

# DeepLearn 2023 Summer

## 10th INTERNATIONAL GRAN CANARIA SCHOOL ON DEEP LEARNING

Las Palmas de Gran Canaria, Spain · July 17-21, 2023

### Keynotes



**Alex Voznyy**  
**University of Toronto**  
Comparison of Graph Neural Network Architectures for Predicting the Electronic Structure of Molecules and Solids



**Aidong Zhang**  
**University of Virginia**  
Concept-Based Models for Robust and Interpretable Deep Learning

### Courses (to be completed)



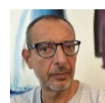
**Eneko Agirre**  
**University of the Basque Country**  
[introductory/intermediate] Natural Language Processing in the Large Language Model Era



**Pierre Baldi**  
**University of California Irvine**  
[intermediate/advanced] Deep Learning in Science



**Daniel Cremers**  
**Technical University of Munich**  
[intermediate] Deep Networks for 3D Computer Vision



**Stefano Giagu**  
**Sapienza University of Rome**  
[introductory/intermediate] Quantum Machine Learning on Parameterized Quantum Circuits



**Georgios Giannakis**  
**University of Minnesota**  
tba



**Tae-Kyun Kim**  
**Korea Advanced Institute of Science and Technology**  
[intermediate/advanced] Deep 3D Pose Estimation



**Marcus Liwicki**  
**Luleå University of Technology**  
[intermediate/advanced] Methods for Learning with Few Data



**Chen Change Loy**  
**Nanyang Technological University**  
[introductory/intermediate] Image and Video Restoration



**Ivan Oseledets**  
**Skolkovo Institute of Science and Technology**  
[introductory/intermediate] Tensor Methods for Approximation of High-Dimensional Arrays and Their Applications in Mach...



**Deepak Pathak**  
**Carnegie Mellon University**  
[intermediate/advanced] Continually Improving Agents for Generalization in the Wild



**Kaushik Roy**  
**Purdue University**  
[introductory/advanced] Neuromorphic Computing



**Carlo Sansone**  
**University of Naples Federico II**  
TBA



**Björn Schuller**  
**Imperial College London**  
[introductory/intermediate] Deep Multimedia Processing



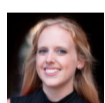
**Amos Storkey**  
**University of Edinburgh**  
[intermediate] Meta-Learning and Contrastive Learning for Robust Representations



**Ponnuthurai N. Suganthan**  
**Qatar University**  
[introductory/intermediate] Randomization-Based Deep and Shallow Learning Algorithms and Architectures



**Jiliang Tang**  
**Michigan State University**  
[introductory/advanced] Graph Neural Networks: Models, Applications and Advances



**Savannah Thais**  
**Columbia University**  
[intermediate] Applications of Graph Neural Networks: Physical and Societal Systems



**Z. Jane Wang**  
**University of British Columbia**  
[introductory/intermediate] Adversarial Deep Learning in Digital Image Security & Forensics



**Andrew Gordon Wilson**  
**New York University**  
tba



**Li Xiong**  
**Emory University**  
[introductory] Deep Learning and Privacy Enhancing Technology



**Lihi Zelnik-Manor**  
**Technion - Israel Institute of Technology**  
[introductory] Introduction to Computer Vision and the Ethical Questions It Raises

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



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