1. We want to find the relationship between theoretical and empirical stability.

-Comparing: population CV and community CV vs. stochastic invariability, reactivity, and resilience. We expect to see the most at the population level.

2. We want to find the relationship between empirical stability and interaction strength. This allows us to identify how interaction strength and empirical data are related, and if so, how?

-Comparing: our four measures of interaction strength: 1. Mean interaction strength 2. Off diagonal 3. Top down 4. Bottom up vs. population CV and community CV

3. We want to determine if there’s a relationship between interaction strength and stability. This will allow us to identify what factors influence interaction strength, such as composition or complexity/richness

-Comparing: stability variables: 1. intrinsic stochastic variability, 2. reactivity, and 3. asymptotic resilience vs. interaction strength variables: 1. Mean interaction strength 2. Off diagonal 3. Top down 4. Bottom up.

Composite vs. Individual?

4. What factors influence interaction strength?

Comparing: interaction strength vs. varying factors (those listed below)

Species composition, e.g. daphnia’s presence or absence

Complexity/richness

Should this be done on an individual species basis?

5. We then want to look at specific relationships between interaction strength and stability

Stability measures (stochastic invariability, reactivity, resilience) vs. various specific interaction strength measures (ratio of edible and inedible, daphnia across treatments, etc.