XINGFU ZOU, University of Western Ontario
Spatial-Temporal dynamics of diffusive Lotka-Volterra competition model with a shifting habitat

In this talk, I will report some recent results on the Spatial-temporal dynamics of some diffusive Lotka-Volterra competition models in an environment that worsens at a constant speed. Both random diffusion and nonlocal diffusion will be considered. Conditions for a species to be persistent or extinct, as well as the patterns of persistence and extinction will be discussed.