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

Program

Time slot	Session	Instructors
Day 1 (23/9): Introduction		
08:30-09:00	***Registration*** ***Place: 5th floor***	
09:00-09:45	Welcome and Official Opening. Introduction round and logistics of the applied modelling of climate-sensitive infectious disease summer course (45min) ***Room: 5/104***	**Michael Winckler and Joacim Rocklöv**
09:45-10:30	***Lecture****:* Introduction to climate-sensitive diseases and modelling (45min) ***Room: 5/104***	**Joacim Rocklöv**
	Coffee break ***Common Room (5th floor)***	
11:00-11:45	***Lecture****:* Introduction to climate science (45min) ***Room: 5/104***	**Stella Dafka**
12:00-12:45	***Presentation****:* Introduction to spatial data science for climate data (45min) ***Room: 5/104***	**Charles Hatfield**
	Lunch ***Common Room (5th floor)***	
14:00-17:00	***Computer tutorial****:* Climate data & **Coffee break** (3h) ***Room: 5/104***	**Stella Dafka, Pratik Singh, Sumet Khumphairan, and Munira Omar**
18:00-19:30	***Reception*** ***Common Room (5th floor)***	
Day 2 (24/9): Statistical models		
09:00-10:00	***Lecture****:* Statistical methods I (60min) ***Room: 5/104***	**Joacim Rocklöv**
10:15-10:45	***Presentation****:* Distributed Lag Models (30min) ***Room: 5/104***	**Prasad Liyanage**
	Coffee break ***Common Room (5th floor)***	

11:15-12:15	***Lecture:*** Statistical methods II (60min) ***Room: 5/104***	**Jonas Walin**
	Lunch ***Common Room (5th floor)***	
13:15-16:15	***Computer tutorial:*** Statistical methods & **Coffee break** (3h) ***Room: 5/104***	**Jerome Baron, Pascale Stiles, Prasad Liyanage, and Munira Omar**
17:30-19:00	***Social event:*** Guided Tour of Altstadt Heidelberg ***Meeting point:*** Löwenbrunnen at Universitätsplatz	
Day 3 (25/9): Machine learning models		
09:00-10:00	***Lecture:*** Machine learning methods I (60min) ***Room: 5/104***	**Michael Opata**
10:15-10:45	***Presentation****: Predicting Avian Influenza outbreaks in Europe* (30min) ***Room: 5/104***	**Michael Opata**
	Coffee break ***Common Room (5th floor)***	
11:15-12:15	***Lecture:*** Machine learning methods II (60min) ***Room: 5/104***	**Steffen Knoblauch**
	Lunch ***Common Room (5th floor)***	
13:15-16:15	***Computer tutorial:*** Machine learning methods & **Coffee break** (3h) ***Room: 5/104***	**Michael Opata, Yichao Liu, Peter Fransson, and Munira Omar**
Day 4 (26/9): Process-based models		
09:00-10:00	***Lecture:*** Process-based models and methods I (60min) ***Room: 5/104***	**Åke Brännström**
10:15-10:45	***Presentation:*** Integration of climate-sensitivity in the parameterization of process-based models (30min) ***Room: 5/104***	**Julian Heidecke**
	Coffee break ***Common Room (5th floor)***	
11:15-12:15	***Lecture:*** Process-based models and methods II (60min) ***Room: 5/104***	**Robert Scheichl**
	Lunch ***Common Room (5th floor)***	

13:15-16:15	***Computer tutorial**:* Process-based models and methods & **Coffee break** (3h) ***Room: 5/104***	**Pratik Singh, Julian Heidecke, and Peter Fransson**
19:00	***Social event:*** Dinner at restaurant Rossini	
Day 5 (27/9): Process-based models cont. & Outlook		
09:00-09:45	***Lecture**:* Process-based models and methods III (45min) ***Room: 5/104***	**Robert Scheichl**
10:00-10:45	***Presentation:** An interpretable covariate compartmental model for predicting the spatio-temporal patterns of dengue in Sri Lanka* ***Room: 5/104***	**Peter Fransson**
	Coffee break ***Common Room (5th floor)***	
11:15-12:15	Pitches for EU + Closing (60min) ***Room: 5/104***	**Joacim Rocklöv**
12:15-13:15	Networking + Lunch ***Common Room (5th floor)***	