India.

SERVICE AND LEADERSHIP

Ad hoc manuscript reviews

Nature Communications
mSystems
PeerJ
Frontiers in Marine Science
Molecular Ecology
Science of the Total Environment
ACS Sustainable Chemistry and Engineering
Soil Science Society of America journal

Ad hoc proposal reviews

2024 Joint Genome Institute Community Science Program New Investigator Proposal Review Panel, Lawrence Berkeley National Laboratory
2020 California State University Agricultural Research Institute (CSU ARI) grant program

Panels and organizations

Spring 2022	Postdoctoral Panelist, Women Making Science event in honor of Women's History Month, Women and Minorities in the Physical Sciences & Graduate Women in Science - Mid-Michigan Chapter, Michigan State University
Spring 2021	Host, Plant Resilience Institute Invited Seminar Series, Michigan State University
Spring 2020 - Fall 2021	Organizer and Moderator, Plant Resilience Institute Plant Microbiome Supergroup meetings, Michigan State University
2018	Graduate Student Panelist, AgResearch Dean Position Search, University of Tennessee
2016 - 2019	Graduate Student Team Leader, Soil Ecology Working Group, Biodegradable Mulch Project (www.biodegradablenmulch.org), University of Tennessee
2015 - 2016	Event Coordinator, Indian Students' Association "Manthan", University of Tennessee

OUTREACH

- 2024 69th Mid-Columbia Science and Engineering Fair, Richland, WA
2016 - 2019 Supervisor for the “Experimental Design” session for middle- and high-school students, Tennessee Science Olympiad State Tournament, Knoxville, TN.
- 2015 - 2019 Volunteer instructor for KidsU “Forensic Chemistry Camp” Dept. of Chemistry, University of Tennessee, Knoxville, TN.