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The role of mathematics in biomedical sciences

Abstract:

In this talk, we will present our research group which consists primarily of five women with a strong background in mathematics, who currently develop research work at the Faculty of Medicine of the University of Porto.

Combining the love for mathematics with research using real world data, our group applies mathematical tools to probe biomedical data. We cover a wide range of applications, namely signal processing, information theory (complexity), epidemiology, biostatistics, and data analysis. In this talk, we will briefly describe some of the national and European projects in which we have been cooperating. We will present some of the main results obtained and also share some of our current research questions.