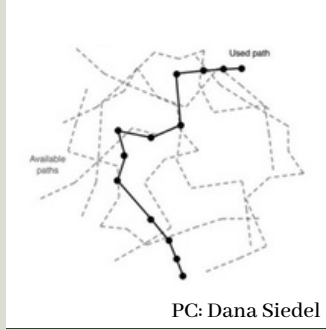


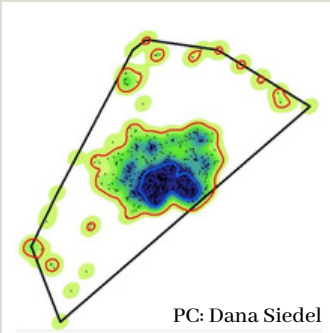
PC: Gabriel Reyes



PC: Dana Siedel



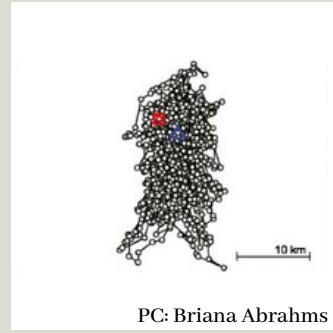
PC: Micheal Hallworth



PC: Dana Siedel



PC: Sebastian Kennerknecht



PC: Briana Abrahms

FALL 2022 ECL 290

Wednesdays 2:10-3:30 PM, Academic Surge Room 1064

# ANIMAL SPACE-USE AND MOVEMENT ECOLOGY

Drs. Justine Smith and Daniel Karp with Gabriel Reyes and Cody Pham

## COURSE DESCRIPTION

Analyses of animal space use and movement focus on elucidating how organisms move in response to environmental conditions. The goals of this graduate seminar are to 1) familiarize participants with many of the tools necessary to conduct movement analyses in R and 2) help participants develop a sense of the diverse applications of movement analyses. The course will follow a flipped-classroom structure. Before each meeting, participants will complete R tutorials (either in groups or alone) that include theoretical background on the analysis, worked examples, and some independent analyses. Class meetings will focus both on troubleshooting problems encountered whilst executing tutorial and on discussing potential applications each type of analysis. To facilitate discussion, 1-2 participant(s) will present and lead a discussion on an application of the analyses highlighted in the corresponding tutorial for the week.