

## **Session Program**

**Apr 8 - 10, 2024**



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

## **Session 4**

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

4:50 PM

## Session 4

### 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

16:50 - 17:20

### **MLExchange: A Machine Learning Platform for On-the-fly Data Analysis at Scientific User Facilities**

#### **Speaker**

Tanny Chavez

17:20 - 17:40

### **Learning many-body potential energy landscape for analysis of neutron scattering data**

#### **Speaker**

Gaurav Vishwakarma

17:40 - 18:00

### **Machine-learning tools for efficient analysis of X-ray scattering data from wood**

#### **Speaker**

Dr Paavo Penttilä

18:00 - 18:20

### **Weak-signal extraction enabled by deep-neural-network denoising of diffraction data**

#### **Speaker**

Mr Jens Oppliger

18:20 - 18:40

### **Machine Learning-Based Reconstruction of Quantitative Compositional Maps in Complex Microstructures: Fusion of Neutron and X-ray Tomography with Raman Analysis**

#### **Speaker**

Dr Mahdiah Shakoorioskooie

6:40 PM