



Center for Advanced
Mathematical Sciences | CAMS

“Networked Complexity: The Case of COVID-19”
Online Conference

AMERICAN UNIVERSITY OF BEIRUT
June 8 – 11, 2020

Program

Monday June 8, 2020

(2:00 pm - 4:45 pm) Beirut time
(12:00 pm - 2:45 pm) London time

Session I (2:00 pm – 3:00 pm)

Chair: Elsa Arcaute

Hassan Zaraket (2:00 pm – 2:20 pm)

(American University of Beirut, Lebanon)

“COVID-19 Pandemic: An Overview “

Hiba Sheheitli (2:20 pm – 2:40 pm)

(CAMS visiting researcher)

“On the Nonlinear Dynamics of Compartmental Epidemic Models“

Carlos Gershenson (2:40 pm – 3:00 pm)

(Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas at the Universidad Nacional Autónoma de México (UNAM), Centro de ciencias de la complejidad C3)

“Networks as Models of Complex Systems“

BREAK (3:00 pm – 3:10 pm)

Session II (3:10 pm – 4:10 pm)

Chair: Sara Najem

Sarah Wise (3:10 pm – 3:30 pm)

(University College London, UK)

“Simulating for Intervention - An Agent-based Approach “

Ana Basiri (3:30 pm - 3:50 pm)

(University of Glasgow, UK)

“Crowdsourced Data Paradox: Large but Biased or Small but Randomised Sample? “

Monika Halkort (3:50 pm - 4:10 pm)

(Lebanese American University & Orient Institute, Lebanon)

“Producing the COVID Body. The Intersectionality of Data Modelling with a View from the Global Souths”

Q&A (4:10 pm - 4:45 pm)

Moderator: Sara Najem

Tuesday June 9, 2020

(2:00 pm - 4:45 pm) Beirut time

(12:00 pm - 2:45 pm) London time

Chair: Hiba Sheheitli

Hassan Zaraket (2:00 pm – 2:20 pm)

(American University of Beirut, Lebanon)

“COVID-19 Early Investigation Studies: UNITY”

Heinrich Dohna (2:20 pm – 2:40 pm)

(American University of Beirut, Lebanon)

“Estimating Parameters of the COVID-19 Pandemic from Contact Tracing Data? “

BREAK (2:40 pm – 3:10 pm)

Ghina Mumtaz (3:10 pm – 3:30 pm)

(American University of Beirut, Lebanon)

“Covid-19 in Lebanon: Epidemic Status and Challenges of Modelling Predictions“

B. Shayak (3:30 pm – 3:50 pm)

(Cornell University, USA)

“Paths to the End of COVID19 - a Mathematical Modeling Study “

Panel discussion (3:50 pm – 4:45 pm)

“Challenges for Bridging Data Collection and Model Building”

Moderator: Heinrich Dohna

Wednesday June 10, 2020

(2:00 pm - 4:45 pm) Beirut time

(12:00 pm - 2:45 pm) London time

Chair: Ana Basiri

Fakhteh Ghanbarnejad (2:00 pm - 2:20 pm)

(ICTP, Italy)

“Epidemic Dynamics on Networks “

Elsa Arcaute (2:20 pm - 2:40 pm)

(University College London, UK)

“Mobility and Inequality under the Pandemic in Spain “

BREAK (2:40 pm - 3:10 pm)

Tapio Ala-Nissila (3:10 pm - 3:30 pm)

(Aalto University and Loughborough University, Finland and UK)

“Using and Constructing Mobility Data for Modeling Epidemic Spreading “

Sara Najem (3:30 pm - 3:50 pm)

(American University of Beirut, Lebanon)

“Log Gaussian Processes over Networks“

Panel discussion (3:50 pm - 4:45 pm)

“Complexity and its Import from Coarse-grained to Fine-grained“

Moderator: Ana Basiri

Thursday June 11, 2020

(2:00 pm - 4:45 pm) Beirut time

(12:00 pm - 2:45 pm) London time

Chair: Sarah Wise

Chadi Abdallah (2:00 pm - 2:20 pm)

(CNRS, Lebanon)

“Data Collection in Lebanon“

Wafa Al Ghatham (2:20 pm - 2:40 pm)

(University of Bahrain, Bahrain)

“How We Understand the City from a Space Syntax Approach? “

BREAK (2:40 pm - 3:10 pm)

Polly Hudson (3:10 pm - 3:30 pm)

(University College London, UK)

“Microspatiotemporal Data Generation and Collection - Lessons Learned from the Colouring London Initiative “

Melda Salhab (3:30 pm - 3:50 pm)

(University College London, UK)

“Using Satellite Data to Fill in Critical Information Gaps in Data-scarce Countries “

Panel discussion (3:50 pm - 4:45 pm)

“Data Ethics“

Moderator: Monika Halkort