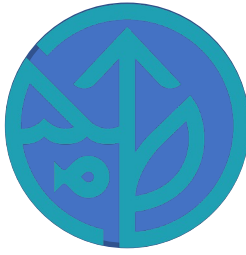


Romero Galvan – Scalable asymptomatic crop disease detection with airborne imaging spectroscopy

Fernando E. Romero Galvan, Cornell University



- Trained machine-learning models to detect symptomatic and asymptomatic grapevine leafroll virus (GLRaV-3) in California vineyards.
- Early detection of asymptomatic infection allows for mitigation to minimize spread and cost of disease for grape growers.
- In-person outreach to grape growers in Lodi, Santa Ynez valley, and Sonoma valley, in 2022 and 2023.
- Working with grape growers in Lodi California and Santa Ynez understand their GLRaV-3 severity.
- Deploying GLRaV-3 detection models to cloud-based for computation ‘on the edge’.

