## Stochastic Processes In EvoLution and Ecology

Bath - Berlin - Frankfurt - Mainz - Warwick

## Spatial populations with seed banks in random environment

This talk will focus on a spatially structured interacting Moran model with seed banks in random environment. The population sizes are sampled from a translation-invariant, ergodic, uniformly elliptic field that constitutes the static random environment of the model. Under mild assumptions on the model parameters, we identify the domain of attraction of each mono-type equilibrium and establish convergence to (mono-type) equilibrium for a large class of intitally consistent type-distribution. Our result shows that, for a.s. realisation of the population sizes, the fixation probability of the entire population to a single genotype homogenizes in the long run and crucially depends on the average relative seed-bank strength in the populations.

Speaker: Dr Shubhamoy Nandan (University of Leiden)

Time: Monday, 12.06.23, 4 P.M. CET

The lecture will be held online. Interested? Link available from Noemi Kurt kurt@math.uni-frankfurt.de