

PATRINA LEANDREA BLY

PERMANENT ADDRESS

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TEMPORARY ADDRESS

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EDUCATION

- May 2001 – Present. **Elizabeth City State University**, Elizabeth City, NC *Cumulative GPA: 3.8*
- Master of Science in Mathematics with Dual Concentration in Remote Sensing/Applied Mathematics
 - *Expected Graduation: May 2014*
- August 2007 – May 2011 **Elizabeth City State University**, Elizabeth City NC *Cumulative GPA: 3.57*
- Bachelor of Science in Mathematics with Concentration: Secondary Education

RELEVANT COURSEWORK

Mathematical Modeling, Applied Statistics, Discrete Methods, Differential Equations, Computer Science, Digital Image Processing & Analysis, Geographical Information Systems, Geophysical Modeling, Mathematical Modeling, Advanced Linear Algebra, Numerical Analysis, Complex Analysis

TECHNICAL SKILLS

Languages: Visual Basic, C++, HTML

Operating Systems: Mac OS X, Windows, Linux

Software/Applications: ESRI ArcGIS, Adobe Photoshop, Adobe Dreamweaver, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, ENVI, TeraScan, Mathematica, Matlab, SPSS, Oracle SQL Developer, ATCOR 2/3, Blackboard

INTERNSHIP/WORK EXPERIENCE

Elizabeth City State University

Graduate Assistant *Elizabeth City, NC* *Present*

- Assist with mentorship of undergraduate research groups during summer and academic semesters
- Development of monitoring system for tracking of past STEM students
- Provide services to NASA NICE community as Digital Help Desk
- Aid in the organization and implementation of educational outreach programs
- Production of time-series monitoring assessment for Great Dismal Swamp

National Oceanic and Atmospheric Administration

NOAA Southeast Fisheries Science Center (SEFSC) Intern *Miami, FL* *Summer 2010*

- Produced spatial assessment of 2010 Deep Water Horizon incident using GIS
- Used Oracle SQL developer to identify benthic permitted fisheries within vessel monitoring system (VMS) database
- Monitored major coral species in the effected area and tracked fishery closures
- Presented findings at NOAA Symposium in Washington, DC

NOAA National Ocean Service (NOS) Intern *Silver Spring, MD* *Summer 2009*

- SOURCES STUDY GIS DEVELOPMENT
- Used Remote Sensing Imagery and developed coordinate database to confirm findings
- Developed GIS mapping agent utilized for further research
- Presented findings at NOAA Symposium in Silver Spring, MD

CONFERENCES ATTENDED/PRESENTED (*presentation)

Association of Computer and Information Sciences and Engineering Departments at Minority Institutions (ADMI)
2013, Virginia Beach, VA*

Black Engineer of the Year Awards (BEYA)- 2009, 2010, 2013

African Association of Remote Sensing of the Environment (AARSE) 2012, Morocco, Africa*
IEEE International Geoscience and Remote Sensing Symposium (IGARSS) 2010, Honolulu, HI, July 2010 *
2009 American Geophysical Union Fall Meeting San Francisco, CA, December 2009 *
NOAA Educational Partnership Program Fifth Education and Science Forum 2009 Washington, DC, November 2009 *
ADMI 2009, Baltimore, MD*
Super Computing Conference 2008, Austin Texas November 2008
IEEE International Geosciences and Remote Sensing Symposium (IGARSS) 2008, Boston, MA*

PROFESSIONAL ACTIVITIES/ORGANIZATIONS

AARSE 2012 – present
Institute of Electrical and Electronics Engineers Geoscience and Remote Sensing Society (IEEE GRSS) 2008 – present
ADMI 2009 – present
AGU 2009 – 2011

PUBLICATIONS

Bly, P., Edwards, M., The Applicability of Geographical Information Systems (GIS) and Remote Sensing in Identifying Contributors of the Containment Polybrominated Diphenyl Ethers (PBDE's) with the NOAA National Status & Trends Mussel Watch Program, IEEE- Geoscience and Remote Sensing Society IGARSS Conference, Honolulu, HI, July 2010
Brinker, E., Branch, D., Bly, P., Vick, C., Jefferson, M., Submerged Aquatic Vegetation Habitat Product Development: On-Screen Digitizing and Spatial Analysis of Core Sound, IEEE- Geoscience and Remote Sensing Society IGARSS Conference, Honolulu, HI, July 2010