

Inserm Workshop 266

Introduction à l'Apprentissage automatique de la Biologie à la Santé Introduction to Machine Learning from Biology to Health

11-13 octobre 2021 ■ **October 11-13 2021** ■ on Zoom

Lundi 11 octobre 2021 ■ **Monday October, 11th 2021**

PDT	EDT	CEST	SESSION I: Introduction to Machine Learning
07:00 07:15	10:00 10:15	16:00 16:15	Welcome and presentation by the organizers
07:00 07:15	10:15 17:00	16:15 17:00	Introduction 1 to Machine Learning Chloé-Agathe Azencott (MINES ParisTech / Institut Curie, Paris, France)
08:00 08:15	11:00 11:45	17:00 17:45	Introduction 2 to Machine Learning Liva Ralaivola (LIS, Marseille, France)
08:45 09:00	11:45 12:00	17:45 18:00	15' Break
09:00 09:45	12:00 12:45	18:00 18:45	Deep Learning for System Biology Trey Ideker (UCSD, California, USA)
09:45 10:15	12:45 13:15	18:45 19:15	Meet the speakers

Mardi 12 octobre 2021 ■ **Tuesday October, 12th 2021**

PDT	EDT	CEST	SESSION II: Machine Learning for Genomics
00:15 01:00	03:15 04:00	09:15 10:00	Machine Learning methods for modelling regulatory sequence Laurent Bréhélin (LIRMM, Toulouse, France)
01:00 01:45	04:00 04:45	10:00 10:45	Analysis Single Cell Data with ML Oliver Stegle (DKFZ, Germany)
01:45 02:00	04:45 05:00	10:45 11:00	15' Break
02:00 02:45	05:00 05:45	11:00 11:45	Deep learning applied to Gene Expression analyses Aleksej Zelezniak (Chalmers, Sweden)
02:45 03:15	05:45 06:15	11:45 12:15	Meet the speakers

PDT	EDT	CEST	SESSION II: Machine Learning for function prediction
05:00 05:45	08:00 08:45	14:00 14:45	Finding protein function with machine Learning Burkhard Rost (Technical University of Munich, Germany)
05:45 06:30	08:45 09:30	14:45 15:30	Protein-RNA interaction Annalisa Marsico (Institute of Computational Biology, Helmholtz Zentrum München, Germany)
06:30 06:45	09:30 09:45	15:30 15:45	15' Break
06:45 07:30	09:45 10:30	15:45 16:30	Using Deep neural network in clinical data sharing Casey S. Greene (University Pennsylvania, USA)
07:30 08:00	10:30 11:00	16:30 17:00	Meet the speakers

Mercredi 13 octobre 2021 ■ **Wednesday October, 13th 2021**

PDT	EDT	CEST	SESSION IV : Machine Learning for Imaging and Language
00:15 01:00	03:15 04:00	09:15 10:00	Applying deep learning to biomedical imaging Christophe Zimmer (Institut Pasteur, Paris, France)
01:00 01:45	04:00 04:45	10:00 10:45	Learning meaningful representations of life Paul Villoutreix (LIS, Marseille, France)
01:45 02:00	04:45 05:00	10:45 11:00	15' Break
02:00 02:45	05:00 05:45	11:00 11:45	Deciphering the neural and acoustical bases of communication with data-driven methods Etienne Thoret (Institute of Language, Communication and the Brain, Aix-en-Provence, France)
02:45 03:15	05:45 06:15	11:45 12:15	Meet the speakers