

Swiss Epidemiology Winter School 2022



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich



Infectious disease models and their use in the SARS-CoV-2 pandemic

31 March – 2 April 2022

Thursday, March 31

08:30	Introduction	PD Dr. Christian Althaus, University of Bern
08:35	History of infectious disease modeling	Prof. Dr. Roland Regoes, ETH Zurich
09:30	Coffee break	
10:00	Compartmental models	PD Dr. Christian Althaus, University of Bern
12:00	Afternoon break	
17:00	Computer practical: Modeling an influenza epidemic	
19:00	End of day	

Friday, April 1

08:30	Bayesian inference with Stan	Dr. Julien Riou, University of Bern
10:00	Coffee break	
10:30	Fitting and diagnosing an SIR model in Stan	Dr. Julien Riou, University of Bern
12:00	Afternoon break	
17:00	Computer practical: Modeling SARS-CoV-2 in Switzerland	
19:00	End of day	

Contact:

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Saturday, April 2		
08:30	Real-time tracking for real-time pandemics	Dr. Emma Hodcroft, University of Bern
10:00	Coffee break	
10:30	Infectious disease modeling during the SARS-CoV-2 pandemic	PD Dr. Christian Althaus, University of Bern
12:00	Afternoon break	
16:00	Workshop: How to use infectious disease modeling for policy making	
18:00	End of day	

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