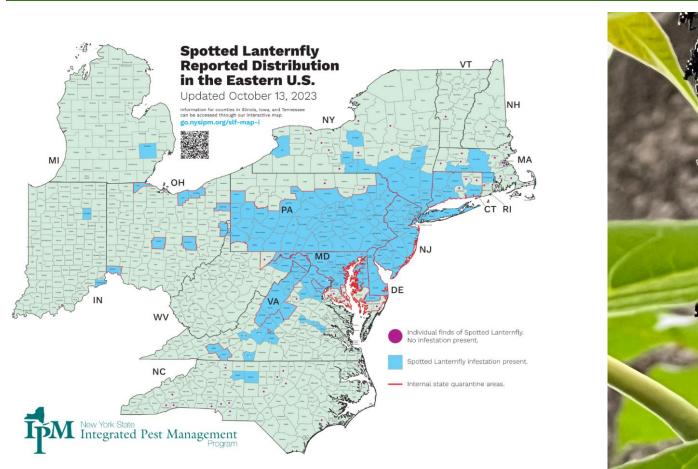
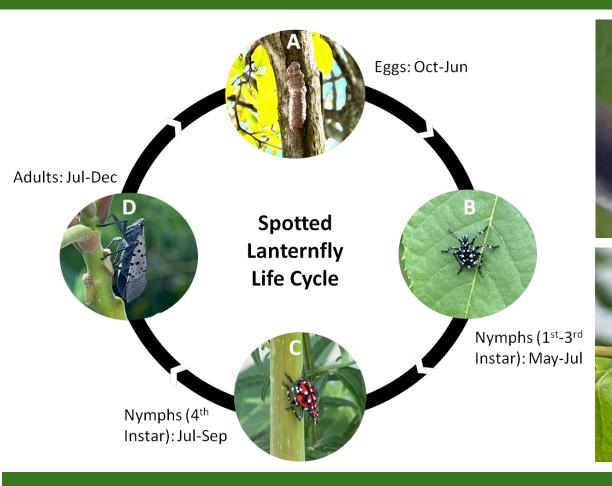


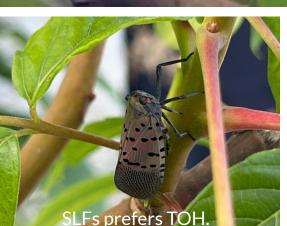
Creation of ArTreeficial: the first AI-tree solution to reducing invasive spotted lanternfly populations

