Work Breakdown:

All of us worked on programming the Sphero BOLTS. We all researching and testing methods to connect the Spheros via Bluetooth outside the SpheroEDU app, and, when that failed, spent countless hours trying to get the Spheros to go the requested point as precisely as possible. In addition, we all worked on the code needed to randomly generate paths for the distractors + sheep + wolf. We all worked on running through trials + identifying the best ones to film as well as filming the videos themselves. Finally, we all worked on writing the final paper. In addition, Evelyn wrote the script to generate paths for all trials, the script to plot Sphero sensor data vs. generated paths, and created the Qualtrics survey + ran the MTurk study. Sanya wrote the code to get all the Spheros to start and stop at the same time and code to randomize the wolf and the sheep, did the bulk of the background research for the paper, and created the Qualtrics survey + ran the MTurk study. Isabelle edited the trial videos, including getting and adding screenshots for the survey, and analyzed the results of the study. Overall, all three of us agree that we contributed equally to this project.