

# An Amazing Project

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CSSS 17

- Compare the stability of ecological communities, May's (or ours) random matrix vs structured community . Analyze stability as a function of,
  1. Population size
  2. Structure of the dispersal matrix -  $\zeta$  modularity, degree distribution
- check **weak interaction effect** - seems like it stabilizes the foodwebs.
- Perturbation analysis (Climate change, extinction of a species) - how long does it take for the system to go **back** to equilibrium, if there is one.
- Hopefully, validate the method with a dataset. (greg's ocean data yay!)