

## **Session Program**

**Apr 8 - 10, 2024**



# **Machine Learning Conference for X-Ray and Neutron-Based Experiments, Munich 2024**

## **Session 2**

Bürgerhaus Garching, Bürgerhaus 1 - Bürgerhaus Main ball room  
Bürgerplatz 9 and Telschowstraße 4, 85748 Garching bei München and MLZ Lichtenbergstr. 1 85747  
Garching

# Mon, April 8

11:00 AM

## Session 2

### Session

**Location:** Bürgerhaus Garching, Bürgerhaus 1 - Bürgerhaus Main ball room, Bürgerplatz 9 and Telschowstraße 4, 85748 Garching bei München and MLZ Lichtenbergstr. 1 85747 Garching

11:00 - 11:30

### Characterizing quantum materials with scattering experiments and machine learning

#### Speaker

Mingda Li

11:30 - 11:50

### Semi-supervised approaches to determining space groups and Bravais Lattices

#### Speaker

Dr William Ratcliff

11:50 - 12:10

### Machine learning assisted automation of single crystal neutron diffraction using ReTIA

#### Speaker

Huibo Cao

12:10 - 12:30

### Combined phase contrast imaging and diffraction at extreme conditions for determination of kinetic parameters

#### Speaker

Emma Ehrenreich-Petersen

12:30 - 12:50

### Fast and reliable crystal structure prediction using random search algorithms and machine learning interatomic potentials

#### Speaker

Pol Benítez Colominas

1:00 PM