

AGRONOMY SEMINAR SERIES

FALL 2025

NOVEMBER 17, 2025

2:30 P.M. LILY 2-425

Attend virtually via Zoom

Seminar links will be posted at: purdue.ag/agryseminars



Dr. Scott Jackson received his M.S. and Ph.D. degrees from the University of Wisconsin-Madison followed by a fellowship at the University of Minnesota. He has held faculty positions at Purdue University (2001-2011) and the University of Georgia where he was the Georgia Research Alliance Eminent Scholar in Plant Functional Genomics (2011-2019) and currently the Georgia Research Alliance Eminent Scholar in Plant Synthetic Biology (2024-present). He also worked at Bayer crop Science where he led a data science team for Global Breeding and then led Product Development teams for North America.

DR. SCOTT JACKSON

GEORGIA RESEARCH ALLIANCE EMINENT SCHOLAR
IN PLANT SYNTHETIC BIOLOGY

HOST: DR. JIANXIN MA

Designer Crops—integrating engineering and biology to meet future demands

Plant breeding has been tremendously successful in providing high yielding crops for more than 100 years with many technological developments underpinning this success. We are poised for another technological transformation with the advent of artificial intelligence (AI) and genome engineering tools such as CRISPR-Cas. While the concept of AI dates back to the 1950s, it is only in the last few years that advances in generative AI have led to leaps in our ability to use machines to find patterns and make inferences at scale, including genetic information. Combining AI and synthetic biology principles offer new opportunities to develop the crops that are better designed for target environments or have new traits with additional value across the entire supply chain. At the University of Georgia, we have launched



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