Explanation of Files:

1. AlainacodeV2: my R code for bee diversity (Shannon Wiener), abundance, richness, and NMDS ordination for community composition.

-Includes species richness extrapolation (I didn’t use this in my paper)

-Has notes for and from collaborators (Adrian ALC wrote the original code for a previous student and I modified, Cathy was helping me understand issues with normality, ANOVAs, NMDS)

1. Smithbees.csv: data file for bee R code. Contains every bee collected at our sites
2. Specieslist\_quadandtran: we collected data both from the transects and from every bee-plant interaction (quad data, stands for quadrat only). I used both to make a list of every unique floral species at our sites.

-Can’t use this for abundance because bee interaction data is biased by which flowers the bees preferred. For abundance and diversity, we want to know what the general floral community at our sites looks like.

-It was fine for species richness because species richness does NOT account for the number of individuals of each species, only the number of unique species encountered, so the bias of bee-preference shouldn’t impact richness

4. Floral Transect Data Cleaned

-This is the data that we discussed today. This is from 50m transects (2 per site) with circular quadrats (hula hoop) at every 5m interval.

-Contains cover class data (DAFOR) for each blooming plant species

-Is not biased by bee preference, so can be used for general floral community diversity and abundance

5. Walton et al.

- A paper I could find that used DAFOR to measure the plant community