

A Stochastic Approach to Modeling a Predator-Prey Interaction on a Patch/Corridor Habitat

By

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This project develops discrete stochastic models of the predator-prey interaction between foxes and mice on fragmented patch/corridor habitats. By varying the corridor width and the number of patches, we are able to run numerous simulations in order to determine which habitat arrangements minimize the number of Lyme-disease carrying mice.