

The logo for SIMBa, featuring the text "SIMBa" in a bold, black, serif font on a bright orange rectangular background.

BGSMath
BARCELONA GRADUATE
SCHOOL OF MATHEMATICS

Seminari Informal de Matemàtiques de Barcelona

Speaker: Cristóbal Rodero Gómez.

University: King's College London.

Date: Wednesday, April 12th, 2023.

Schedule: 13:00, *virtual coffee break*; 13:20, talk.

Place: UPC (FME aula 005) and Zoom.

Language: English.

Title: Modelling cardiac function and shape - The translation of mathematics to the clinic

Abstract: Computational cardiology is a very recent field where techniques from pure and applied mathematics, software engineering and biomedicine are combined to solve real-world clinical problems. This talk aims to introduce this translational science through a study where a set of 20 patient-specific virtual hearts was created and the link between modelled anatomy and simulated function is explored through global sensitivity analysis.

About us: *SIMBa* is a mathematics seminar organized by graduate students in the Barcelona area. It is aimed towards graduate and last course undergraduate students. Our goals are divulging the knowledge from different branches of mathematics for those interested and promote networking between the attendants.

This seminar is backed by the Faculty of Mathematics and Computer Science at Universitat de Barcelona, Faculty of Mathematics and Statistics at Universitat Politècnica de Catalunya, the Department of Mathematics from Universitat Autònoma de Barcelona, CRM, IMUB and BGSMath.

For more information, visit at www.ub.edu/simba/en/.

If you have any doubt or comment do not hesitate to contact us by sending an email to seminari.simba@gmail.com.