Joint models for time-to-events and longitudinal markers - JOINTMOD

From June 15th to June 17th, 2022 (18 hours)

Location: Carreire Campus - University of Bordeaux

Training fees:
- Individual participation: €450
- Institutional participation: €900

Instructors and coordinators:
- Hélène JACQMIN-GADDA (Coordinator)
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- Cécile PROUST-LIMA
- Quentin LE COËNT
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Objectives
- Identify situations in which joint and frailty models are useful
- Understand the principles of these models distinguishing pros and cons of each approach
- Know how to estimate these models with R packages
- Know how to interpret the results of joint shared random effect models, joint latent class models and frailty models

Module Program
- Introduction to joint modeling of a quantitative longitudinal marker and a censored survival time
- Joint shared random effect models - Practice with the R-package JM
- Joint latent class models - Practice with the R-package LCMM
- Joint frailty model for repeated events and terminal events - Practice with the R-package Frailtypack

Requirements
Knowledge and practice of mixed models and standard time-to-event analyses, basic knowledge of the R software