

Amalie McKee

Mentors: Jeremy van Cleve and Jennifer Dunne

I will examine pollinator dynamics in ecosystems, using hive dynamics and the dynamics of the interactions between the pollinator species and the plants they pollinate. I will do so in both discrete and continuous time, attempting to find a model that will explain pollinator catastrophes like colony collapse disorder, potentially including such death factors as parasites and pesticides. I will begin communication with beekeepers, attempting to get a collection of data indicating the health of their hives and the plants they pollinate over a period of time to support the model.