

Analytics, Data Science Decision Making Summer School 2023
DRAFT PROGRAMME (subject to change)

Monday, 24 July 2023					
0830-0930	Registration (STEM building)				
Focus	Cross theme	Cross theme	BCI	R	Machine Learning
0930-1030	Introduction to Python	Ethics, Data Protection, Security, and Liability in the Age of Big Data	A Hands-On Introduction to Non-Invasive Neural Interfaces	Intro to R	Intro to ML
1030-1100	Break				
1100-1230	Introduction to Python	Ethics, Data Protection, Security, and Liability	A Hands-On Introduction to Non-Invasive Neural Interfaces	Intro to R	Intro to ML
1230-1330	Lunch break				
1330-1500	Introduction to Python	Ethics, Data Protection, Security, and Liability	A Hands-On Introduction to Non-Invasive Neural Interfaces	Intro to R	Intro to ML
1500-1530	Break				
1530 -1700	Introduction to Python	Ethics, Data Protection, Security, and Liability	A Hands-On Introduction to Non-Invasive Neural Interfaces	Intro to R	Intro to ML
1730-1900	Welcome reception (Lakeside Room)				

Tuesday, 25 July 2023					
Focus	Cross theme	Deep learning	BCI	R	Machine Learning
0930-1030	Intro to Bayesian Statistics using Winbugs (Probabilistic Programming)	Intro to Tensorflow and Deep Learning	A Hands-On Introduction to Non-Invasive Neural Interfaces	Introduction to Data Visualisation Using R	Tree-based Models for Machine Learning in Data Analytics
1030-1100	Break				
1100-1230	Intro to Bayesian Statistics using Winbugs (Probabilistic Programming)	Intro to Tensorflow and Deep Learning	A Hands-On Introduction to Non-Invasive Neural Interfaces	Introduction to Data Visualisation Using R	Tree-based Models for Machine Learning in Data Analytics
1230-1330	Lunch break				
1330-1500	Intro to Bayesian Statistics using Winbugs (Probabilistic Programming)	Intro to Tensorflow and Deep Learning	A Hands-On Introduction to Non-Invasive Neural Interfaces	Introduction to Data Visualisation Using R	Tree-based Models for Machine Learning in Data Analytics
1500-1530	Break				
1530 -1700	Intro to Bayesian Statistics using Winbugs (Probabilistic Programming)	Intro to Tensorflow and Deep Learning	A Hands-On Introduction to Non-Invasive Neural Interfaces	Introduction to Data Visualisation Using R	Tree-based Models for Machine Learning in Data Analytics
1730-1815	Keynote speech TBC (EBS 2.2)				

Wednesday, 26 July 2023					
Focus	Optimisation	Deep learning	BCI	R	Machine Learning
0930-1030	Synergy of Optimisation and Machine Learning 1	Recurrent neural networks with Keras	A Hands-On Introduction to Non-Invasive Neural Interfaces	Bayesian Analysis in R 1	Machine learning for causal inference from observational data
1030-1100	Break				
1100-1230	Synergy of Optimisation and Machine Learning 1	Recurrent neural networks with Keras	A Hands-On Introduction to Non-Invasive Neural Interfaces	Bayesian Analysis in R 1	Machine learning for causal inference from observational data
1230-1330	Lunch break				
1330-1500	Synergy of Optimisation and Machine Learning 1	Recurrent neural networks with Keras	A Hands-On Introduction to Non-Invasive Neural Interfaces	Bayesian Analysis in R 1	Machine learning for causal inference from observational data
1500-1530	Break				
1530 -1700	Synergy of Optimisation and Machine Learning 1	Recurrent neural networks with Keras	A Hands-On Introduction to Non-Invasive Neural Interfaces	Bayesian Analysis in R 1	Machine learning for causal inference from observational data
1830-2100	Dinner at Wivenhoe House Hotel				

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Thursday, 27 July 2023					
Focus	Optimisation	Deep learning	BCI	R	Cross theme
0930-1030	Synergy of Optimisation and Machine Learning 2	Learning Under Different Training and Testing Distributions	A Hands-On Introduction to Non-Invasive Neural Interfaces	Bayesian Analysis in R 2	Intro to Startups for Data Scientists, Snalysts and Machine Learning Engineers
1030-1100	Break				
1100-1230	Synergy of Optimisation and Machine Learning 2	Learning Under Different Training and Testing Distributions	A Hands-On Introduction to Non-Invasive Neural Interfaces	Bayesian Analysis in R 2	Intro to Startups for Data Scientists, Snalysts and Machine Learning Engineers
1230-1330	Lunch break				
1330-1500	Synergy of Optimisation and Machine Learning 2	Learning Under Different Training and Testing Distributions	A Hands-On Introduction to Non-Invasive Neural Interfaces	Bayesian Analysis in R 2	Intro to Startups for Data Scientists, Snalysts and Machine Learning Engineers
1500-1530	Break				
1530 -1700	Synergy of Optimisation and Machine Learning 2	Learning Under Different Training and Testing Distributions	A Hands-On Introduction to Non-Invasive Neural Interfaces	Bayesian Analysis in R 2	Intro to Startups for Data Scientists, Snalysts and Machine Learning Engineers

Friday, 28 July 2023					
Focus	Cross theme	Cross theme	Cross theme	R	Cross theme
0930-1030	Introduction to Network Science	Federated Learning	Empowerment	GIS Systems in R	Best Practice Analytics
1030-1100	Break				
1100-1230	Introduction to Network Science	Federated Learning	Empowerment	GIS Systems in R	Best Practice Analytics
1230-1330	Lunch break				
1330-1500	Introduction to Network Science	Federated Learning	Empowerment	GIS Systems in R	Best Practice Analytics
1500-1530	Break				
1530 -1700	Introduction to Network Science	Federated Learning	Empowerment	GIS Systems in R	Best Practice Analytics