

## Intelligent Cyberinfrastructure with Computational Learning in the Environment (ICICLE)

## **Webinar Series**

## **Cyberinfrastructure for Biodiversity Research**

Researchers, Practitioners, Developers

interested in exploring the benefits of field studies and emphasizing relationships with the biodiversity community

here is an opportunity to learn from experts in the field!
When: Thursday, June 12,2025, 11AM - Noon EST
Zoom Link:

## https://osu.zoom.us/j/93195486710?pwd=UVRwNG4wVkVCV25QSnZDMWxOWVg2QT09

ABSTRACT: Use-inspired cyberinfrastructure (CI) delivers efficacious, efficient, and context-aware data, software, and hardware to help research communities solve their problems. In biodiversity communities, drones, camera traps, and acoustic sensors are increasingly critical CI, enabling breakthroughs driven by data harvested in the field. However, many pressing intellectual shortfalls in biodiversity require coordinated, adaptive, and multi-modal sensing systems not supported by today's CI for biodiversity research. This webinar will present *Smart Fields*, an interdisciplinary collaboration housed in the ICICLE AI Institute, that is developing novel, use-inspired CI to supercharge biodiversity research. By design, our CI emphasizes relationships with the biodiversity community and products that make field studies more effective, efficient, and affordable. With our CI as a backdrop, biodiversity researchers and practitioners are (1) exploring ambitious plans to develop a living lab at the largest conservation center in North America, (2) conducting field studies with integrated drones, camera traps, and acoustic sensors that adapt to each other, (3) making better use of a wide range of AI systems from species detection to code generation, and (4) enhancing existing CI for biodiversity.

































