

Biography :

Professor Mostafa Bendahmane is a researcher and professor at the University of Bordeaux, affiliated with the Institute of Mathematics of Bordeaux (IMB).

He is a member of the INRIA-CARMEN research team and Heart rhythm disease Institute (IHU-Lyric), which specializes in mathematical modeling and numerical simulations in cardiac electrophysiology.

His research mainly focuses on the mathematical analysis and numerical modeling of complex systems related to biology and medicine, especially in the field of cardiac electrophysiology. He has a particular interest in bidomain and tridomain equations, inverse problems in electrocardiology, and optimal control of degenerate systems.

Professor Bendahmane has authored over 90 peer-reviewed publications in high-impact journals. His work is frequently cited in applied mathematics and computational science circles.

As a research advisor, he has supervised several Ph.D. students (France, Chile, Morocco, Libanon, Tunisia), contributing to the training of the next generation of applied mathematicians.