

***City of Gainesville/Bob Graham Center Fellowship***

***Personal Data***

Student Name: Melissa Moreno Sex: (F) Date of Birth: 09 / 02 / 1986

College: University of Florida, School of Natural Resources and the Environment (S.N.R.E)

UFID: 0494-0864

Major(s): Interdisciplinary Ecology GPA: 4.0 Year: 1st Year

Expected Graduation Date: Spring 2021 Email Address: melimore86@ufl.edu

Permanent Home Address: 2900 NW 54 Ave

City: Gainesville State: FL Zip: 32653 Home Phone: (305 ) 502-1502

Current Address: 2900 NW 54 Ave

City: Gainesville State: FL Zip: 32653 Home Phone: (305 ) 502-1502

Please circle the category that pertains to you:

**Hispanic** Latino American Indian/Alaska Native

Black/African American White Asian

Native Hawaiian or other Pacific Islander Prefer not to disclose

***Application Questions***

*Extracurricular Activities: (List major leadership positions and service efforts completed at UF and in the*

*Gainesville community)*

• S.N.R.E Graduate Student Body Secretary

• R- Ladies workshops (outside of UF)

• R workshops (in UF)

• Data Carpentry Instructor (pending completion, until after May 10th)

Please list preferred fellowship placement (first preference and second preference). The fellowship categories are digital services, experience design, community engagement, and visual design. You can find descriptions at http://www.bobgrahamcenter.ufl.edu/content/available-city-gainesville-local- government-fellowships.

1. Digital Services

2. Visual Design

*In the space provided below or on a separate sheet, please describe the skills and experience you have that make you a good candidate for each category that you’ve selected as a preference. Furthermore, provide a response on what you hope to gain from the experience.*

My first Fellowship pick of Digital Services is exactly what I am working on for my Master’s Thesis. I am a graduate student and my main research is to create and develop an effective workflow for continuous and discrete datasets for the Lone Cabbage Reef Restoration Project (http://www.wec.ufl.edu/oysterproject/restoration.php). The project is centered around an oyster reef restoration effort near Cedar Key, Florida, and requires water quality and biological data to be collected, to record environmental changes caused by the restoration. My research involves consulting with experts at the University of Florida ARC’s department, in designing and implementing best data management strategies. Due to our efforts, the workflow has been successful and data analysis turn around time is 5 business day from water quality sensor downloads, until Shiny App representation online (https://oysterprojectck.shinyapps.io/wq\_app/).

My experience working on this project has given me the ability to write scripts and code to automate many of the processes using R. I use Github Pages to maintain and develop the project data website (https://github.com/LCRoysterproject/oysterproject using markdown. I transform and merge datasets using R, and I manage the water quality data in MySQL. Prior to my graduate assistantship I worked full-time on this project, where I developed and advanced in these data management techniques.

For the Visual Design Fellowship I have experience creating graphics such as plots and maps for the oyster restoration project. I use R and Rmarkdown to create visualizations that are viewed by agencies and the public. My experience has taught me that having an exact representation is important but not always the best way to visualize data depending on the audience. I work with the oyster restoration project to communicate ideas on how to best represent the water quality data.

I hope to gain from the Fellowship experience to continue working toward learning how to design, create, and implement effective data management workflows. There are many programs and projects that collect data, and sometimes fails at delivering the data’s analysis in a timely manner. This is apparent with many projects that collect biological data. I am interested in representing collected data to the Gainesville community in a way that is easy to understand and possibly reproducible. For my second Fellowship pick of Visual Design is the creative aspect of data management that interests me the most. How people perceive and receive information from graphics such as graphs, maps, and other visualizations is very important in the current work I am doing for the oyster restoration project. The creativity and inspiration to develop an effective visual graphic can be considered a fine art.

***Work Experience***

**1) Employer Name:** University of Florida

**Dates Employed:** 05/15/2018-07/15/2019

**Address:** 1545 W University Ave, Gainesville, FL 32611 **Phone:** (352) 273-2525

**Email:** [jnemmers@ufl.edu](mailto:jnemmers@ufl.edu) **,** [danrebo@uflib.ufl.edu](mailto:danrebo@uflib.ufl.edu)

**Supervisor:** John Nemmers, Dan Reboussin

**2) Employer Name**: University of Florida

**Dates Employed**: 01/01/2018- 08/15/2018

**Address:** 2002 McCarty Hall D, P.O. Box 110270, Gainesville, FL 32611-0270 **Phone:** (352) 392-1963

**Email:** [cals-dean@ufl.edu](mailto:cals-dean@ufl.edu), [billpine@ufl.edu](mailto:billpine@ufl.edu)

**Supervisor**: Dr. Bill Pine

**3) Employer Name:** Hillstone

**Dates Employed:** 04/2013- 12/2015

**Address:** 201 Miracle Mile, Coral Gables, FL 33134

**Phone:** (305) 529-0141

**Email: -**

**Supervisor:** Cindy Wathen

**4) Employer Name**: Authorize.net

**Dates Employed**:05/01/2010-03/01/2012

**Address:** American Fork, UT ,84003

**Phone:** (801) 492-6450

**Email: -**

**Supervisor:** Tammy W

***References***

**1)Name:** Joe Aufmuth

**Phone Number:** (352) 273-0371

**Relationship:** UF Consultant, GIS Librarian

**2) Name:** Dan Maxwell

**Phone Number:** (352) 294-1034

**Relationship:** UF Consultant, Informatics Consultant

**3)Name:** Dr. Bill Pine

**Phone Number:** (352) 273-3650

**Relationship:** UF Advisor, P.I of Lone Cabbage Reef Restoration project

***SUPPLEMENTAL INFORMATION***

Please attach to this form: a copy of your most recent resume and one letter of recommendation.

