Precision Ag in the Barn and in the Pasture

MAY 17, 2024
2:30 PM ET, 1:30 PM CT,
12:30 PM MT, 11:30 AM PT

Precision agriculture is about **making decisions based on data**. Precision ag technologies are evolving at a fast pace in the field, but also in barns and pastures. The speakers will share updates on approaches to **precision agriculture** for **animal management, welfare and productivity**, and how these applications **influence nutrient management**.

An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) will be submitted.

Additional Information

- Have You Herd? Conversations with John Jackson & Morgan Hayes
  - On YouTube: youtube.com/watch?v=Phubtudsq0A&list=PLJG-tVLUcaWjKh072oxDIrOkGanhr5Jek&pp=iAQB
  - On PodBean: haveyouherdwithjoshandmorgan.podbean.com/
  - On Spotify: open.spotify.com/show/3vEg38RYIJB7d0siEqggly

Dr. Yang Zhao is an associate professor of Animal Science at the University of Tennessee. With a focus on **precision livestock farming**, his research addresses various **challenges in poultry industry**, including **behavior monitoring, welfare assessment, and environment management**. Zhao has secured multi-million-dollar research funding from USDA-NIFA, USDA-ARS, FFAR, US Poultry and Egg Association, and industry partners. Zhao has served as the chair and member of several professional committees of the American Society of Agricultural and Biological Engineers (ASABE) and is an associate editor of the Transactions of the ASABE. Some of his example recognitions include ASABE Sunkist Young Designer Award, AOC Early Career Award, Gamma Sigma Delta Research Award, UT AgResearch Dean's Grantsmanship Award, and T.J. Whatley Distinguished Young Scientist Award.
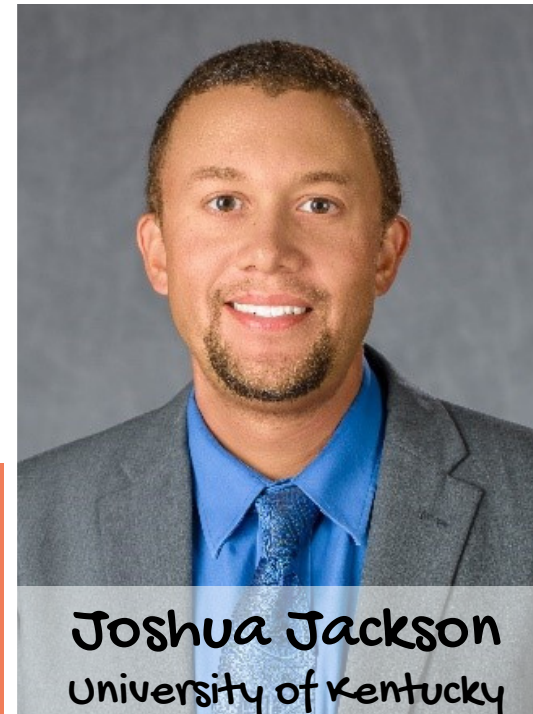Email: yzhao@utk.edu

Yang Zhao
University of Tennessee

Dr. Lilong Chai is an Assistant Professor & Engineering Specialist in the Department of Poultry Science at the University of Georgia (UGA). Chai's primary research interests include **animal environmental engineering and precision poultry farming**. He is currently a member of UGA Institute of Integrative Precision Agriculture. Prior to joining UGA, Chai was a Post Doc Research Associate in the Department of Ag. & Biosystems Engineering at ISU. Chai's contributions include 200 scientific publications, PI/Co-PI of 35 grants/contracts, and 20 awards and honors. Chai is currently serving as the Coordinator of Georgia Precision Poultry Farming Conference & Georgia Layer Conference, Chair of ASABE-Environmental Air Quality Committee, and the President of Association of Overseas Chinese Agricultural, Biological, and Food Engineers (AOCABFE)
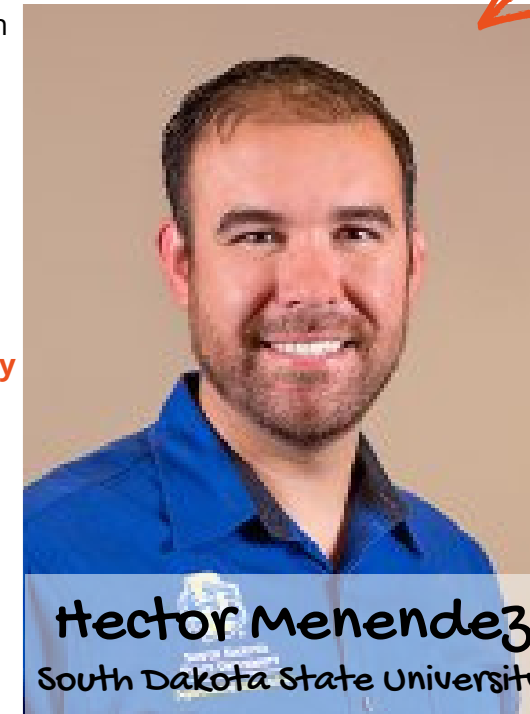Email: lchai@uga.edu

Lilong Chai
University of Georgia

Josh Jackson is an Assistant Extension Professor in Biosystems and Agricultural Engineering at the University of Kentucky. His current research focus on the **precision monitoring and management** of **unconfined livestock** - specifically beef cattle **on pasture**. He has evaluated the **use of drone** or unmanned aerial systems (UAS) **for monitoring and moving the spatially distributed cattle**. His work also utilizes drone to monitor the quality and quantity of forages available within the pastures and hayfields. He has received the ASABE Educational Aids Blue Ribbon Award for his extension publications.
Email: joshjackson@uky.edu

Joshua Jackson
University of Kentucky

Dr. Hector Menendez is an Assistant Professor in the Animal Science Department at South Dakota State University and serves as a state Livestock Grazing Extension Specialist. His research is focused on understanding complex **grazing systems and identifying high-leverage solutions**. He does this by using a combination of mathematical simulation modeling, **precision livestock technology**, and through the **evaluation of water-soil-plant-animal interconnections**. Dr. Menendez's Extension programming applies a systems approach to enhance producer management of livestock grazing systems. He also serves as a committee member of the National Animal Nutrition Program which guides national nutrient modeling resources, training, and application.
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Hector Menendez
South Dakota State University

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Livestock and Poultry Environmental Learning Community

The LPELC is a project dedicated to the vision that individuals involved in public policy issues, animal production, and delivery of technical services for confined animals systems should have on-demand access to the nation's best science-based resources. See our website at: lpelc.org

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