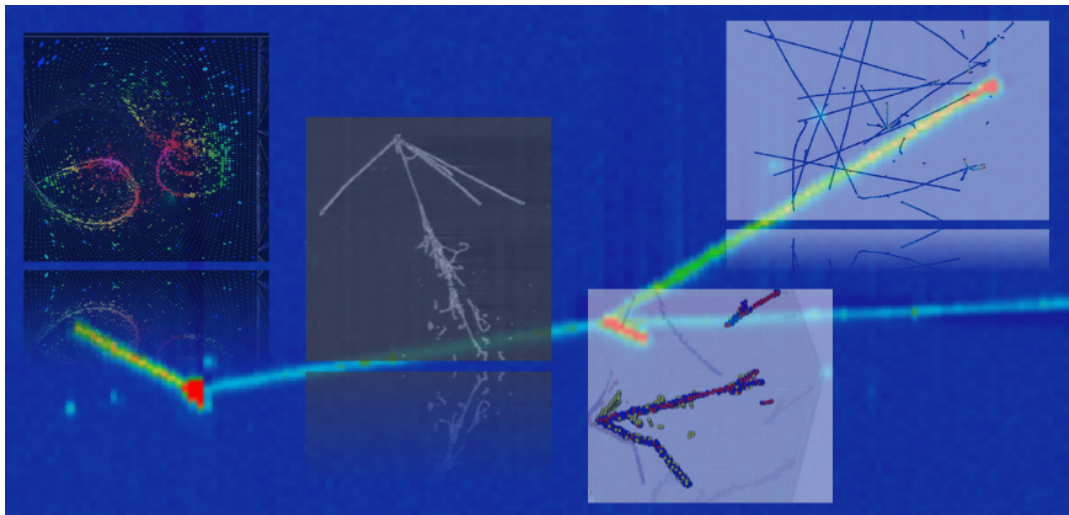


Session Program

15-19 Jun 2026



Neutrino Physics and Machine Learning 2026

Methods: Self-Supervised Learning & Foundation Models

UC Irvine, The Interdisciplinary Science and Engineering Building
419 Physical Sciences Quad, Irvine, CA 92697

Wednesday 17 June

09:00

Methods: Self-Supervised Learning & Foundation Models

Session |

Location: UC Irvine, The Interdisciplinary Science and Engineering Building , 419 Physical Sciences Quad, Irvine, CA 92697

09:00–09:30

SPINE++: Iterative Learning Approach Boosts Semantic Segmentation and Instance Clustering in LArTPC

Speaker

Junjie Xia

09:30–09:40

Q/A

09:40–10:10

Toward a point cloud foundation model that learns physics across detection mechanisms

Speaker

Sam Young

10:10–10:20

Q/A

10:20–10:40

Coffee

10:40–10:55

Towards Self-Supervised Optical Signal Reconstruction in Liquid Argon Time Projection Chambers

Speaker

Carolyn Smith

10:55–11:00

Q/A

11:00–11:20

Adapting Vision-Language Models for Neutrino Event Classification in High-Energy Physics

Speaker

Mr Dikshant Sagar

11:20–11:25

Q/A

11:25