NIHR | Applied Research Collaboration South West Peninsula

HSMA 4 Key Dates

Note : AM training sessions run 0930-1230, and PM sessions run 1330-1630
If no AM or PM is specified, the training session is a full day session that spans both 0930-1230 and 1330-1630

Key :

Core Training Session	
Option Training Session	
Trainee Mentor Scheme Exclusive Session	
Event / Meeting	
Deadline / Milestone / Panel Meeting (HSMAs not required)	

June 2021

16/06/21 Virtual Open Day and Applications for HSMA 4 Open

July 2021

20/07/21 Trainee Mentor Scheme : Meet the Trainee Mentor Applicants (1000-1130) — *For applicants to the Trainee Mentor Scheme only*
28/07/21 Applications for HSMA 4 Close

August 2021

04/08/21 HSMA 4 Application Panel Decision Meeting
11/08/21 Applicants notified whether they were successful by this date

September 2021

29/09/21 HSMA 3 Virtual Showcase Event (0930-1530) — *All welcome to this event to hear about the project work of our HSMAs in HSMA 3*

October 2021

Date	Session Name	Trainer	Session Code	Core / Option	Module	Dependencies (for Option modules)
05/10/21	*HSMA 4 Phase 1 Commencement*					
05/10/21	Introduction to Operational Research and Data Science (AM)	Dan Chalk	1A	CORE	M1 – Introduction to OR, Data Science and Programming	
	Principles of Programming (PM)	Dan Chalk	1B	CORE	M1 – Introduction to OR, Data Science and Programming	
07/10/21	Spyder, Jupyter Notebooks and Google CoLab (AM)	Dan Chalk	2A	CORE	M2 – Open Source Collaborative Development	
12/10/21	Python Programming Part 1	Dan Chalk	1C	CORE	M1 – Introduction to OR, Data Science and Programming	
19/10/21	Python Programming Part 2	Dan Chalk	1D	CORE	M1 – Introduction to OR, Data Science and Programming	
26/10/21	Python Programming Part 3	Dan Chalk	1E	CORE	M1 – Introduction to OR, Data Science and Programming	
28/10/21	Version Control, GitHub and Docker (AM)	Dan Chalk	2B	CORE	M2 – Open Source Collaborative Development	

November 2021

Date	Session Name	Trainer	Session Code	Core / Option	Module	Dependencies
02/11/21	Introduction to Discrete Event Simulation (AM)	Dan Chalk	3A	CORE	M3 – Modelling Pathway and Queuing Problems	
	SimPy for Discrete Event Simulation (Part 1) (PM)	Dan Chalk	3B	CORE	M3 – Modelling Pathway and Queuing Problems	
09/11/21	Introduction to Network Analysis (AM)	Sean Manzi	4A	CORE	M4 – Modelling Whole Systems	
	Introduction to AI and Machine Learning (PM)	Dan Chalk	7A	CORE	M7 – Machine Learning	
16/11/21	Introduction to Modelling Geographic Problems (AM)	Dan Chalk, Kerry Pearn	5A	CORE	M5 – Geographic Modelling and Visualisation	
	Introduction to Natural Language Processing (PM)	Dan Chalk	8A	CORE	M8 – Natural Language Processing	
17/11/21	SimPy for Discrete Event Simulation (Part 2) (AM)	Dan Chalk	3C	CORE	M3 – Modelling Pathway and Queuing Problems	
	Cellular Automata (PM)	Dan Chalk	6A	CORE	M6 – Modelling Behaviour	
18/11/21	Geographic Modelling Algorithms and Evolutionary Computing (Part 1) (AM)	Dan Chalk, Kerry Pearn	5B	OPTION	M5 – Geographic Modelling and Visualisation	5A
	Geographic Modelling Algorithms and Evolutionary Computing (Part 2) (PM)	Dan Chalk, Kerry Pearn	5C	OPTION	M5 – Geographic Modelling and Visualisation	5A, 5B
23/11/21	Introduction to Forecasting (AM)	Tom Monks	9A	CORE	M9 – Forecasting	
	Ethics in AI (PM)	Dan Chalk	7B	CORE	M7 – Machine Learning	
24/11/21	Machine Learning – Who Would Survive the Titanic? (AM)	Dan Chalk	7C	OPTION	M7 – Machine Learning	7A, 7B
	Geographic Visualisation using QGIS (PM)	Kerry Pearn	5D	OPTION	M5 – Geographic Modelling and Visualisation	5A
25/11/21	Deeper into Machine Learning – Introduction to Neural Networks (AM)	Dan Chalk	7D	OPTION	M7 – Machine Learning	7A, 7B, 7C
	Synthetic Data (PM)	Dan Chalk	7E	OPTION	M7 – Machine Learning	7A, 7B, 7C, 7D
29/11/21	HSMA 4 Phase 2 Pitches and Panel Session (1000-1300) — *All HSMAs to attend to present their pitches*					
30/11/21	Named Entity Recognition (AM)	Dan Chalk	8B	OPTION	M8 – Natural Language Processing	8A
	Sentiment Analysis (PM)	Dan Chalk	8C	OPTION	M8 – Natural Language Processing	8A, 8B

