

Alex Margaritescu

1002969638

EEB313

### EEB313 Project Contributions

I am part of SEAL\_TEAM\_6IX, we focused on the North American Breeding Bird Survey dataset and compiled information from several datasets into one mega dataset. The contribution from everyone in the group was evenly split, we all took turns in rotating roles within the team. Everyone had a chance to be a leader, a recorder, and organizer. When I was leader I tried to make sure everyone stayed on track and we didn't take on more than we could handle in our analyses. When I was recorder, I took meeting notes of what progress we had made and gave out "homework" of what we should work on for the next week. As organizer, I suggested days we should meet up to work on our project and stayed up to date as to how far we had gotten in our project.

I helped in deciding what data was crucial to keep in the dataset and then focused mainly on dealing with the influence of weather conditions over swallow abundance. I mutated columns in order to get average values of the weather conditions. I made swallow abundance versus weather condition plots so we could have a visual view of the effect of weather. I then made several linear models looking to see if there were significant weather changes over the years. I also made several linear models looking to see the influence of these average weather conditions over swallow abundance, for example: swallow abundance versus average temperature, swallow abundance versus average wind, and swallow abundance versus average sky. I also made some normal distribution plots with the frequency of swallows and weather conditions so we could see the ideal conditions.

For the written report, I worked on the abstract, contributed to the hypothesis, methods, results, and discussion. I proofread the entire report and made sure that everything flowed and had the proper citations.

For the presentation, I worked on organizing the slides to make it neat and cohesive. I presented my findings on weather conditions and possible futures directions for other analyses for possible causes of decline of the swallows in Ontario.

[Link to EEB313 Final Project](#)