

Birds with their songs and calls have long fascinated humans. House Sparrows (*Passer domesticus*) and European Starlings (*Sturnus vulgaris*) are known to flock and roost in large numbers showing social hierarchy; thus, communication is vital to survival of flocks. My research question is “Do morning and evening avian roosting vocalizations differ?” This question is worth researching because little has been learned about intraspecific call communication of avian species. We recorded 33 evening and morning calling bouts of approximately 1 minute long of House Sparrows (n=19) and European Starlings (n=14). I subsampled bouts to approximately 20 seconds of high-quality recording using Raven Pro 1.6.4. Subsequently, we analyzed differences between matins and vespers (morning and evening avian vocalizations) with MANOVA / PCA in R-Studio. I will gather my results and present them, interpreting any differences.