

National Agricultural AI Institute for Transforming Workforce & Decision Support

Artificial Intelligence for Specialty Crop Agriculture







We build and foster human-AI partnerships to sustain specialty-crop agriculture and help feed our growing population. We bring together top researchers from diverse disciplines to empower agriculture professionals with trailblazing AI-tools to assist decision making. Our research can transform the way AI systems are designed and built to solve complex societal problems.

USDA National Institute of Food and Agriculture
UNITED STATES DEPARTMENT OF AGRICULUTRE

Agaid innovations & impacts

- Simulating orchard environments to train robot workers
- Optimizing water allocation using deep temporal models
- Developing streamlined human-Al workflows
- Advancing robot sensing and control
- Improving streamflow forecasting models
- Designing Inclusive user interfaces

HOW WE HELP

We work with specialty crops that demand long term management, use a lot of water, and are vulnerable to the impacts of extreme weather. We harness the combined power of human and artificial intelligence in three key areas:



Water Intelligence

fallow prediction | streamflow forecasting | water use modelling



Farm Operations Intelligence

irrigation management | frost mitigation | heat-stress management



Labor Intelligence

farm robotics | improved workflows | human-Al interaction