

PROGRAMME AND ABSTRACTS

25th International Conference on Computational Statistics (COMPSTAT 2023)

<http://www.compstat2023.org>

Birkbeck, University of London, UK
22-25 August 2023



SCHEDULE COMPSTAT 2023

2023-08-22	2023-08-23	2023-08-24	2023-08-25
A - Keynote COMPSTAT2023 09:00 - 10:00	F COMPSTAT2023 09:00 - 10:30	I COMPSTAT2023 09:00 - 10:00	M COMPSTAT2023 09:00 - 10:00
Coffee break 10:00 - 10:30	Coffee break 10:30 - 11:00	Coffee break 10:00 - 10:30	Coffee break 10:00 - 10:30
B COMPSTAT2023 10:30 - 12:30	G COMPSTAT2023 11:00 - 12:30	J COMPSTAT2023 10:30 - 12:30	N COMPSTAT2023 10:30 - 12:00
Lunch break 12:30 - 14:15	Lunch break 12:30 - 14:15	Lunch break 12:30 - 14:15	O - Keynote COMPSTAT2023 12:10 - 13:10
C COMPSTAT2023 14:15 - 15:45	H COMPSTAT2023 14:15 - 15:45	K COMPSTAT2023 14:15 - 15:45	
Coffee break 15:45 - 16:15		Coffee break 15:45 - 16:15	
D COMPSTAT2023 16:15 - 17:45		L COMPSTAT2023 16:15 - 17:45	
E - Keynote COMPSTAT2023 18:00 - 18:55			
Welcome reception 19:00 - 20:30			
		Conference dinner 20:00 - 22:00	

Tutorials, social events and general information

TUTORIALS - COMPSTAT 2023

The first tutorial is virtual, given by Prof. Alessandra Luati (*Dynamic models for multiple quantiles*), Tuesday 22.8.2023, 10:30 - 12:30. The second is given by Prof. Francisco Javier Rubio (*Bayesian variable selection for survival data: Theory, methods, software and applications*), Thursday, 24.8.2023, 10:30 - 12:30.

SOCIAL EVENTS - COMPSTAT 2023

- *The coffee breaks* will take place in Room 305, Floor 3, Birkbeck Central Building. You must have your conference badge in order to attend the coffee breaks.
- *Welcome Reception, Tuesday, 22nd August 2023, 19:00-20:30.* The Welcome Reception will take place in Room 305, Floor 3, Birkbeck Central Building, and is open to all registrants who had preregistered and accompanying persons who purchased a reception ticket. Participants must bring their conference badges in order to attend the reception. Preregistration is required due to health and safety reasons.
- *Afternoon tea, Wednesday, 23rd August 2023, 16:00-17:30.* Traditional full afternoon tea at the Ambassadors Bloomsbury Hotel, 12 Upper Woburn Place, London, WC1H 0HX, United Kingdom. This event is optional, and registration is required. Participants must bring their conference badge in order to attend the event. Information about the booking is embedded in the QR code on the conference badge.
- *Conference Dinner, Thursday, 24th August 2023, 20:00-22:30.* The conference dinner will take place at the Ambassadors Bloomsbury Hotel. The conference dinner is optional, and registration is required. Participants must bring their conference badges to attend the conference dinner. Information about the purchased conference dinner ticket is embedded in the QR code on the conference badge.

Address of venues

The Conference venue is the Birkbeck Central Building, Birkbeck University of London, UK, Malet St, London WC1E 7HY.

Registration

Registration will be open on Tuesday from 08:00 to 18:00, Wednesday from 08:40 to 15:00, Thursday from 08:40 to 17:00 and Friday from 08:40 to 12:30. It will take place in the ground-level Hall of the Birkbeck Central Building.

