

Coordinator: Prof. Mélanie Bertin, EHESP

Location: 409, EHESP Campus 20 Avenue George Sand, La Plaine St Denis

Monday 01 November HOLIDAY	Tuesday 02 November	Wednesday 03 November	Thursday 04 November	Friday 05 November
	9:00– 10:00 (<i>Lecture</i>) Module presentation & introduction to multidimensional methods Mélanie Bertin 10:00 – 12:00 (<i>Lecture</i>) Principal component analysis: methods and applications Mélanie Bertin	9:00 – 11:00 (<i>Lecture</i>) Correspondence analysis (CA) and multiple correspondence analysis (MCA) 11:00 – 12:00 (exercises) Interpreting the results of a correspondence analysis Mélanie Bertin	9:00– 10: 30 (<i>Lecture</i>) Cluster analysis: general principle, dendrogram representation and interpretation, main characteristics of classes Mélanie Bertin 10:30 – 12:00 <i>An example of multidimensional analyses to characterize environmental health disparities'</i> Cindy Padilla	9:00– 10: 30 (<i>Conf'</i>) Complementarity between unsupervised analyses and supervised analyses– Research examples Maxime Raffray - EHESP 10:30 – 12:00 (<i>LCA</i>) Other statistical approaches to take into account large amount of data. Mélanie Bertin
12:00 Lunch	12:00 Lunch	12:00 Lunch	12:00 Lunch	12:00 Lunch
	1:00 – 2:30 Interpreting the results of a PCA Cindy Padilla 2:30 – 5 :00 Computer lab – R PCA analyses Mélanie Bertin/Cindy	1:00 – 3 :00 Computer lab – R MCA analyses 3:00 – 5:00 Group project Mélanie Bertin	1:00 – 3:00 Computer lab – R Clustering analyses 3:00 – 5:00 Group project Mélanie Bertin –	1:00 – 4:00 Group Project Mélanie Bertin

Please note that some small changes could occur