

## CA20108 Cost Action

### Workshop on Gap Data Analysis and Gap Filling

Agenda August 29 2023

#### Day 1: Understanding Data Gaps & Python's Range of Interpolation Functions

9.30am Welcome and Introductions

<b>Session 1</b>	<b>Gap Data Analysis</b>	<b>Chair: Mark Roantree</b>
10.30am	Gap analysis and Gap Filling (Steven Caluwaerts, University of Ghent)  A toolkit for reading and analysing observational datasets. (Thomas Vergauwen, University of Ghent)  PIS network micrometeorological time-series: Hourly gaps distribution (Ivan Koci, PIS Vojvodina)	
1pm	LUNCH	
<b>Session 2</b>	<b>Gap Filling with Python</b>	<b>Chair: Branislava Lalic</b>
2pm	Approaches to Gap filling with Python: An Overview (Mark Roantree, Dublin City University)  1-D Gap filling with Python (An Nguyen, Dublin City University)  Multidimensional Gap filling with Python (Dinh Viet Cuong, Dublin City University)	
5pm	Workshop Reporting (Roantree, Lalic & Caluwaerts)	Closed Session for Organisers

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#### Day 2: Gap Filling Climate Data

9.30am Coffee & Recap

<b>Session 3</b>	<b>Traditional Approaches</b>	<b>Chair: Steven Caluwaerts</b>
10.00am	Filling gaps in hourly and daily micromet data: should we take into account the difference among meteorological elements characteristics? (Branislava Lalic, University of Novi Sad)  Gap-filling urban observational data using on ERA- 5 debiasing. (Amber Jacobs, University of Ghent)	
1pm	LUNCH	
<b>Session 4</b>	<b>Planning Session</b>	<b>Chair: Mark Roantree</b>
2pm	Identifying Collaborative Projects. Building critical mass around gap filling. Machine Learning approaches.	
5pm	Workshop Reporting (Roantree, Lalic & Caluwaerts)	Closed Session for Organisers

## Venue Details

### **COST Association Office**

Avenue du Boulevard - Bolwerklaan 21, 1210 Brussels

### Location Details:

<https://www.cost.eu/contact/>

### Arrival Details:

Enter the building called "Manhattan Centre". Once you are in the lobby, please inform the reception that you are coming to the COST Association for a COST Academy (CA20108 Workshop).

The reception will ask you to sign the attendance list to enter the gates to access the elevators. The COST Association is located on the 23rd floor.

### Logistics for those Claiming Expenses:

Please note that you will need to sign the attendance list for the workshop each day you are in attendance in order to claim travel reimbursement.