



# 34<sup>TH</sup> ANNUAL HARVARD FOREST ECOLOGY SYMPOSIUM

*Looking Forward with Long-Term Research: New Directions and Graduate Student Research in the Harvard Forest LTER*

MARCH 19<sup>TH</sup> 2024, 9 A.M. – 4:30 P.M. | FISHER MUSEUM, HARVARD FOREST

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9:00 Jonathan Thompson, Harvard Forest. *Welcome and overview of the Harvard Forest LTER VII proposed work*

9:20 Jackie Matthes, Harvard Forest. *Impacts of insect pests and climate stress on Harvard Forest's carbon and water cycles*

9:40 Alix Contosta, University of New Hampshire. *Exploring the impacts of changing winters and shifting seasonality on forest carbon and water dynamics*

10:00 Ashley Keiser, University of Massachusetts. *Plant-soil feedbacks: moderating C cycling shifts during hemlock decline*

10:20-10:50 **Break**

10:50 Meghan Blumstein, University of Virginia. *Using genomics to understand drivers of trait variation in tree species*

11:10 Andy Reinmann, CUNY Advanced Science Research Center. *Meet CLIFF: The Climate Interactions with Forest Fragmentation Experiment*

11:30 Katharine Hinkle, Harvard Forest. *The Harvard Forest LTER Schoolyard Program celebrates 20 years*

12:00-1:00 **Lunch**

1:00 Carina Berlinger, Harvard University OEB. *The mycorrhizal type of neighboring trees drives different competitive dynamics for arbuscular and ectomycorrhizal tree species*

1:15 Nikhil Chari, Harvard University OEB. *Arbuscular mycorrhizal and ectomycorrhizal trees exhibit different root nutrient acquisition strategies in response to long-term soil warming*

1:30 Emerson Conrad-Rooney, Boston University. *Atmospheric wet deposition in urban and suburban sites across the United States*

1:45 Jonathan Gewirtzman, Yale University. *Tree-mediated methane cycling: flux pathways, microbial drivers, and novel measurement techniques*

2:00 Jack Hastings, University of New Hampshire. *Shedding (near infrared) light on our ability to remotely estimate canopy nitrogen concentration*

2:15 Cynthia Liu, Harvard Graduate School of Education. *Understanding science identity and environmental attitudes in a K-12 community science program*

2:30-3:15 **Poster Session**

3:15 Charlotte Malmborg, Boston University. *Yesterday's trees, tomorrow's models: forecasting the next forest pest outbreak*

3:30 Linghui Meng, Syracuse University. *Prediction of climate change and urbanization effects on the carbon, nitrogen, and water dynamics in Northeastern Forest ecosystems*

3:45 Corrine Vietorisz, Boston University. *Fungal and bacterial guilds and functional genes explain soil nitrogen and phosphorus cycling across Massachusetts forests*

4:00 Tyler White, Harvard University Graduate School of Design. *Mindful landscapes: making visible history x annotating land narratives*

4:15 Wrap-up

4:30 Adjourn