Presentation instructions

The opening and the keynotes on Tuesday will take place in CLO B01, on the basement of the Clore Management Center. The rest of the conference will run in the Birkbeck Central Building, mainly on Floor 3. BCB 206 on Floor 2 can be used as a quiet room to attend virtual sessions from their own devices and will also be used for the closing Keynote talk. The poster sessions will take place online, but in-person participants are invited to meet in the registration area with their own laptops for related discussions. The virtual presentations will take place through Zoom. Speakers should have a stable internet connection, and ensure their video and audio are working. They will share their slides when the chair requires it, present their talk, and answer questions after the presentation. The in-person speakers must share presentations through the Zoom session open on the desktop in the conference rooms. The rooms have a webcam, and an omnidirectional desk microphone that collects the sound around the PC desk to make the live streaming easy. Detailed indications for speakers in either virtual or hybrid sessions can be found on the website. As a general rule, each speaker has 20 minutes, including 2-3 minutes for discussion. Strict timing must be observed.

Posters

The poster sessions will take place through Gather Town. The posters should be sent in png format to info@compstat2023.org by 15th August. Landscape orientation is advisable. Detailed indications for the poster presentations can be found on the website.

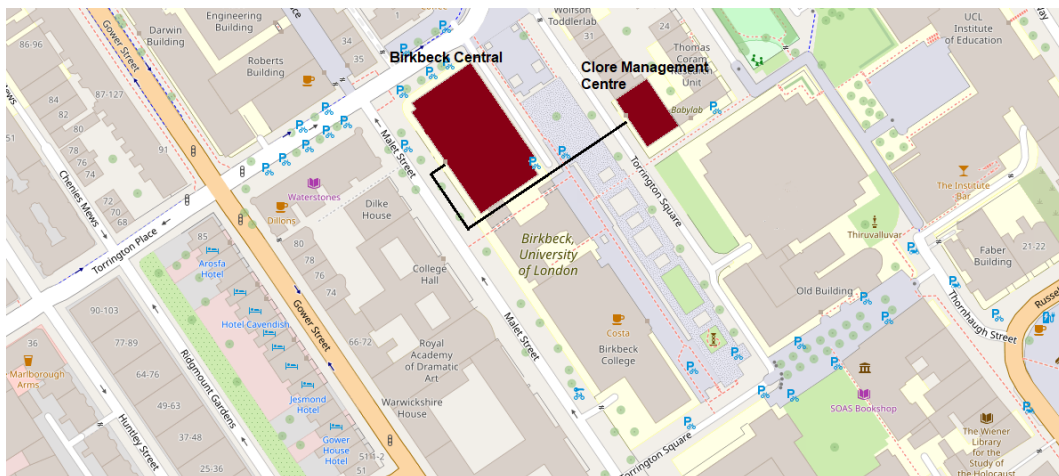
Session chairs

The session chairs will be responsible for introducing the session, the speakers and coordinating the discussion time. A member of the conference staff, identified on Zoom by the name Angel followed by a number, will assist online. If any speaker is missing or has a technical problem, the chair can pass to the next speaker and come back later to resume if possible. Detailed indications for the session chairs of both virtual and hybrid sessions can be found on the website.

