



# Phenomics and Plant Robotics Center

## UNIVERSITY OF GEORGIA

# DATA SCIENCE AND AI FOR INTEGRATIVE PRECISION AGRICULTURE AND PHENOMICS

Friday, September 17, 2021, 1–6 p.m.

Georgia Center Masters Hall | Athens, GA

Hosted by University of Georgia Phenomics and Plant Robotics Center

Sponsored by UGA College of Engineering, Office of Research and Department of Plant Pathology

## GOAL

To build an inclusive community of Integrative Precision Agriculture and explore opportunities in the “Data Science and AI” hiring initiative, as well as to promote social interactions among community members.

## AGENDA

**1:00–2:00**      **Graduate student poster competition**

**2:00–2:10**      **Opening remarks**

- Charlie Li, Director, Phenomics and Plant Robotics Center; Electrical and Computer Engineering, College of Engineering
- Don Leo, Dean, College of Engineering
- Larry Hornak, Associate Vice President for Research
- Jaime Camelio, Associate Dean for Research, College of Engineering
- Allen Moore, Associate Dean for Research, College of Agricultural & Environmental Sciences

**2:10–2:20**      **Education and Training: Big Data Certificate**

- Harald Scherm, Department Head, Plant Pathology; Coordinator, Agricultural Data Science Graduate Certificate, CAES

**2:20–4:20**      **Research talks from PPRC faculty members and research associates**

*5 minutes each*

## AGENDA (CONTINUED)

- 2:20–2:45**      **Foundational data science and AI**  
Moderator: Glen Rains, Entomology, CAES
- Tianming Liu, Computer Science, Franklin College of Arts and Sciences
  - Prashant Doshi, Computer Science, Franklin College
  - Jaewoo Lee, Computer Science, Franklin College
  - Sheng Li, Computer Science, Franklin College
  - Ninghao Liu, Computer Science, Franklin College
- 2:45–3:05**      **Precision livestock and forestry, economics**  
Moderator: Simer Virk, Crop and Soil Sciences, CAES
- Alicia Peduzzi, Warnell School of Forestry and Natural Resources
  - Prafulla Regmi, Poultry Science, CAES
  - Lilong Chai, Poultry Science, CAES
  - Gopinath Munisamy, Agricultural and Applied Economics, CAES
- 3:05–3:15**      **Break**
- 3:15–3:35**      **Challenges in plant/crop science**  
Moderator: Kyle Johnsen, Electrical and Computer Engineering, College of Engineering
- Marc van Iersel, Horticulture, CAES
  - Alex Bucksch, Plant Biology, Franklin College; Warnell School; Institute of Bioinformatics
  - Juliet Chu, Horticulture, CAES
  - Nino Brown, Crop and Soil Sciences, CAES
- 3:35–4:20**      **Data-driven and robotics technologies for IPA**  
Moderator: Alicia Peduzzi
- Khaled Rasheed, Computer Science, Franklin College
  - Charlie Li
  - Glen Rains
  - George Vellidis, Crop and Soil Sciences, CAES
  - Simerjeet Virk, Crop and Soil Sciences, CAES
  - Kyle Johnsen
  - Peter Kner, Electrical and Computer Engineering, College of Engineering
  - XQ Wang, Mechanical Engineering, College of Engineering
  - Ramvijas Parasuraman, Computer Science, Franklin College
- 4:20–4:30**      **Break**
- 4:30–4:40**      **Remarks from the Provost**  
• Jack Hu, Senior Vice President for Academic Affairs and Provost  
*Introduced by Charlie Li*
- 4:40–5:10**      **Faculty meeting**  
Facilitator: Charlie Li
- Activity report
  - IPA search update and the Institute of IPA
  - Programs for next year
  - Announcement of poster contest winners: Harald Scherm
- 5:10–6:00**      **Social interactions with drinks and refreshments**  
Facilitator: Debra Lovelady, College of Engineering