



Advances in Computational and Quantum Imaging (ACQI) Workshop

Wednesday, September 11, 2019

8:00 a.m. – 5:00 p.m.

Hall for Discovery Learning and Research, Room 131

The computational imaging techniques and algorithms have enabled several significant breakthroughs from sub-nanometer super-resolved fluorescence microscopy of biological structures, which was awarded the Nobel prize in chemistry, to the recent magnificent images of a black hole from millions of light years away. On the other hand, quantum sensing techniques enables surpassing the classical limit of imaging and holds promise for transformative impacts in the broad field of sensing.

Purdue University is holding the ACQI Workshop in recognition of the potential opportunities at the interface of computational, quantum and quantum-inspired imaging. The purpose of the workshop is to bring different communities together, review recent theoretical and experimental advances and explore synergetic collaborations. The workshop aligns well with the significant investments in quantum technologies through the National Quantum Initiative in the United States and similar initiatives worldwide.

Plenary Speakers:

Prof. Robert Boyd (University of Ottawa)

Prof. Bahaa E. A. Saleh (University of Central Florida)

Dr. Raphael Pooser (Oak Ridge National Laboratory)

Invited Speakers:

Prof. Charles A. Bouman (Purdue University)

Prof. Ali Shakouri (Purdue University)

Prof. Vivek Goyal (Boston University)

Prof. Andrew Weiner (Purdue University)

Prof. Evgenii Narimanov (Purdue University)

Prof. Olivier Pfister (University of Virginia)

Organizing Committee:

Yong Chen, Purdue University

Ali Shakouri, Purdue University

Mahdi Hosseini, Purdue University

Amirkoushyar Ziabari, Oak Ridge National Lab

Contact: mh@purdue.edu or ziabariak@ornl.gov

RSVP to Annie Wheeldon (acheever@purdue.edu) by 9/2/19 with any dietary needs.

Event Sponsored by:

*Birck Nanotechnology Center, Purdue Quantum Science and Engineering Institute,
Electrical and Computer Engineering, Physics and Astronomy*