Issue Statement



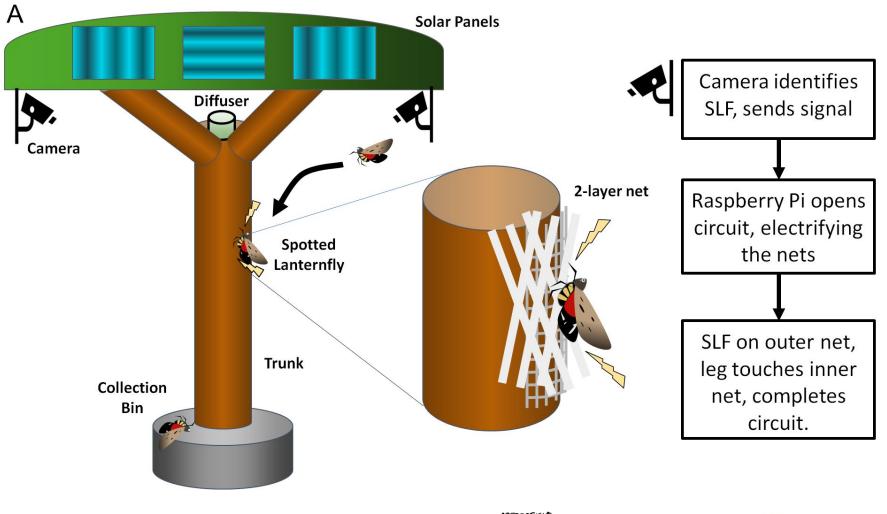


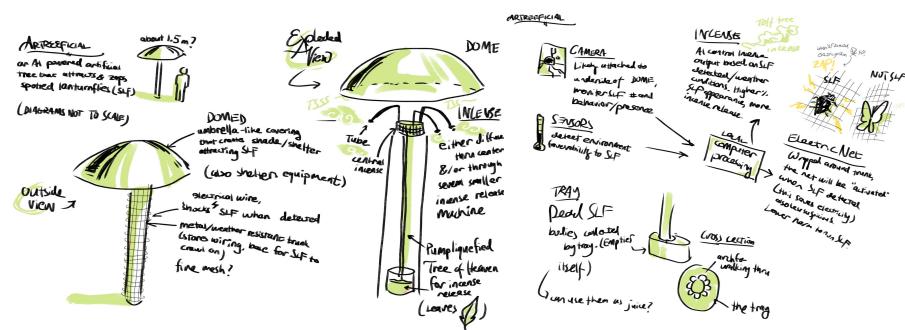




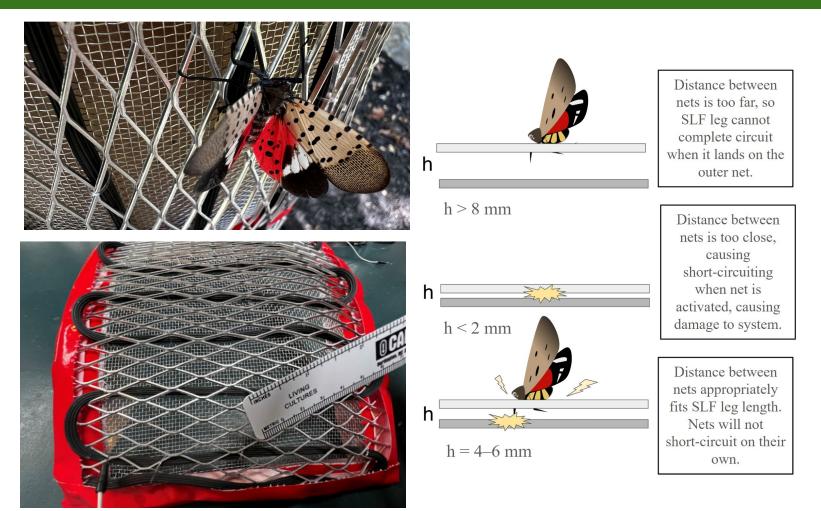
Integration of AI technology in ArTreeficial

