

MS25: Scientific Computing and Data Science in Biomedicine Organizers: Federica Caforio, Elias Karabelas, Francesco Regazzoni, Stefano Pagani and Elena Zappon

Friday, September 1st

Time	Speaker	Name of the talk
10:45-11:10	Medeea Horvat	Lattice-Boltzmann Methods for blood and perivascular fluid flow with pulsating vessel walls
11:10-11:35	Lorenzo Bennati	Blood dynamics in the left heart to study mitral regurgitation and two mitral valve repair techniques: an image-based computational fluid dynamic study
11:35-12:00	Elena Zappon	An electromechanical-torso model for the generation of the electrocardiograms
12:00-12:25	Meena Pargaei	A Finite Element Study of Cardiac Electrical Activity in a Human Cardiac Tissue with Multiple Myocardial Ischemia
12:25-12:50	Roberto Piersanti	Modeling a biophysically detailed atrial fiber architecture in cardiac computational models