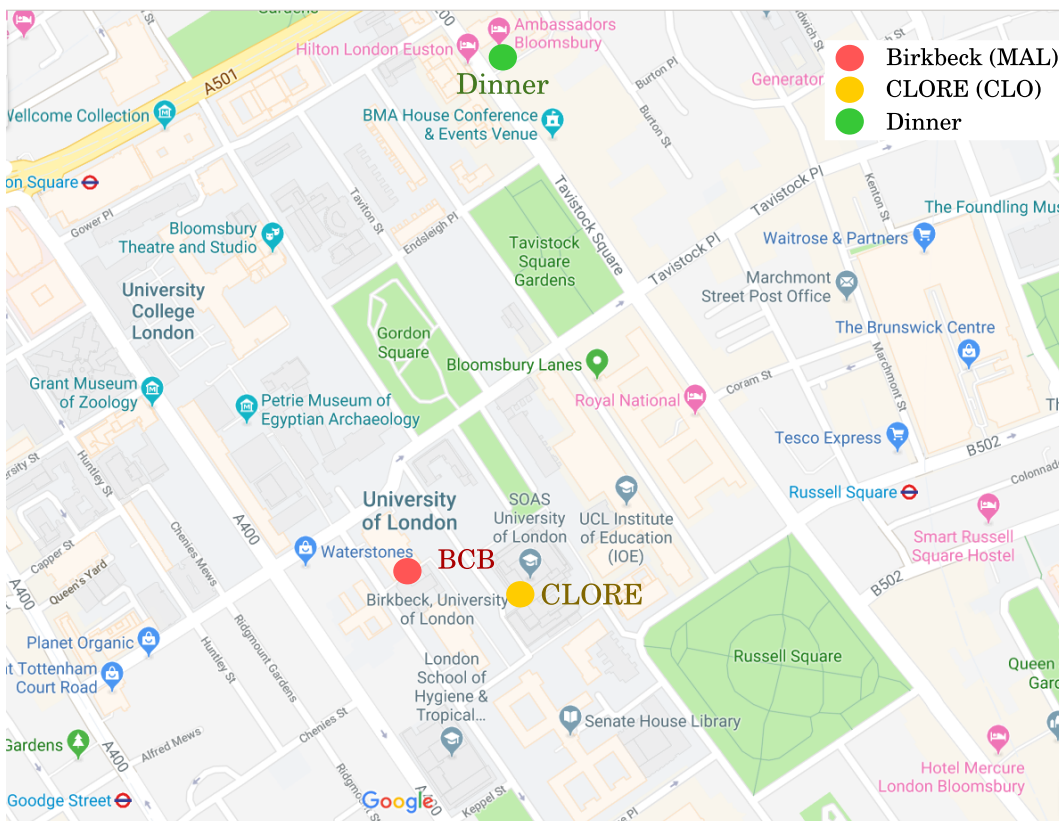
Test session

A test session will be set up for Saturday, 19th August 2023, from 15:00 to 15:30 UTC+1 (BST/UK time). The participants will be able to enter the virtual room R01 in the programme to test their presentations, video, micro and audio. Detailed indications for the test sessions can be found on the website.

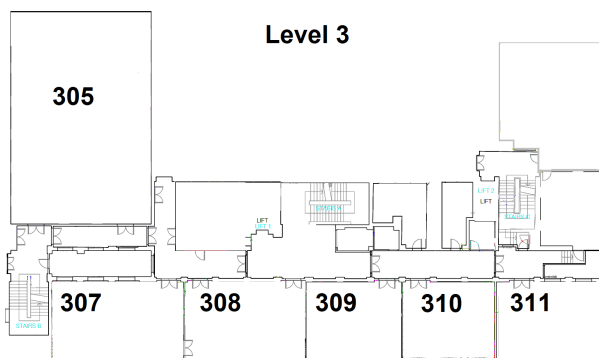
COMPSTAT venue



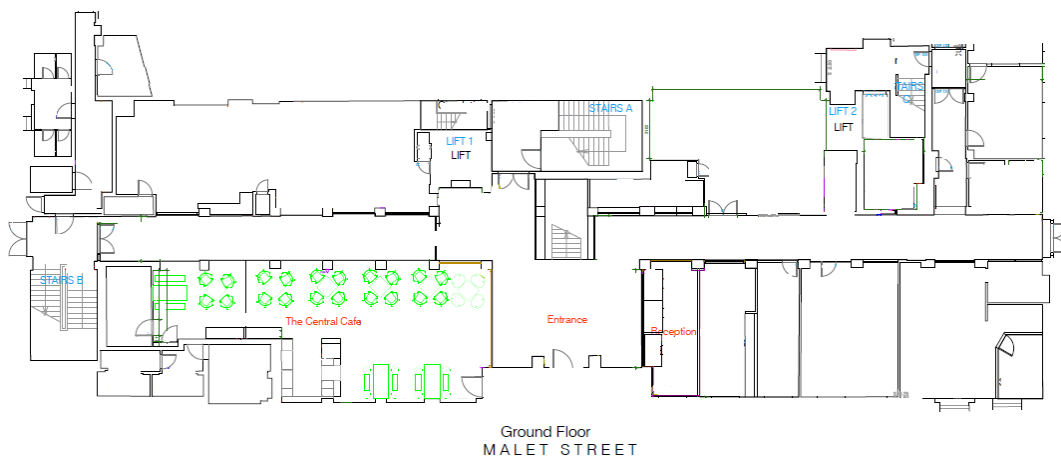
Venues and nearby area



Floor 3 Birckbeck Central Building (BCB)

