



*The NSF AI Institute for*  
Artificial Intelligence and Fundamental Interactions



# IAIFI-AIMLAC Workshop Day 1

10:30-11:00 am (Kolker Room, 26-414)

Welcome from Jesse Thaler (IAIFI Director), Mike Williams (IAIFI Deputy Director), and Phiala Shanahan (IAIFI Senior Investigator)

1:00-4:30 pm (Kolker Room, 26-414)

Short Talks (30 minutes) – IAIFI introduced by Phiala Shanahan; AIMLAC introduced by Gert Aarts

- Ge Yang (IAIFI Fellow) – Correcting the Spectral-bias of Neural Value Approximation
- Siddharth Mishra-Sharma (IAIFI Fellow) - Simulation-based inference for astrophysical dark matter searches
- Di Luo (IAIFI Fellow) – Machine Learning for Quantum Science
- Biagio Lucini (Swansea) – The Quantum Field-Theoretic Learning Machine
- Maciej Glowacki (Bristol) – Deep learning aided New Physics Searches
- Sophie Sadler (Swansea) – Explainability in Graph-based Machine Learning and Social Network Analysis

4:30-5:30 pm (IAIFI Penthouse, 26-648)

Reception with refreshments