

# Curriculum Vitae

## Vimaliz Rodríguez Guzmán

### PERSONAL INFORMATION

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**Date of birth:** August 3, 1982  
**Place of birth:** Caguas, Puerto Rico  
**E-mail:** vimaliz@gmail.com / vimaliz.rodriguez@aphis.usda.gov

### EDUCATION

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M.S. – Geology  
University of Puerto Rico at Mayagüez, 2009  
GPA: 4.00

B.S. - Biology/Wildlife Management  
University of Puerto Rico at Humacao, 2004  
GPA: 3.55

High School José Campeche, San Lorenzo, 2000  
GPA: 4.00

### SPECIALIZATION COURSES

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Vascular Plants Taxonomy	Wildlife Management
Biology of Terrestrial Vertebrates of P.R.	Applications of Remote Sensing and GIS in Biology
Population Ecology	Advanced Geological Remote Sensing
Community Ecology	Cartography and Geodesy in Geosciences

### PROFESSIONAL INTERESTS

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To prepare myself to work comprehensively with Remote Sensing and GIS technologies to study natural processes. I am interested to have a career which promotes conservation of natural resources to improve the quality of life.

### WORK EXPERIENCE

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#### **2008 to Present: GIS Analyst/PPQ Technician/LA**

WORK PLACE: USDA APHIS PPQ, Carolina, Puerto Rico

DESCRIPTION: Development and maintenance of geodatabases. Perform spatial analyses to evaluate pest detection monitoring practices and surveys. Generate information for decision making and/or complement parallel studies.

#### **2006 summer: Physical Science Technician (Intern)**

WORK PLACE: United States Geological Survey (USGS), Reston, VA

DESCRIPTION: GIS data acquisition and processing to prepare a Maryland GIS dataset to evaluate risk mitigation strategies. Existing data was also evaluated and corrected with more accurate and updated information.

**2005: WAE-Soil Conservation Aid**

WORK PLACE: United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), Field Office in Humacao, Puerto Rico

DESCRIPTION: Map development of the participating farms to prepare their conservation plans. Visit farms to certify the good quality of the different conservation practices.

**2005: Intern**

WORK PLACE: GIS Lab, Conservation & Research Center, Front Royal, VA

DESCRIPTION: Collaboration with the preparation of a manual (Using GIS and Remote Sensing in Conservation Biology in Puerto Rico), which was part of a course offered in Puerto Rico (SIG PR 2005); teaching.

**2004: Intern**

WORK PLACE: Center for Applied Tropical Ecology and Conservation (CATEC), UPR-Rio Piedras

DESCRIPTION: Sort and identify insects as part of the project *Biodiversity of Insects in Mona Island Reserve, Puerto Rico*

**2002- 2004: Laboratory Technician Assistant**

WORK PLACE: Biology Laboratory, University of Puerto Rico, Humacao

DESCRIPTION: Prepare the laboratory for the biology courses

**PRESENTATIONS**

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**Remote Sensing of Suspended Sediments in a Tropical Open Bay**

DATE: March 11, 2009

PLACE: NOAA CREST SITE VISIT, COLLEGE UNIVERSITY OF NEW YORK, NY

**Remote Sensing and Bio-optical properties in Mayagüez Bay**

DATE: November 14, 2008

PLACE: PERCEPCION REMOTA Y SISTEMAS DE INFORMACIÓN GEOGRÁFICA DE PUERTO RICO (PRYSIG), UPR-MAYAGUEZ, PUERTO RICO

**Developing a method to monitor sedimentation processes in Mayagüez Bay using MODIS data**

DATE: April 25, 2008

PLACE: XXVII SIMPOSIO DE LA FLORA Y LA FAUNA DEL CARIBE, UPR- HUMACAO, PUERTO RICO

DATE: February 20-22, 2008

PLACE: SIXTH ANNUAL NOAA-CREST SYMPOSIUM, MAYAGÜEZ, PUERTO RICO

DATE: April 10<sup>th</sup>, 2008

PLACE: 13<sup>rd</sup> Annual Sigma Xi Day, Mayaguez, Puerto Rico

**Monitoring sedimentation processes using a GIS based model and MODIS images**

DATE: June 20, 2007

PLACE: 4<sup>th</sup> Annual NOAA/NESDIS/StAR/CoRP Symposium, College Park, Maryland

**Flying insects associated with orchid *Lepanthes sp.* in El Verde, Puerto Rico**

DATE: March 13<sup>th</sup>, 2004

PLACE: 39<sup>th</sup> ACS Junior Technical Meeting, University of Puerto Rico in Humacao

## Diversity of aquatic invertebrates associated with *Heliconia caribaea* in El Verde, Puerto Rico

DATE: May 2<sup>nd</sup>, 2003

PLACE: XXII Simposio de la Flora y la Fauna del Caribe, University of Puerto Rico in Humacao

### ACHIEVEMENTS AND AWARDS

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- 2008 Exxon Mobile Award to attend to the field trip based course: Control of Distribution Porosity and Diagenesis in the southeast Spain Carbonate Complex, Almería, Spain
- 2007 2<sup>nd</sup> Place Poster Winner in the 4<sup>th</sup> Annual NOAA/NESDIS/StAR/CoRP Symposium, MD
- 2006 Graduate Research Fellowship by NOAA Cooperative Remote Sensing Science and Technology Center NOAA-CREST Grant no. NA06OAR4810162
- 2003 Undergraduate Research Fellowship by Puerto Rico Louis Stroke Alliance for Minority Participation (PR-LSAMP)

### SKILLS

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Skillful working with computers. Extensive experience preparing written reports, posters and multimedia presentations using basic (e.g. Microsoft Office Suites) and specialized (e.g. InfoStat, Origin, Surfer) software. Fundamental knowledge in the usage and applications of image processing and GIS software: *ArcGIS*, *ENVI*, *SeaDAS*, *IDRISI* and *ERDAS*. Experience in the collection of field data incorporating Global Positioning Systems (GPS) technologies.

### LANGUAGES

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Bilingual: Spanish & English

### REFERENCES

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Dr. Fernando Gilbes (Graduate school mentor)  
Geology Department  
University of Puerto Rico  
Mayagüez, Puerto Rico  
TEL.: (787) 832-4040-ext.3000  
E-mail: fernando.gilbes@upr.edu

Dr. Ariel Díaz (Undergraduate school mentor)  
Biology Department  
University of Puerto Rico  
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