

Title: Workshop: Advanced Topics in R

Instructor(s): David Izydorczyk

Abstract:

This R workshop will cover a range of advanced topics for optimizing and accelerating R code. Participants will learn how to conduct simple and more advanced simulations in R and how to make them fast(er). They will learn how to evaluate the performance of their code. Additionally, the workshop will cover vectorization and Rcpp, which are techniques for improving the speed of R code by taking advantage of the underlying C++ implementation. Finally, the workshop will cover parallelization, which is a way to speed up computations by distributing them across multiple processors or cores. By the end of the workshop, participants will have a deeper understanding of these techniques and be able to apply them to improve the performance of their own R code.

Assignment: Active participation

Credit: 1 workshop day