Friday, September 13th, 2019

The Cornell Initiative for Digital Agriculture (CIDA) hosts a Symposium in conjunction with the Life Sciences Lecture Series (LSLS), featuring Elliot Meyerowitz

Biotechnology Building, Room G10
12:00 PM – 6:00 PM

Schedule:

12:00 pm -1:00 pm Networking & Lunch

1:00 pm -4:00 pm CIDA Symposium

Presentations from faculty, postdocs, and graduate students

“Computational Morphodynamics of Sepal Development,” Adrienne Roeder, Associate Professor, Plant Biology, School of Integrative Plant Science (SIPS), College of Agriculture and Life Science (CALS)

“Single Cell Transcriptomic Analysis of the Maize Shoot Apex,” Jack Satterlee, Graduate Student, Plant Biology, SIPS, CALS

“Molecular Genetic Dissection of Calcium Signaling in Plant Immunity Regulation Using Arabidopsis Autoimmune Mutants,” Jian Hua, Professor, Plant Biology, SIPS, CALS

“Robust Model Predictive Control of Irrigation Systems with Active Uncertainty Learning and Data Analytics,” Wei-Han Chen, Graduate Student, Chemical and Biomolecular Engineering (CBE), College of Engineering (COE)
“Modifying Soil Microbiome Function to Manage Weed Populations,”
Jenny Kao-Kniffen, Associate Professor, Horticulture, SIPS, CALS

“Probing Photosynthesis from Remote Sensing of Solar-Induced Chlorophyll Fluorescence (SIF): from Leaf to Globe,” Christine Chang, Postdoctoral Researcher, Crop and Soil Science, SIPS, CALS

2:00-2:30 pm Coffee Break and Networking

“Spore Dispersal by Raindrop Air-vortex,” Sunny Jung, Associate Professor, Biological and Environmental Engineering (BEE), CALS

"In-field Whole Plant Maize Architecture Characterized by Latent Space Phenotyping," Joe Gage, Postdoctoral Researcher, Plant Breeding and Genetics, SIPS, CALS

“Plant Membrane Bioelectrode Sensors for Digital Agriculture Data Acquisition,” Susan Daniel, Associate Professor, Chemical and Biomolecular Engineering, COE

“AquaDust: Responsive Nanogels to Understand Multiscale Plant-water Relations,” Piyush Jain, Graduate Student, Mechanical and Aerospace Engineering, COE

“Insights into the Genetic Control of Vitamin Levels in Maize Grain,” Mike Gore, Professor, Plant Breeding and Genetics, SIPS, CALS

“Towards Generalizable and Equitable IoT Systems for Digital Agriculture” Gloire Rubambiza, Graduate Student, Computer Science (CS), Computing and Information Science (CIS)

3:30-4:00 pm Coffee Break and Networking

4:00pm - 5:00pm Elliot Meyerowitz
California Institute of Technology
“Mechanical Feedbacks in Plant Morphogenesis”

5:00 pm - 6:00 pm Networking & Refreshments