



SOFTWARES - TOOLS FOR DEVELOPMENT & PERFORMANCE IN R (HEAVYR)

DATES : FROM MAY 20 AM TO MAY 21 PM (12 HOURS)

OBJECTIVES

- To be able to identify computational bottlenecks in one's code
- To be able to optimize a function using C++ integration through Rcpp
- To be able to harvest multicore's speed by easy parallelization of code
- To be able to evaluate and compare speed-up gains of competing implementations

COURSE FEES

Individual : 300 Euros
Institution : 600 Euros

INSTRUCTORS

Robin GENUER (DIRECTOR OF STUDIES)
Boris HEJBLUM (DIRECTOR OF STUDIES)

LOCATION

University of Bordeaux

MODULE PROGRAM

- Brief recap on writing R packages
- How to measure computation time and profile R code
- Use Rcpp to optimize what should be
- Easily parallelize one's code
- Use GitHub to collaboratively develop open-source code

REQUIREMENTS

A working knowledge of R will be necessary: participants are expected to know how to write simple functions and be familiar with the concept of R package. This course is not suitable for R beginners