



AI-driven autonomy to accelerate X-ray experiment-based discovery

A CHESS 2030 WORKSHOP

June 21-22, 2021

The Cornell High Energy Synchrotron Source will host a highly interdisciplinary online workshop identifying important fundamental questions related to artificial-intelligence-driven autonomous experimentation in combination X-ray based characterization techniques. The workshop will bring together leaders in the field from industry, academia, and the national labs to explore and articulate the most critical opportunities and challenges to exploiting artificial intelligence and automation for materials discovery.

Monday, June 21st

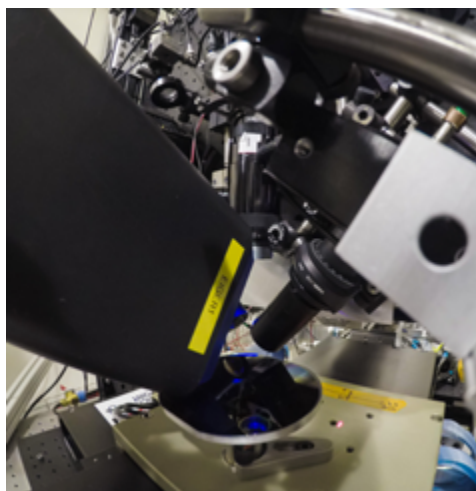
10:30 am-12:30 pm EST: **AI-Driven Experimental Science**

1:30 pm - 3:30 pm EST: **AI-Driven Exploration with Synchrotron Radiation**

Tuesday, June 22nd

10:30 am-12:30 pm EST: **Challenges & Opportunities in Autonomous Control**

1:30 pm - 3:30 pm EST: **Automation in Characterization and Data Analysis**



In addition to these four topical sessions, the workshop will include an "Idea Slam" consisting of contributed presentations, 3-5 minutes each.

Featuring invited presentations by:

Dan Allen, Brookhaven National Laboratory

Max Amsler, Cornell

Keith Brown, Boston U.

John Gregoire, Cal Tech

Jason Hattrick-Simpers, University of Toronto

Jesse Hopkins, Advanced Photon Source

Ron Jones, NIST

Howie Joress, NIST

Joseph Kline, NIST

Tammy Ma, Lawrence Livermore National Laboratory

Apurva Mehta, Stanford

Jed Pitera, IBM

Ichiro Takeuchi, U. of Maryland

Kevin Yager, Brookhaven National Laboratory

Peter Zwart, Berkely Lab

REGISTER TODAY!