December 2021

Date	Session Name	Trainer	Session Code	Core / Option	Module	Dependencies
01/12/21	Getting to Grips with Programming in R	Sean Manzi	1F	CORE	M1 – Introduction to OR, Data Science and Programming	
02/12/21	Advanced R	Sean Manzi	1G	OPTION – 6	M1 – Introduction to OR, Data Science and Programming	1F
07/12/21	Geopandas (AM)	Kerry Pearn	5E	OPTION	M5 – Geographic Modelling and Visualisation	5A, 5D
	System Dynamics (PM)	Dan Chalk	4B	CORE	M4 – Modelling Whole Systems	
08/12/21	Relation Extraction (AM)	Dan Chalk	8D	OPTION	M8 – Natural Language Processing	8A, 8B, 8C
	A Generic ED Model Using R (PM)	Luca Grieco	3D	CORE	M3 – Modelling Pathway and Queuing Problems	
09/12/21	Advanced Network Analysis (Part 1)	Sean Manzi	4C	OPTION	M4 – Modelling Whole Systems	4A
	Advanced Network Analysis (Part 2)	Sean Manzi	4D	OPTION	M4 – Modelling Whole Systems	4A, 4C
13/12/21	Successful Phase 2 pitches announced by this date					
14/12/21	Simple Forecasting Methods (AM)	Tom Monks	9B	OPTION	M9 – Forecasting	9A
	Advanced Forecasting Methods (PM)	Tom Monks	9C	OPTION	M9 – Forecasting	9A, 9B
15/12/21	Transformers and Pre-Trained Contextualised Word Embedding	Dan Chalk	8E	OPTION – 6	M8 – Natural Language Processing	8A, 8B, 8C, 8D, 8E
16/12/21	Agent Based Simulation using MESA (Part 1) (AM)	Dan Chalk	6B	OPTION	M6 – Modelling Behaviour	6A
	Agent Based Simulation using MESA (Part 2) (PM)	Dan Chalk	6C	OPTION	M6 – Modelling Behaviour	6A, 6B

January 2022

17/01/22 *HSMA 4 Phase 2 Commencement*
18/01/22 Trainee Mentor Scheme : Training Session (0930-1230) — *For Trainee Mentor Scheme participants only*
26/01/22 Learning Set Meeting 1 (1100-1300)

February 2022

23/02/22 Learning Set Meeting 2 (1100-1300)

March 2022

23/03/22 Learning Set Meeting 3 (1100-1300)

April 2022

27/04/22 Learning Set Meeting 4 (1100-1300)

May 2022

25/05/22 Learning Set Meeting 5 (1100-1300)

June 2022

29/06/22 Learning Set Meeting 6 (1100-1300)

July 2022

27/06/22 Learning Set Meeting 7 (1100-1300)

August 2022

24/08/22 Learning Set Meeting 8 (1100-1300)

September 2022

28/09/22 HSMA 4 Final Presentation Event (FULL DAY, Times TBC)