THE UNIVERSITY OF ARIZONA
Wyant College of Optical Sciences

INDUSTRIAL AFFILIATES WORKSHOP

STUDENT SPEAKER PROFILE

MINGHAO HU, PH.D. STUDENT

Wyant College of Optical Sciences
Advisor: David Brady

Tuesday, February 15, 2022 | 10:32 a.m.

Title: "Array Cameras for Sports Analytics"

Abstract: Sports analytics with computer vision tools requires high spatial and temporal resolution sampling within a large area, especially in our example case, baseball. That task throws a challenge to modern camera systems, as well as image/video analyzing algorithms. In this presentation, I will introduce the array camera design we proposed to fulfill the capturing task, and the machine learning approaches we're using to process array camera data.

Bio: Minghao Hu is a Ph.D. candidate of Duke University, now working on array camera design and array camera data processing in Prof. Brady's group at the University of Arizona. He believes that with analyzed design and the help of machine learning vision tools, we can build powerful, compact, and affordable array cameras. His work on array camera snapshot ptychography has appeared in Optical Express.

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