My Field Studies of Spotted Lanternfly Behavior

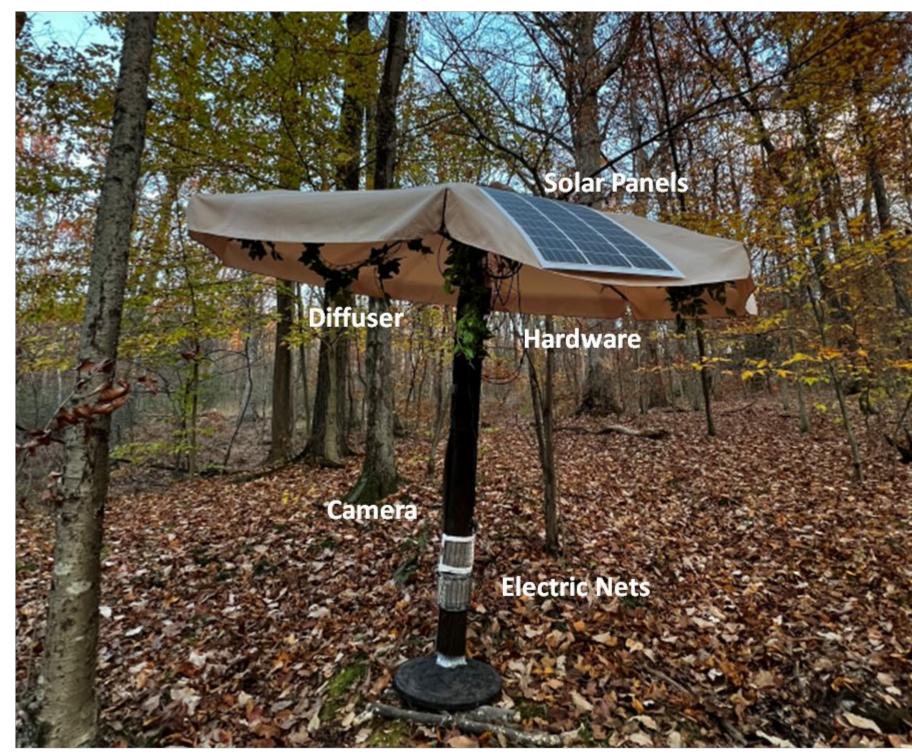




Double-Layered Electric Net Design and SLF Interaction with the Net



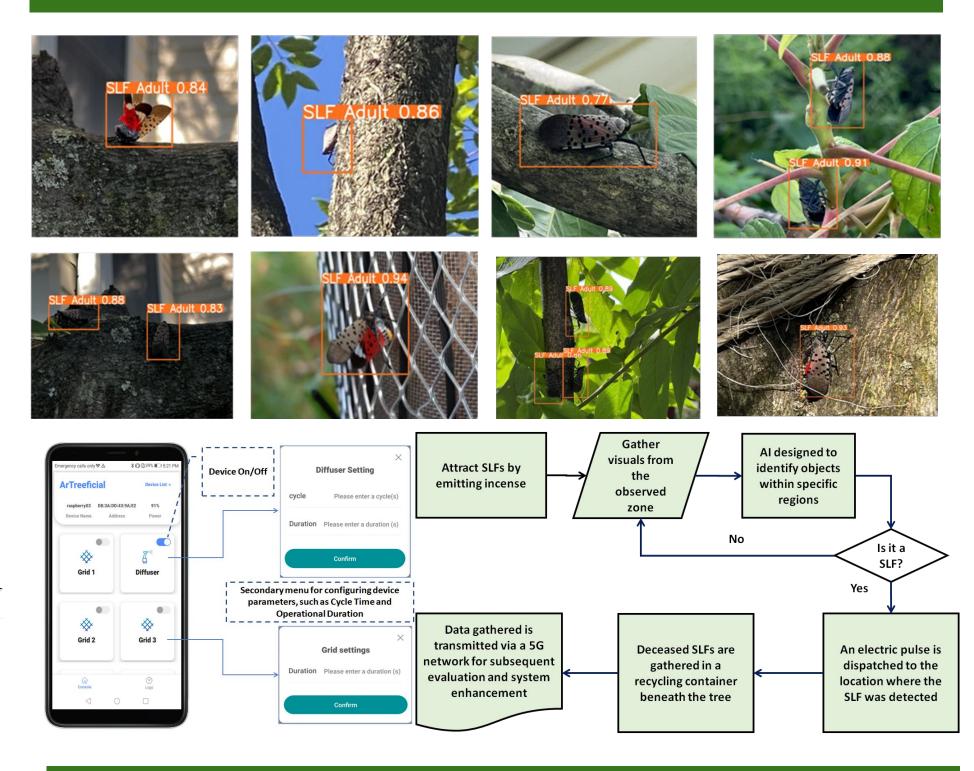
Demonstration of ArTreeficial in East Coast



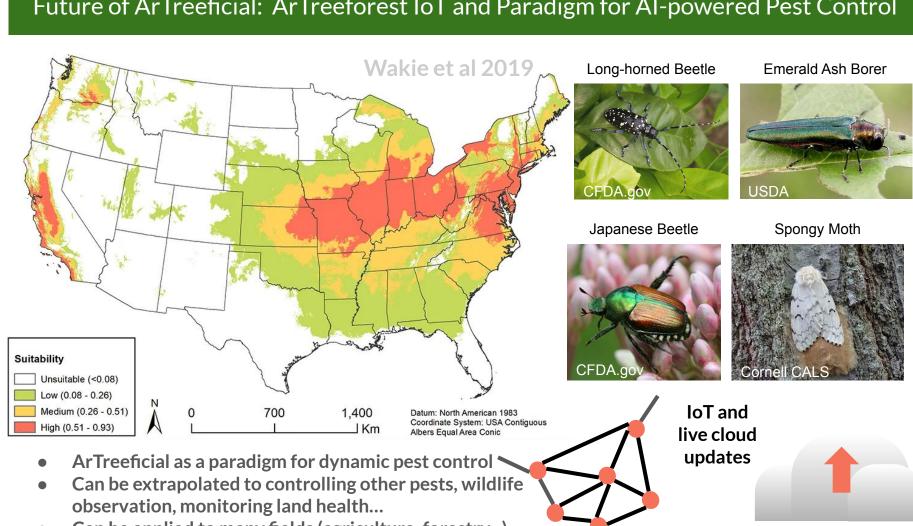


ArTreeficial, a solution uniting hardware and software, is deployed in the wild.

YOLO Computer Vision Identifying SLFs and Remote ArTreeficial App



Future of ArTreeficial: ArTreeforest IoT and Paradigm for AI-powered Pest Control



Can be applied to many fields (agriculture, forestry...)

Future extensions: ArTreeforest/OurForestry IoT, cloud computing, modes of mobility, ease of set-up, and live AI model training and updates.

All images and diagrams are by author unless otherwise noted.