IWR Summer School 2024 Applied Modelling of Climate-sensitive Infectious Disease

Program

Time slot	Session	Instructors
	Day 1: Introduction	
08:30-09:00	Registration	
09:00-09:45	Welcome and Official Opening.	Michael Winckler and
	Introduction round and	Joacim Rocklöv
	logistics of the applied	
	modelling of climate-sensitive	
	infectious disease summer	
	course (45min)	
09:45-10:30	Lecture: Introduction to	Joacim Rocklöv
	climate-sensitive diseases and	
	modelling (45min)	
	Coffee break	
11:00-11:45	Lecture: Introduction to	Stella Dafka
	climate science (45min)	
12:00-12:45	Presentation : Introduction to	Charles Hatfield
	spatial data science for climate	
	data (45min)	
	Lunch	
14:00-17:00	Computer tutorial: Climate	Stella Dafka, Pratik Singh,
	data + Coffee break (3h)	Sumet Khumphairan, and
		Munira Omar
	Reception	
20.00.10.00	Day 2: Statistical models	
09:00-10:00	Lecture: Statistical methods I	Joacim Rocklöv
10.15.10.15	(60min)	
10:15-10:45	Presentation: Distributed Lag	Prasad Liyanage
	Models (30min)	
44 45 42 45	Coffee break	
11:15-12:15	Lecture: Statistical methods II	Jonas Walin
	(60min)	
12.45.46.45	Lunch	Lancar Branch Branch Giller
13:15-16:15	Computer tutorial: Statistical	Jerome Baron, Pascale Stiles,
	methods + Coffee break (3h)	Prasad Liyanage, and Munira
	Day 2: Backing Lawring	Omar
Day 3: Machine learning models		
09:00-10:00	Lecture: Machine learning	Michael Opata
40.45.10.15	methods I (60min)	
10:15-10:45	Presentation : Predicting Avian	Michael Opata
	Influenza outbreaks in Europe	
	(30min)	

	Coffee break		
11:15-12:15	Lecture: Machine learning	Steffen Knoblauch	
	methods II (60min)		
	Lunch		
13:15-16:15	Computer tutorial: Machine	Michael Opata, Yichao Liu,	
	learning methods + Coffee	Peter Fransson, and Munira	
	break (3h)	Omar	
	Social event		
Day 4: Process-based models			
09:00-10:00	Lecture: Process-based models and methods I (60min)	Åke Brännström	
10:15-10:45	Presentation : Integration of	Julian Heidecke	
	climate-sensitivity in the		
	parameterization of process-		
	based models (30min)		
11:15-12:15	Coffee break Lecture: Process-based models	Robert Scheichl	
11:15-12:15	and methods II (60min)	Robert Scheichi	
	and methods if (comm)		
	Lunch		
13:15-16:15	Computer tutorial: Process-	Pratik Singh, Julian Heidecke,	
	based models and methods +	and Peter Fransson	
Coffee break (3h)			
	Process-based models cont. & O		
09:00-09:45	Lecture: Process-based models and methods III (45min)	Robert Scheichl	
10:00-10:45	Tutorial: TBA	Peter Fransson	
10.00 10.40	i deciral. 15/1	recer runsson	
	Coffee break		
11:15-11:45	Pitches for EU + Closing	Joacim Rocklöv	
	(30min)		
11:45-13:15	Networking + Lunch		