

Conférence Doctorale AI for the Sciences

Programme détaillé



Programme Transverse
DATA

Salle Raymond Aron - Université Dauphine PSL

Place du Maréchal de Lattre de Tassigny
75775, Paris Cedex 16

		Mercredi 15 mai 2024		Jeudi 16 mai 2024	
		Nom	Titre	Nom	Titre
08:30	Accueil café				
09:00	Keynote Speaker	Patrick Gallinari Université Sorbonne, <i>Institut des systèmes intelligents et robotique (ISIR)</i>	Physics Aware Deep Learning	Phillipe Nghe ESPCI-PSL, <i>Laboratory of Biophysics and Evolution, CNRS</i>	Generating self-reproducing RNAs
10:00	Short talk	Alessandro Pasqui Collège de France-PSL <i>Centre interdisciplinaire de recherche en biologie (CIRB)</i>	Learning the optimal parameters governing confluent tissues to shape their emergent properties	Pablo Jeken-Rico Mines Paris- PSL <i>Centre de mise en forme des matériaux (CEMEF)</i>	Predicting Thrombus Formation Risk in Kawasaki Aneurysms using Machine Learning

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10:20	Short talk	Amandine Brunetto Mines Paris - PSL <i>Centre for Robotic (CAOR)</i>	Audio-Visual Learning for Perception Enhancement	Chiara Semenzin ENS-PSL	A computational approach to study dolphin acoustic communication
10:40	Pause				
11:10	Short talk	Matthieu Blanke ENS-PSL	Interpretable meta-learning of physical systems	Ihab Bendidi ENS-PSL <i>Centre de biologie computationnelle</i>	ChAda-ViT: Channel Adaptive Attention for Joint Representation Learning of Heterogeneous Microscopy Images
11:30	Short talk	Blaise Delattre Dauphine-PSL <i>Lamsade</i>	From Dynamical System to Robustness in Deep Learning	Letizia Lamperti EPHE-PSL <i>Centre d'Ecologie Fonctionnelle Evolutive (CEFE)</i>	Inferring ecosystem properties from eDNA sequences with interpretable Deep Learning
11:50	Short talk	Claire Bizon-Monroc ENS-PSL	A multi-agent reinforcement learning approach to wind farm control	Zakarya Benayad ENS-PSL	Enhanced conformational space exploration for biomolecules using denoising diffusion probabilistic models
12:10	Lunch	Posters Session			
14:00	Keynote Speaker	Tom Charnock Institut d'Astrophysique de Paris	Bayesian deep learning for cosmology and gravitational waves	Jérôme Lang Université Paris Dauphine-PSL, CNRS, LAMSADE	From AI to Computational Social Choice
15:00	Short talk	Melissa Alzate Banguero ESPCI - PSL <i>Laboratoire de Physique et d'Etude des Matériaux (LPEM)</i>	Towards neuromorphic computing: VO2 transition dynamics	Daniele Cavalli ENS-PSL <i>Chaire géopolitique du risque</i>	With and Beyond the Human: AI as Infrastructural Cognition

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15:20	Short talk	Alexandre Verine Dauphine-PSL <i>Lamsade</i>	Precision and Recall for generative models	Stefano Vrizzi ENS-PSL <i>Laboratoire de Neurosciences cognitives</i>	The market, bottom-up: a multi-agent reinforcement learning model to quantify the impact of individual cognitive traits on stock price formation
15:40	Pause				
16:10	Short talk	Yuke Xie Mines Paris - PSL <i>Centre de Géosciences</i>	Uncertainty quantification in computational inverse problem using deep generative model	Pierre Orhan ENS-PSL <i>Laboratoire des Systèmes Perceptifs</i>	Emergence of in-context structure detection through self-supervised learning
16:30	Short talk	Maylis Peyret Dauphine-PSL <i>LEDa- Centre de Géopolitique de l'Energie et des Matières Premières (CGEMP)</i>	Analyzing Metal Price Forecasts: A Comparative Study of VECM and XGBoost Models	Linnea Evanson ENS-PSL	Dynamics of speech representations in the brain of human children
16:50	Cocktail	Posters Session		Colin Brisson EPHE-PSL <i>CRCAO - Centre de recherche sur les civilisations d'Asie orientale.</i>	Toward Mass Digitization of China's Literary Heritage