

# DeepLearn 2022 Winter

## 5th INTERNATIONAL SCHOOL ON DEEP LEARNING

Bournemouth, UK · January 17-21, 2022

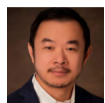
### Keynotes



**Yi Ma**  
University of California, Berkeley  
White-box Deep (Convolution) Networks from First Principles



**Daphna Weinshall**  
Hebrew University of Jerusalem  
Curriculum Learning in Deep Networks



**Eric P. Xing**  
Carnegie Mellon University  
TBA

### Courses



**Peter L. Bartlett**  
University of California, Berkeley  
[intermediate/advanced] Deep Learning: A Statistical Viewpoint



**Joachim M. Buhmann**  
Swiss Federal Institute of Technology, Zürich  
[introductory/advanced] Algorithm Validation for Data Science



**Nitesh Chawla**  
University of Notre Dame  
[introductory/intermediate] Graph Representation Learning



**Seungjin Choi**  
BARO AI Academy  
[introductory/intermediate] Bayesian Optimization over Continuous, Discrete, or Hybrid Spaces



**Sumit Chopra**  
New York University  
[intermediate] Deep Learning in Healthcare



**Rüdiger Dillmann**  
Karlsruhe Institute of Technology  
[introductory/intermediate] Building Brains for Robots



**Marco Duarte**  
University of Massachusetts, Amherst  
[introductory/intermediate] Explainable Machine Learning



**Charles Elkan**  
University of California, San Diego  
[intermediate] AI and ML Applications in Finance and Retail



**Rob Fergus**  
New York University  
[intermediate/advanced] Self-supervised Learning of Visual Representations for Recognition and Interaction



**João Gama**  
University of Porto  
[introductory] Learning from Data Streams: Challenges, Issues, and Opportunities



**Mark Girolami**  
University of Cambridge  
[introductory/intermediate] Computational Statistics and Machine Learning



**Claus Horn**  
Zurich University of Applied Sciences  
[intermediate] Deep Learning for Biotechnology



**Nathalie Japkowicz**  
American University  
[intermediate/advanced] Learning from Class Imbalances



**Gregor Kasieczka**  
University of Hamburg  
[introductory/intermediate] Deep Learning Fundamental Physics: Rare Signals, Unsupervised Anomaly Detection, and Generative Models



**Karen Livescu**  
Toyota Technological Institute at Chicago  
[intermediate/advanced] Speech Processing: Automatic Speech Recognition and beyond



**David McAllester**  
Toyota Technological Institute at Chicago  
[intermediate/advanced] Information Theory for Deep Learning



**Dhableswar K. Panda**  
Ohio State University  
[intermediate] Exploiting High-performance Computing for Deep Learning: Why and How?



**Tomaso Poggio**  
Massachusetts Institute of Technology  
[advanced] Deep Learning: Theoretical Observations



**Fabio Roli**  
University of Cagliari  
[introductory/intermediate] Adversarial Machine Learning



**Jude W. Shavlik**  
University of Wisconsin, Madison  
[introductory/intermediate] Advising, Explaining, Distilling, and Quantizing Deep Neural Networks



**Kunal Talwar**  
Apple  
[introductory/intermediate] Foundations of Differentially Private Learning



**Lyle Ungar**  
University of Pennsylvania  
[intermediate] Natural Language Processing using Deep Learning



**Yu-Dong Zhang**  
University of Leicester  
[introductory/intermediate] Convolutional Neural Networks and Their Applications to COVID-19 Diagnosis

More info: <https://irdta.eu/deeplearn2022w>



**Bournemouth University**  
Department of Computing and Informatics



**Institute for Research Development,  
Training and Advice (IRDTA)**  
Brussels/London