

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

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)	Connor Stone (UdeM) Statistics, Inference, and Deep Dive into Linear Regression	John Ruan (Bishop's) Application of ML in Multi-Messenger Astrophysics	Laurence Perreault-Levasseur (UdeM) Intro to Diffusion, High-Dimensional Inference, and Exemples of Applications
	Coffee break		
	Ronan Legin (UdeM) Introduction to Neural Networks and Deep Learning		
12:30-1:30pm	Networking Lunch (provided)	Lunch	Lunch
1:30-4:30pm (coffee break 2:50-3:10pm)	Yashar Hezaveh (UdeM) Uncertainty Quantification with Machne Learning	François Lanusse (CNRS & Saclay) Neural architectures for astronomical data	Chrstian Jespersen (Princeton) Graph Neural Networks and Applications