

Emily M. Foster

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Education

UNIVERSITY OF FLORIDA, Gainesville, Florida

Master of Science in Geomatics, Spring 2010

~ GPA: 3.91 / 4.0

~ Thesis: Patterns of Tree-related Damage to Suburban Homes Resulting from Sustained Hurricane Winds (a component of the University's Urban Forest Hurricane Recovery program)

FLORIDA STATE UNIVERSITY, Tallahassee, Florida

Bachelor of Science in Environmental Studies, Spring 2004

~ Minors: Geography, Math, Chemistry, and Criminology

Teaching Experience at UF

Teaching Assistant, FOR3434C Forest Res. Info. Sys., Summer 2009, 2008

- Lead ArcGIS lab twice a week for six weeks; produce lab tutorials and exams; grade student submissions

Field Lab Assistant, FOR3430C Forest Mensuration, Spring 2009

- Facilitate teaching of standing tree volume estimation, forest inventory techniques, stand volume estimation, sampling design, and basic statistical principles

Lab Assistant, SUR3393 Geographic Information Systems, Fall 2008

- Assist students with GIS assignments

Professional Experience

City of Port St. Lucie, Port St. Lucie, Florida

GIS Address Technician (2006-2007)

- Responsible for the assignment of addresses, including commercial and residential, within the city limits, maintain City's address database, and enforce proper addressing guidelines

WilsonMiller Inc., Tallahassee, Florida

GIS Analyst (2004-2006)

GIS Projects

- *Digital Parcel Conversion Projects for Franklin and Suwannee Counties, Florida* – Demonstrated management skills while directing GIS interns and increasing product output after taking over as assistant project manager responsible for the development and preparation of the counties' base maps. Determined property lines from aerial photography, legal descriptions, subdivision plats, CCRs, and additional sources of data. Also included is client training and technical support.

- *Utility Map Conversion Projects in Manatee and Charlotte County, Florida* – GIS team member responsible for the implementation of GIS as a facilities management tool for water, wastewater, irrigation, and drainage utilities. Tasks include geodatabase development, geometric network creation, and AutoCAD-to-GIS data conversion. The final GIS project will be used to improve efficiency in system maintenance, budget preparation, and field operations.

Restoration Studies

- *Big Talbot Island, Little Talbot Island, and Fort George Island State Park, Duval County, Florida* – Researched and retrieved historic aerial photographs used to compare wetland extents from 1940's to today. Successfully converted and rectified historic aerials for GIS use.

Rural Lands Stewardship Agreement Projects

- *Private Property, St. Lucie County, Florida* – GIS team member assisting ecologists with the preparation of all maps used in field surveys. Other duties include data generation, such as digitizing animal habitats, flow-ways, and wetland retention areas using aerial photographs as a backdrop, to assess the potential for listed species occurrences. Researched and rectified historic aerial photographs usable for GIS analyses.

Wetland Permitting/Listed Species Surveys

- *Natural Features Inventory (NFI), Leon County, Florida* – GIS analyst responsible for all maps included in the preparation of an NFI report to assess existing species, habitat, and wetland conditions within the project boundary. Also provided assistance in the field while conducting surveys with ecologists including using a Garmin GPS device. Specific projects include: Dempsey Mayo Road Sidewalk Project, Lake Henrietta Trailhead, and Tallahassee Chrysler/Dodge/Jeep Dealership Site Development.

Internships and Volunteer Activities

Field Volunteer, The Nature Conservancy; Bristol, Florida (2005-2006)

- Member of Invasive Species Working Group formed with funding from US Fish and Wildlife Service

Permitting Intern, FDEP; Tallahassee, Florida (Spring 2004)

- Gained a conceptual knowledge of statutes and laws pertaining to permitting

GIS Intern, FDEP; Tallahassee, Florida (Summer 2003)

- Worked on the Florida Ecological Restoration Inventory project within the Bureau of Submerged Lands and Resources

Special Skills

Ability to handle multiple projects simultaneously under tight deadlines; responsible; excellent communication skills; flexible and easily adaptable; highly organized; hard-working; strong interpersonal skills; time efficient; excellent trainer.

Professional Affiliations

- ~ *Member, Florida Surveying and Mapping Society*
- ~ *Member, American Society for Photogrammetry and Remote Sensing*

Computer Skills

Proficient in ESRI ArcInfo 9.3, MS Windows, Word, Excel, Desktop Computers (hardware; software). Familiar with MS Access, MS Photo Editor, Garmin GPS units, Trimble Pathfinder GPS unit. Basic knowledge of AutoCAD, Erdas Imagine, and Surveying Equipment.

Related Coursework

Visual Basic Editor/Model Builder, Landscape Ecology, Photogrammetry, Least Squares, Map Analysis, Water Resources, Geographic Information Systems, Environmental Planning and Resource Management, Environmental Field Methods, Introduction to Remote Sensing, Methods of Social Research, Calculus, Chemistry, Biology, General Ecology, Environmental Science, Physical Geology, Physical Geography.

References

Dr. Francisco Escobedo
Forestry Dept. University of Florida
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Dr. Ahmed Mohamed
Geomatics Dept. University of Florida
amohamed@ufl.edu; 352-392-3465

Human Resources
City of Port St. Lucie (FL)
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Human Resources
WilsonMiller, Inc.
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Available for relocation; salary negotiable.