***OPTIONAL***: You may attach one additional sheet, if needed, for extracurricular, personal statement or work experience information that did not fit on this form.

**Melissa Moreno**

2900 NW 54 Ave, Gainesville, FL, 32653 | (305) 502-1502| [melimore86@ufl.edu](mailto:melimore86@ufl.edu)

**EDUCATION:**

08/2018- Ongoing, University of Florida, Gainesville, FL, **M.S in SNRE**

01/2015- 12/2017, University of Florida, Gainesville, FL**, B.S in Wildlife Ecology and Conservation**

08/2014-12/2014, Florida International University, Miami, FL, **Undergraduate Animal Sciences**

08/2011- 12/2013, Miami Dade Community College, Miami, FL, **Associate in Arts**

01/2001-05/2005, Felix Varela Senior High School, Miami, FL, **High School Diploma**

**RESEARCH / WORK EXPERIENCE:**

Research Assistant University of Florida, Gainesville, FL

Advisor Dr. Bill Pine

* Creating a workflow data management design for conservationists
* Increasing workflow efficiency through trial runs of data management plans

OPS Clerical Assistant

08/2017- 08/2018 University of Florida, Gainesville, FL

Supervisor Dr. Bill Pine and Dr. Peter Fredrick

* OPS Research Assistant for University of Florida Oyster Restoration Project
* Creating visual representations of continuous and discrete data in R
* Managing database for continuous and discrete data, MySQL, Axure
* Servicing sensors in Cedar Key on a bi-weekly basis, following standard safe boating practices
* Help develop methods of standard operation procedures, methods, and techniques for all aspects of oyster rproject
* Creating and maintaining user interface website for project, GitHub, rpubs.com

IFAS Internship

06/2017- 07/2017 FLREC, Fort Lauderdale, FL

Supervisor Mathieu Basille

* Supporting lab activities by using publicly-available biodiversity datasets and lab animal movement databases to produce maps of both large and small scale distribution patterns of vertebrate species in Florida (e.g. wood stork, sea turtles and raccoons), as well as educational resources for the general public
* Helping support graduate student’s publications with custom graphics

**VOLUNTEER EXPERIENCE:**

08/2017- 12/2017 USGS, Gainesville, FL

* Diamond Back Terrapin Isotope Analysis project under Mathew Denton
* Weighing and recording crushing specimens including blood and plant specimens

05/2014- 12/2014 South Florida Wildlife Center, Fort Lauderdale, FL

* Vaccinated and cared for wild animals, learned about diets and habitats of wild animals
* Experience with handling raptors, ducks, and wading birds

**AWARDS:**

* Theodore Roosevelt Conservation Award SEAFWAS Conference 2016

**PUBLICATIONS:**

Graphics-Picardi S., Borkhataria R. R., Bryan A. L. Jr., Frederick P. C., Basille M. (2018). GPS telemetry reveals occasional dispersal of federally threatened Wood Stork from the Southeastern US to Mexico. Caribb Nat.

**TECHNICAL SKILLS:**

* Proficient in program R, RStudio, Shiny Ap development
* Working with MySQL workbench
* Office applications, a variety of R packages including Tidy verse and ggplot.
* Experience servicing and collecting data from a variety of water quality sensors manufactured by Starr-Oddi and Diver.
* Florida Safe Boating certificate (2019). Experience with a variety of field techniques for oyster surveys including line transect and quadrats.

**LANGUAGES:**

English- Proficient

Spanish-

Writing- Intermediate

Reading- Intermediate

Speaking- Intermediate

Melissa Moreno

2900 NW 54 Ave, Gainesville, FL, 32653 | (305)502-1502 | [melimore86@ufl.edu](mailto:melimore86@ufl.edu)

**Dear City of Gainesville Fellowship Committee,**

My previous course work, and motivation to work in wildlife conservation makes me an ideal candidate for this position. This organization known for its excellent opportunities and respected reputation. I am a recently graduated student from the University of Florida with a B.S in Wildlife Ecology and Conservation.

I am currently working on an Oyster Restoration Project in Cedar Key, where I analyze water sensor data using R. I work with Dr. Bill Pine to retrieve sensor data which measures salinity, temperature, and conductivity to research the water quality in the Lone Cabbage Reef. This work will lead to a restoration project that will help restore Cedar’s Key marine ecological landscape. 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 every aspect of its setup. I also manage undergraduate volunteers that are assisting in data management/development of the restoration project.

As part of the data management 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 daily 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 enable me to become an expert in using mapping tools in the software program R Studio. This program is used for several data analysis tools, as well as creating reports/tutorials. The internship allowed me to visualize spatial data regarding animal movements. The course educated me on how to build maps from scratch and create layers on data overlaying on maps. The program R Studio has very similar functions as Arc GIS, and together they can be used to create excellent referential data.

I have worked in previous administrative positions. I worked at Player’s Locker, where I coordinated with resellers on budgets and purchasing products. I also worked with customers on sending out packages, and answering customer complaints. I have also worked as a professional server for 2+ years, where that has taught me to multi-task, be hospitable, be polite, and de-escalate any situation.

I look forward to hearing from you about this opportunity. 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**