**Group:** GitGood

**Members:** Sarah Tucker, Nikita Konstantinov, Liam Joiner, Pallavi Gupta, Kai Ellis

**Dataset:** <https://datadryad.org/resource/doi:10.5061/dryad.120f446?fbclid=IwAR1rRF4M7UMN-z9dkWZH9MOh7JplgY8T6UTcUyGABU7_qgEd8kpycD_vKXw>

**Dataset description:**

The dataset contains Operational Taxonomic Unit (OTU) sequences from arthropods used in a study by [Creedy et al. (2019)](https://onlinelibrary.wiley.com/doi/full/10.1002/ece3.4839) in a FASTA file format, as well as a .csv file reporting the number of reads of each OTU in each sequenced library. The occurrence of these OTU’s were counted in samples gathered by placing 1 m^2 metal trays in the canopy and collecting organisms that fell into them after being fogged. In total, 13 tray samples were collected from an individual *Liquidambar styracaflua* tree canopy.

**Questions to address:**

1. Is there a relationship between species composition and size class?
   1. SNP data by size class of arthropods - create phylogeny
   2. regression depicting relationship between SNPs and size class
2. What has a stronger effect on arthropod communities: the presence/absence of certain taxa, or sampling location?