

***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

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| --- | --- | --- | --- | --- |
| 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.](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

|  |  |
| --- | --- |
| Employer Name: Dates Employed:    Address: Phone: ( )    Email: Supervisor:    Employer Name: Dates Employed:    Address: Phone: ( ) |  |

Email: Supervisor:

|  |  |
| --- | --- |
| Employer Name: Dates Employed:    Address: Phone: ( )    Email: Supervisor:    Employer Name: Dates Employed:    Address: Phone: ( ) |  |

Email: Supervisor:

# References

1. Name: Phone Number ( ) Relationship:

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**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.*

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

**DEMOGRAPHIC:**

Ethnicity- Hispanic/ Cuban

Married

No children