Project Update: December 2019

The field trips are over but acoustics work is infinite!! At the moment, I am viewing all the ultrasound recordings to identify the bat species, and I have reviewed 75% of all recordings. Unfortunately, I left the worst recordings to the end but I keep calm and strong to continue the job.

The insect identification from the rainy season of 2019 is over and It was nice to get two entomologists to help me because the collected data was too large for one person to identify everything. For the rainy season, we got more insect orders compared to the dry season, with 21 orders of Insecta and one order of Arachnidea (Aranea) – a total of 19128 individuals collected (Figure 1). The most representative order was Diptera with 12767 individuals collected in the malaise traps (Fig 1). The analysis comparing the availability of insects in each habitat with bat activity will begin when the identification of ultrasound recordings ends.
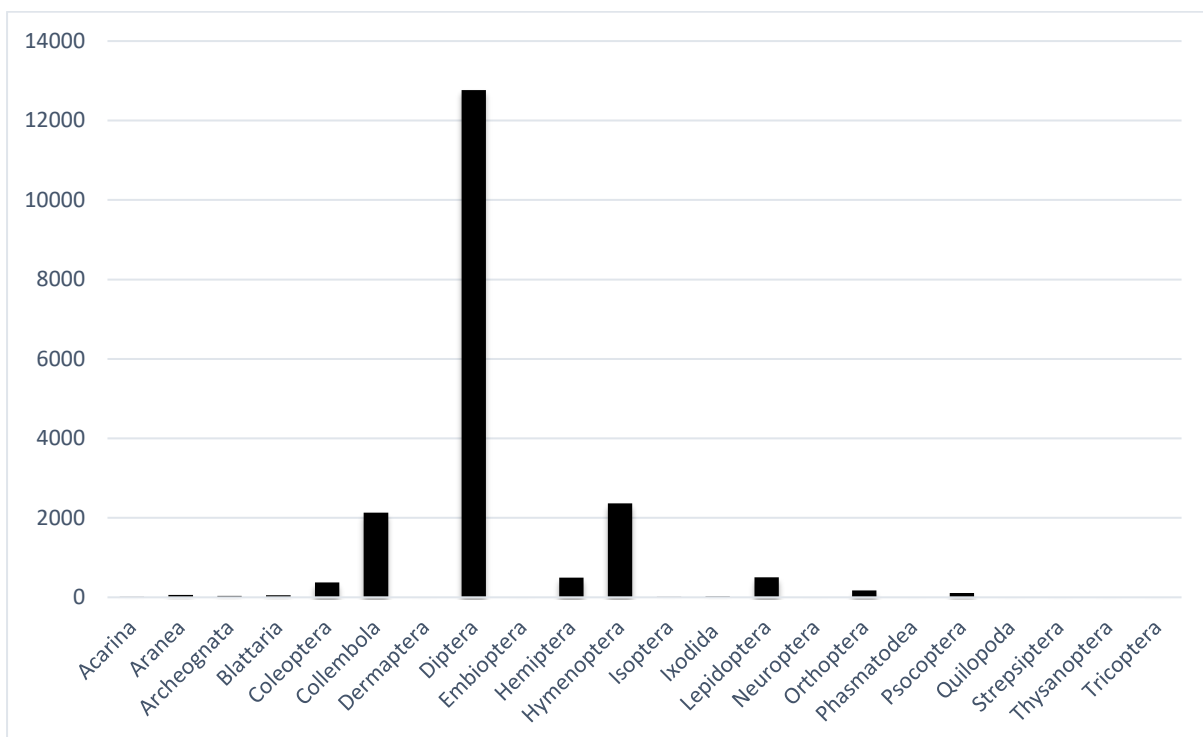

Figure 1. Orders of Insecta and Arachnidea collected by malaise traps in areas of BDFFP – Biological Dynamics of Fragmentation forest Project. These individuals are collected in the rainy season of 2019 – during February and May. Some orders have low number of individuals with non-visualization of the bar in the graph.

The next steps are to finish the identification of ultrasound recordings and begin with the analysis. I am doing part of my thesis at the University of Salford with Dr Christoph Meyer for learn new approaches of statistical analysis; therefore I hope to have a good background to analyse these data in the best way possible. I will come back to Brazil on March 2020.