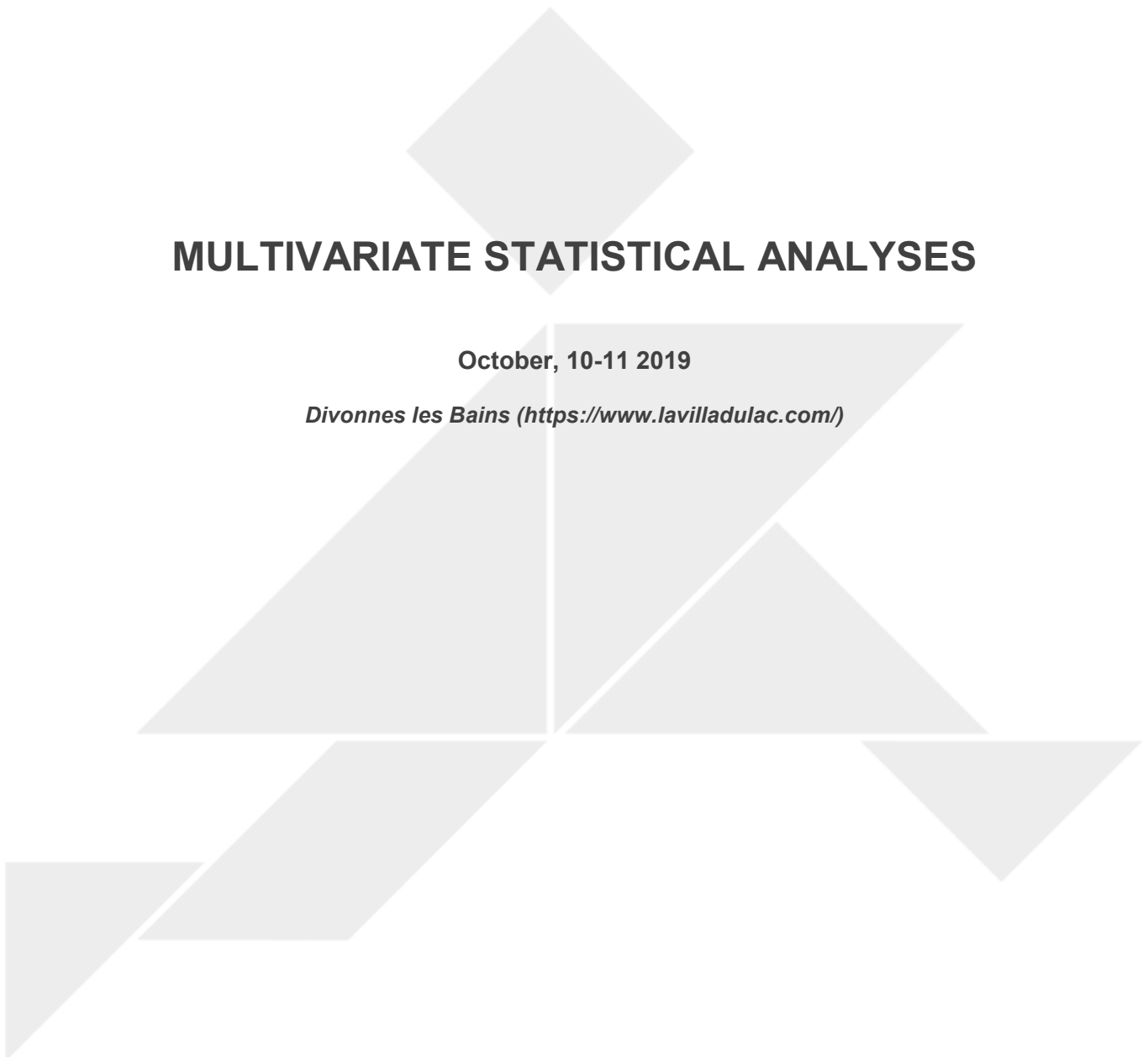




# MULTIVARIATE STATISTICAL ANALYSES

October, 10-11 2019

*Divonnes les Bains (<https://www.lavilladulac.com/>)*

---

## DOCTORAL PROGRAMME – MULTIVARIATE STATISTICAL ANALYSES – OCTOBER, 10-11 2019

---

### THURSDAY, OCTOBER 10<sup>TH</sup>

#### 9h15 - 12h45. Cluster Analysis – Prof. Matthias Studer

9h15-10h45: 1) Some uses of clustering in the social sciences, 2) Main clustering methods, 3) interpreting the results

10h45-11h15: *Coffee break*

11h15-12h45: 4) Choosing a method and the number of group using cluster quality measures, 5) Some common pitfalls of cluster analysis

12h45 – 14h00. *Lunch*

#### 14h00 - 17h30. Linear and logistic regression models: Modeling strategies – Prof. Tim Liao

14h00-15h30: 1) Model specification, 2) Model assumptions, 3) Functional forms, 4) Dummy variables

15h30-16h00: *Coffee break*

16h00-17h30: 5) Interaction terms, 6) Comparing social groups, 7) Presenting results

19h30 *Dinner*

### FRIDAY, OCTOBER 11<sup>TH</sup>

#### 9h00 - 12h30. Linear and logistic regression models: Interpretation – Prof. Tim Liao

9h00-10h30: 1) Effects on linear outcome, 2) Effects on the odds, 3) Effects on probability

10h30-11h00: *Coffee break*

11h00-12h30: 4) Predicted outcome, 5) Predicted odds, 6) Predicted probability

12h30 – 13h45. *Lunch*

#### 13h45 – 16h45. PhD's projects presentations (tutors: Prof. Tim Liao, Prof. Matthias Studer, Prof. Eric Widmer)

13h45-15h15: PhD's projects

15h15-15h30: *Coffee break*

15h30-16h45: PhD's projects