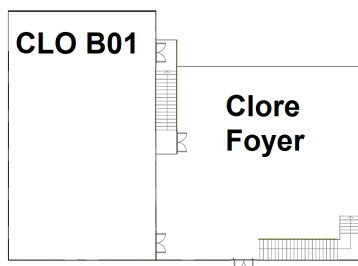


Ground floor Birckbeck Central Building (BCB)



Basement of Clore Management Centre

Clore Management Centre



Keynote talk I	Tuesday 22.08.2023	09:00 - 10:00
MULTI-OBJECTIVE OPTIMISATION OF RESTRICTED RANDOMISED DESIGNS		
Speaker: Kalliopi Mylona, King's College London, United Kingdom		
Keynote talk II	Tuesday 22.08.2023	18:00 - 18:55
THE HISTORICAL ROLE OF ENERGY IN UK INFLATION AND PRODUCTIVITY		
Speaker: David Hendry, University of Oxford, United Kingdom		
Keynote talk III	Friday 25.08.2023	12:10 - 13:10
SUBJECT PREVALENCE IN DOCUMENTS BASED ON TOPIC MODELING		
Speaker: Ana Colubi, University of Giessen, Germany		
Parallel Session B – COMPSTAT2023	Tuesday 22.08.2023	10:30 - 12:30
CO112 TUTORIAL I (Room Virtual room R01)		
CO015 CATEGORICAL AND HIGH-DIMENSIONAL DATA ANALYSIS (Room BCB 311)		
CC073 SPATIAL STATISTICS (Room BCB 307)		
CC062 BIOSTATISTICS (Room BCB 308)		
CC030 TIME SERIES (Room BCB 310)		
Parallel Session C – COMPSTAT2023	Tuesday 22.08.2023	14:15 - 15:45
CO017 STATISTICAL METHODS FOR SPATIAL AND SPATIO-TEMPORAL DATA (Room Virtual room R01)		
CO016 BAYESIAN METHODS (Room BCB 307)		
CO028 RANK-BASED INFERENCE, FEATURE SELECTION, AND DATA CONSOLIDATION (Room BCB 310)		
CO026 CMSTATISTICS SESSION: STATISTICAL ANALYSIS OF COMPLEX DATA (Room BCB 311)		
CC053 STATISTICAL MODELLING AND INFERENCE (Room BCB 308)		
Parallel Session D – COMPSTAT2023	Tuesday 22.08.2023	16:15 - 17:45
CI003 BAYESIAN NONPARAMETRIC METHODS AND COMPUTING (Room BCB 307)		
CO019 DATA DEPTH: A FOCUS ON COMPUTATION AND ANOMALY DETECTION (Room BCB 310)		
CO027 RECENT ADVANCES IN STATISTICAL LEARNING (Room BCB 309)		
CC086 MULTIVARIATE STATISTICS (Room BCB 308)		
CC110 TIME SERIES IN APPLICATIONS (Room BCB 311)		
Parallel Session F – COMPSTAT2023	Wednesday 23.08.2023	09:00 - 10:30
CI006 MODERN STATISTICAL ANALYSIS FOR DEPENDENT DATA (Room Virtual room R01)		
CO024 MULTIDIMENSIONAL VISUALISATION IN ACTION: ADVANCES AND APPLICATIONS (Room BCB 308)		
CC033 ALGORITHMS AND COMPUTATIONAL METHODS (Room BCB 310)		
CC057 SEMI- AND NONPARAMETRIC METHODS (Room BCB 311)		
CC046 MACHINE LEARNING (Room BCB 309)		
Parallel Session G – COMPSTAT2023	Wednesday 23.08.2023	11:00 - 12:30
CI004 CHANGE-POINT ANALYSIS (Room BCB 307)		
CO100 CLUSTERING AND REGRESSION ANALYSIS OF COMPLEX REAL-LIFE DATA (Room Virtual room R01)		
CO025 ADVANCES IN STATISTICS FOR FINANCE (Room BCB 310)		
CO008 CAUSAL INFERENCE AND FUNCTIONAL DATA ANALYSIS (Room BCB 309)		
CC082 HIGH-DIMENSIONAL STATISTICS (Room BCB 311)		
Parallel Session H – COMPSTAT2023	Wednesday 23.08.2023	14:15 - 15:45
