

DeepLearn 2023 Spring

9th INTERNATIONAL SCHOOL ON DEEP LEARNING

Bari, Italy · April 03-07, 2023

Keynotes



Vipin Kumar
University of Minnesota
Knowledge Guided Deep Learning: A Framework for Accelerating Scientific Discovery



William S. Noble
University of Washington
Deep Learning Applications in Mass Spectrometry Proteomics and Single-Cell Genomics



Emma Tolley
Swiss Federal Institute of Technology Lausanne
Physics-Informed Deep Learning

Courses (to be completed)



Patrick Gallinari
Sorbonne University
[intermediate] Physics Aware Deep Learning for Modeling Dynamical Systems



Sergei V. Gleyzer
University of Alabama
[introductory/intermediate] Machine Learning Fundamentals and Their Applications to Very Large Scientific Data: Rare Signal and Feature Extraction, End-to-End Deep Learning, Uncertainty Estimation and Realtime Machine Learning Applications in Software and Hardware



Jacob Goldberger
Bar-Ilan University
[introductory/intermediate] Latent Random Variables, Generative Models and Variational Autoencoders



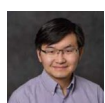
Christoph Lampert
Institute of Science and Technology Austria
[intermediate] Training with Fairness and Robustness Guarantees



Yingbin Liang
Ohio State University
[intermediate/advanced] Bilevel Optimization and Applications in Deep Learning



Miaoyuan Liu
Purdue University
[introductory/intermediate] Edge of the Future: AI in Real Time Systems of Scientific Instruments



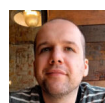
Xiaoming Liu
Michigan State University
[intermediate] Deep Learning for Trustworthy Biometrics



Michael Mahoney
University of California Berkeley
[intermediate] Practical Neural Network Theory



Liza Mijovic
University of Edinburgh
[introductory/intermediate] Deep Learning & the Higgs Boson: Classification with Fully Connected and Adversarial Networks



Razvan Pascanu
DeepMind
[intermediate] Understanding Learning Dynamics in Deep Learning and Deep Reinforcement Learning



Bhiksha Raj
Carnegie Mellon University
[introductory] An Introduction to Quantum Neural Networks [with Rita Singh and Daniel Justice]



Bart ter Haar Romeny
Eindhoven University of Technology
[intermediate/advanced] Explainable AI from First Principles



Tara Sainath
Google
[advanced] E2E Speech Recognition



Martin Schultz
Research Centre Jülich
[introductory/intermediate] Deep Learning for Air Quality, Weather and Climate



Hao Su
University of California San Diego
[intermediate/advanced] Neural Representation for 3D Capturing



Adi Laurentiu Tarca
Wayne State University
[intermediate] Machine Learning for Cross-Sectional and Longitudinal Omics Studies



Zhi Tian
George Mason University
[intermediate] Communication-Efficient and Robust Distributed Learning



Michalis Vazirgiannis
Polytechnic Institute of Paris
[intermediate/advanced] Graph Machine Learning with GNNs and Applications



Atlas Wang
University of Texas Austin
[intermediate] Sparse Neural Networks: From Practice to Theory



Guo-Wei Wei
Michigan State University
[introductory/advanced] Discovering the Mechanisms of SARS-CoV-2 Evolution and Transmission



Lei Xing
Stanford University
[intermediate] Deep Learning for Medical Imaging and Genomic Data Processing: from Data Acquisition, Analysis, to Biomedical Applications



Xiaowei Xu
University of Arkansas Little Rock
[intermediate/advanced] Deep Learning Language Models and Causal Inference

More info: <https://irdta.eu/deeplearn/2023sp>

