AI and ML in Materials Design and Discovery

NCI and Intersect Showcase

13 May 2021

12pm - 4pm (AEST)
4am - 8am (CEST)
7pm - 11pm, 12 May (PDT)

Four peak presentations will showcase state-of-the-art research activity aimed at speeding up materials design and discovery by integrating artificial intelligence (AI) and machine learning (ML) techniques.

Australian and international speakers reveal how large, high quality datasets coupled with machine learning analysis algorithms can play a vital role in the process of new material discovery.

The presentations will be of broad interest for scientists working into the field of HPC/Big Data in materials design and discovery, from advanced graduate research student level, to early career researchers and beyond.

CLICK HERE TO REGISTER FOR THIS EVENT



Prof Kristin Persson (UCB)

Data-Driven Materials Innovation and Design; Examples from the Materials Project



Prof Shyue Ping Ong (UCSD)

Accelerating Materials Design through Automation and Machine Learning



Prof Amanda Barnard (ANU)

Classification, Correlation and Causation of Defects in Graphene Oxide Nanomaterials



Prof Nicola Marzari (EPFL)

The great acceleration in the design and discovery of novel materials

Agenda:

12:00 – 12:05	Opening Remarks
12:05 – 12:55	**Prof Kristin Persson**
12:55 – 13:00	Question time
13:00 – 13:50	**Prof Shyue Ping Ong**
13:50 – 13:55	Question time
14:00 – 14:50	**Prof Amanda Barnard**
14:50 – 14:55	Question time
15:00 – 15:50	**Prof Nicola Marzari**
15:50 – 16:00	Question time

Chair:

Prof. Michelle Spencer (RMIT)

Co-organizers:

Dr. Meiyun Chang-Smith Graduate Education Program Manager, Intersect
Email: meiyun@intersect.org.au

Dr. Jingbo Wang
Training Manager, NCI
Email: jingbo.wang@anu.edu.au

EPFL · Australian National University · Berkeley University of California · UC San Diego · NCI Australia · Intersect