

**2024 CRAQ Summer School:
Introduction to Machine Learning for Astrophysical Data Analysis**

MIL Campus UdeM, A-1502.1

Time	26 jun 2024	27 jun 2024	28 jun 2024
8:30-9:00am	Danish and Coffee	Danish and Coffee	Danish and Coffee
9:00-12:30pm (coffee break 10:20-10:40am)	Yashar Hezaveh (UdeM) Introduction to Statistics and Inference	John Ruan (Bishop's) Applications of ML in Multi-Messenger Astrophysics	François Lanusse (CNRS & Saclay) Neural architectures for astronomical data
	Coffee break		Coffee break
	Connor Stone (UdeM) Deep Dive into Linear Regression		Siamak Ravanbakhsh (McGill) Symmetries and Geometric Deep Learning
12:30-1:30pm	Networking Lunch (provided)	Lunch	Lunch
1:30-4:30pm (coffee break 2:50-3:10pm)	Ronan Legin (UdeM) Introduction to Neural Networks and Deep Learning	Laurence Perreault-Levasseur (UdeM) Intro to Diffusion and Exemples of Applications	Christian Kragh Jespersen (Princeton) Graph Neural Networks and Applications
	Coffee break		
	Yashar Hezaveh (UdeM) Uncertainty Quantification with Machine Learning		