

Indoor Farming Research

Science and Mathematics

Colloquium Series

Wed., Oct. 7, 3 p.m.

Zoom link: <https://asu.zoom.us/j/99112840824>

Considering climate change, water and land scarcity, and growing demand for local fresh produce, what will farming look like in the future? Indoor vertical farming is one of the technology-based approaches for crop production. Growing crops indoors enables precise control of the growing environment: to maximize the crop yield and quality one can fine-tune lighting, temperature, humidity, and nutrient solutions. In particular, using light-emitting diodes (LEDs) is a powerful tool to produce crops with desired attributes.

In this presentation, Professor Yujin Park will present some recent work on how manipulating light spectrum of LEDs regulates plant growth and quality attributes on a range of floriculture and vegetable crops.

Questions? Contact Steven.Saul@asu.edu



Yujin Park

Assistant Professor,
Faculty of Science and
Mathematics

ASU College of Integrative
Sciences and Arts

Yujin Park's research focuses on horticultural crop physiology and controlled environment agriculture, including indoor vertical farming and greenhouse production. She aims to better understand how environmental controls, including light, temperature, and nutrients, regulate plant growth and development of floriculture and vegetable crops and improve crop production efficiency in controlled environment agriculture production. Before joining ASU's College of Integrative Sciences and Arts, she earned her BS in architectural engineering from Yonsei University and her MS in horticultural science from Seoul National University. She obtained her PhD in horticulture at Michigan State University.

Faculty and practitioners discuss their current research and field projects in the Science and Mathematics Colloquium Series, held throughout the academic year at ASU's Polytechnic campus. All seminars are free and open to the public.