Dear selection committee,

My name is Melissa Moreno and I am a recent graduate of the University of Florida with a Bachelor’s of Science in Wildlife Ecology and Conservation. During the last semester of my undergraduate degree I assisted Dr. Pine with data management and visualization of collected sensor data for the University of Florida Oyster Restoration Project.

My goals are to continue my professional education, which would entail to learn and create products for conservation projects and organizations. For this graduate position specifically I would be interested in continuing the mapping and spatial dimension efforts of the oyster intertidal beds. This effort would include drone images taken of the area, and determining depth from 3D renderings. Field efforts to collect depth measurements would also be involved.

As a technical assistant on the Oyster Restoration Project in Cedar Key, I help create visualizations of water sensor data using R. I also assist Dr. Bill Pine with on the field efforts on collecting sensor on and near Lone Cabbage Reef. These measurements are collected as part of a monitoring effort that will determine the pre and post-construction effects. Other responsibilities for this project include building the database for the sensor data with the help of UFIT. This project is new, and I am currently involved in the database setup. I also help manage undergraduate volunteers that are assisting in data management/development of the restoration project.

As part of the data management aspect of this project, I also manage an internal website where they sensor collected data can be viewed. I have experience with Rmarkdown publishing, and Shiny Apps. I maintain this website on a weekly basis, creating new and interactive ways of relating to the data collected. I work independently, but my graphics and plots are used on quarterly reports. Before analysis is done, steps are taken to make sure the data is within range and representative of true values in Cedar Key, FL. You can view my work at [www.rpubs.com/melimore86/sitesmap](http://www.rpubs.com/melimore86/sitesmap) .

My Summer 2017 internship allowed me to gain experience in using mapping tools in the software program R. This program is used for several data analysis tools, as well as creating reports/tutorials. The internship allowed me to visualize spatial data regarding wood stork migratory movements. The course educated me on how to build maps from scratch and create layers on data overlaying on maps. The program R has very similar functions as Arc GIS, and together they can be used to create excellent referential data.

I have included my curriculum vitae, and unofficial transcripts. Should you have any questions please contact me any time at (305) 502-1502 or via email at [melimore86@ufl.edu](mailto:melimore86@ufl.edu). Thank you for your time and consideration.

**Sincerely,**

**Melissa Moreno**