

Welcome to KFUPM

Dr. Ilhem Bouderbala

Assistant Professor

Mathematics Department

Affiliated with Interdisciplinary Research Center for Intelligent Secure Systems



Education:

PhD. from Sorbonne University,
Paris, France, 2019

Previous Institution:

University of Alberta, Canada,
Postdoctoral Fellow,
2022-2025

Professional Interests:

Biological Complex Systems, State-Space
Modelling, Computational Biology, Animal
Movement Modelling, Stochastic Processes,
Bayesian Statistics, Statistical Ecology.

About Dr. Bouderbala:

Dr. Bouderbala specializes in the development and application of advanced statistical methodologies for modeling complex biological systems and phenomena of self-organization in nature. Her research encompasses state-space modeling, stochastic processes, and Bayesian statistical frameworks to investigate animal movement and the dynamic behaviors of small organisms. Additionally, she advances computational approaches within statistical ecology and spatial statistics, aiming to elucidate behavioral strategies and movement patterns.