CV072 SPATIAL STATISTICS (Room Virtual room R01)		
CO104 STATISTICS FOR DATA SCIENCE (Room BCB 308)		
CO103 DYNAMIC NETWORKS (Room BCB 310)		
CO101 NOVEL PERSPECTIVES IN BAYESIAN STATISTICS (Room BCB 311)		
CO107 ADVANCES IN MULTI-VIEW LEARNING AND MIXTURE MODELS (Room BCB 309)		
Parallel Session I – COMPSTAT2023	Thursday 24.08.2023	09:00 - 10:00
CC114 GENERALIZED LINEAR MODELS (Room BCB 307)		
CC061 DESIGN OF EXPERIMENTS (Room BCB 308)		
CC037 BAYESIAN STATISTICS (Room BCB 310)		
CC034 COMPUTATIONAL AND FINANCIAL ECONOMETRICS (Room BCB 311)		
CC109 TIME SERIES ECONOMETRICS (Room BCB 309)		
Parallel Session J – COMPSTAT2023	Thursday 24.08.2023	10:30 - 12:30
CO113 TUTORIAL II (Room BCB 307)		
CO012 NEW TRENDS FOR STATISTICAL COMPUTING: BAYESIAN AND SYMBOLIC DATA ANALYSIS (Room BCB 308)		
CO105 COMPUTATIONAL ASPECTS OF STRUCTURED MULTIVARIATE AND FUNCTIONAL DATA (Room BCB 310)		
CC111 APPLIED ECONOMETRICS (Room BCB 311)		
CC065 ROBUST METHODS (Room BCB 309)		
CP001 POSTER SESSION (Room Poster session)		
Parallel Session K – COMPSTAT2023	Thursday 24.08.2023	14:15 - 15:45
CV032 MACHINE LEARNING AND COMPUTATIONAL METHODS (Room BCB 311)		
CI002 ROBUST STATISTICS FOR MODERN INFERENCE PROBLEMS (Room BCB 307)		
CO013 NEW DEVELOPMENTS IN BAYESIAN ANALYSIS (Room BCB 308)		
CO106 ADVANCES IN FUNCTIONAL DATA: THEORY AND APPLICATIONS (Room BCB 310)		
CC050 FORECASTING (Room BCB 309)		
Parallel Session L – COMPSTAT2023	Thursday 24.08.2023	16:15 - 17:45
CV044 APPLIED STATISTICS AND ECONOMETRICS (Room Virtual room R01)		
CI005 BAYESIAN MODELS: INFERENCE AND APPLICATIONS (Room BCB 307)		
CO023 COMPOSITIONAL, DISTRIBUTIONAL AND RELATIVE ABUNDANCE DATA (Room BCB 310)		
CO021 STATISTICS AND DATA ANALYTICS (Room BCB 309)		
CC085 COMPUTATIONAL STATISTICS (Room BCB 308)		
Parallel Session M – COMPSTAT2023	Friday 25.08.2023	09:00 - 10:00
CV035 COMPUTATIONAL AND FINANCIAL ECONOMETRICS (Room BCB 206)		
CO014 RECENT CLUSTERING METHODS FOR COMPLEX DATA I (Room BCB 309)		
CC045 APPLIED STATISTICS AND DATA ANALYSIS (Room BCB 307)		
CC118 QUALITY CONTROL (Room BCB 308)		
CC070 TEXT MINING (Room BCB 310)		
CC094 LONGITUDINAL AND FUNCTIONAL DATA ANALYSIS (Room BCB 311)		
Parallel Session N – COMPSTAT2023	Friday 25.08.2023	10:30 - 12:00
CV031 TIME SERIES AND DEPENDENCE MODELS (Room BCB 308)		
CI007 RECENT ADVANCES IN DIMENSION REDUCTION METHODS (Room BCB 310)		
CO010 RECENT ADVANCES IN BAYESIAN ECONOMETRICS (Room Virtual room R01)		
CO022 STATISTICS APPLIED TO INDUSTRY (Room BCB 307)		
CO018 ML AND FINTECH (Room BCB 311)		
CO020 RECENT CLUSTERING METHODS FOR COMPLEX DATA II (Room BCB 309)		