

Coordinator: Prof. Mélanie Bertin, EHESP

Location: Grande sale RDC, EHESP Campus 20 Avenue George Sand, La Plaine St Denis

| Monday 16 November | Tuesday 17 November | Wednesday 18 November | Thursday 19 November | Friday 20 November |
|---|---|---|---|--|
| 9:00– 10:00 Module presentation Presentation of the group project Mélanie Bertin - EHESP 10:00– 12:00 (<i>Lecture and conf</i>) Multivariate analyses and colinearity Séverine Deguen - EHESP | 9:00– 10:00 (<i>Lecture</i>) Overall introduction to multidimensional methods Mélanie Bertin 10:00 – 11:00 <i>'An example of multidimensional analyses to characterize environmental health disparities'</i> Cindy Padilla 11:00 – 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, dendogram representation and interpretation, main characteristics of classes Mélanie Bertin 10:00 – 12:00 Computer lab – STATA/R MCA analyses Mélanie Bertin | 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 – 4:00 Computer lab – STATA/R Multivariate analysis, collinearity Séverine Deguen/Cindy Padilla -EHESP | 1:00 – 2:30 Principal component analysis: methods and applications (<i>Lecture</i>) Mélanie Bertin 2:30:00 – 4:00 Interpreting the results of a PCA Mélanie Bertin/Cindy Padilla | 1:00 – 2:30 Computer lab – STATA/R PCA analyses 2:30 – 4:00 Group project 4:00– 5:30 Tutoring session Mélanie Bertin | 1:00 – 2:30 Computer lab – STATA/R Clustering analyses 2:30 – 4:00 Group project 4:00– 5:30 Tutoring session Mélanie Bertin | 1:00 – 4:00 Group Project Mélanie Bertin |

Please note that some small changes could occur