

**KEISHA N. JOHNSON**  
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### **EDUCATION**

The Pennsylvania State University	Ph.D, Soil Science (in progress)
University of Maryland Eastern Shore	M.S., Soil and Water Quality, 2004
University of Maryland Eastern Shore	B.S., Biology, 1998

### **EXPERIENCE**

<b>The Pennsylvania State University</b>	<b>University Park, PA</b>
<b>Graduate Research Assistant</b>	<b>2003-present</b>
<ul style="list-style-type: none"><li>• Work with advisor and USDA-ARS scientists to conduct research on nutrient management study, “Effect of Manure Management on Phosphorus Transport”.</li><li>• Taught soil science labs in Crop and Soil Science Department (Soil Fertility and Fertilizers-SOILS 402 and Introduction to Soils- SOILS 101)</li><li>• Serve as the graduate student representative for Crop and Soil Science Department</li><li>• Participated in 2-week integrated pest management field experience in Central America- Belize.</li></ul>	
<b>The Pennsylvania State University</b>	<b>University Park, PA</b>
<b>Camp Counselor</b>	<b>July, 2005</b>
<ul style="list-style-type: none"><li>• Supervised, transported and assisted high school students with one week Food and Agriculture Science Institute Program.</li></ul>	
<b>University of Maryland Eastern Shore</b>	<b>Princess Anne, MD</b>
<b>Graduate Research Assistant</b>	<b>2000-2003</b>
<ul style="list-style-type: none"><li>• Conducted research on a nutrient management study, “Use of Coal Combustion By-products to Reduce Phosphorus Solubility and Movement into Water Resources”.</li><li>• Collected, measured and statistically analyzed runoff water, sediment and plant samples for nitrogen, phosphorus, and metal content.</li><li>• Supervised undergraduate students to assist with field and laboratory research.</li><li>• Received water quality training at the University of Delaware, Iowa State University and The Pennsylvania State University.</li></ul>	
<b>University of Maryland Eastern Shore</b>	<b>Princess Anne, MD</b>
<b>Math and Science Specialist</b>	<b>June-July 2002, 2003</b>
<ul style="list-style-type: none"><li>• Created and taught math and science curriculum for youth (10-16yrs) for National Youth Sports Program (NYSP).</li><li>• Organized science related tours (farm, aquaculture and environmental science).</li><li>• Created and assisted other professional staff with lesson plans of daily classroom activities/experiments.</li><li>• Managed \$3500 budget for math and science component of program.</li></ul>	

**Metropolitan United Methodist Church  
After School Tutoring Program Coordinator**

**Princess Anne, MD  
Oct 2000-2002**

- Prepared educational, cultural, arts and crafts activities/lessons for and tutored primary, middle and high school children in math, science, social studies and English.
- Recruited and conducted orientation of new tutors.
- Designed promotional materials.

**Somerset County Department of Technical Planning and Zoning**

**Geographic Information System (GIS) Intern**

**October- December 2001**

- Created and updated legends, critical area boundaries and habitat usage on critical area habitat overlays in Somerset County.
- Used Arc View GIS and Maryland Property View to create themes for agricultural preservation easements and districts.

**University of Maryland Eastern Shore  
Louis Stokes (AMP) Program Mentor**

**Princess Anne, MD  
July- August 2001**

- Mentored and introduced in-coming freshman with concepts of research.
- Supervised students with field collection and laboratory analysis of water samples.
- Assisted students with the preparation of power-point presentation of summer research.

**U.S. Fish and Wildlife Service Chesapeake Bay Field Office  
Fish and Wildlife Biologist,**

**Annapolis, MD  
May 2000- Sept 2000**

- Conducted on and off refuge investigations to assess contaminant impacts in the Chesapeake Bay Watershed and wrote technical reports.
- Served as assistant field crew leader and profiled in PBS television show “Real Science” for frog malformation study.
- Reviewed small watershed grants.
- Participated in oil spill response (Newington, VA and Prince Georges MD).

**U.S. Fish and Wildlife Service Chesapeake Bay Field Office  
Biological Science Technician**

**Annapolis, MD  
May 1998- May 2000**

- Assisted biologists with field research, data analysis, sample management (ECDMS database) and preparation of technical reports. Field experience includes amphibian, terrestrial, and aquatic sampling techniques, stream and wetland monitoring and oil spill response.
- Reviewed National Pollutant Discharge Elimination System (NPDES) and dredging permits and MD State Highway Administration wetland mitigation sites.
- Co-managed office motor pool fleet and created year-end reports.

**U.S. Fish and Wildlife Service Chesapeake Bay Field Office  
COOP Student**

**Annapolis, MD  
Jan – May 1998**

- Assisted biologist with field research including: sturgeon and coastal bird gillnet survey, submerged aquatic vegetation restoration, and environmental contaminant studies.
- Designed and wrote proposal for environmental contaminants activity board.
- Served on the Alternative Work Schedule Task Force and drafted implementation plans for new work schedule.

**Maryland Cooperative Fish and Wildlife Research Unit  
Student Research Assistant, UMES**

**Princess Anne, MD  
Oct-Dec 1997**

- Assisted graduate students with literature searches and research projects at campus aquaculture facility.
- Performed tasks for the operational function of the unit including secretarial duties.

**U.S. Fish and Wildlife Service Chesapeake Bay Field Office  
Biological Science Technician**

**Annapolis, MD  
August 1997**

- Assisted biologist with field research using a total station to survey farm land for a wetland restoration project in Western, MD.
- Assisted with 21-day frog lab experiment exposing frogs to different levels of dichlorodiphenyltrichloro-ethane (DDT) and measured cytochrome P-450 in liver tissue at Patuxent Wildlife Research Center, Bowie, MD.
- Performed lab analysis to test for polycyclic aromatic hydrocarbons (PAHs) in sediments collected from Neabsco Creek.

**Cabeza Prieta National Wildlife Refuge  
Biological Science Technician**

**Ajo, Arizona  
June-July 1997**

- Assisted biologists with desert mammal and vegetation surveys using global positioning system (GPS), geographic information system (GIS) and line transects.
- Assisted graduate students from the University of Arizona with electro-fishing (exotic German Brown Trout) and restocking (endangered Apache Trout) in streams of the White Mountain Apache Reservation.
- Assisted with collaboration of refuge issues with other agencies (U.S. Border Patrol, U.S. Air Force, Arizona Game and Fish and the National Park Service).

**National Institute on Aging Gerontology Research Center  
Summer Intern, Laboratory of Biological Chemistry**

**Baltimore, MD  
May-August 1996**

- Conducted and presented a poster of summer research project, "Creation and use of Competimer DNA for the PCR Quantification of the Common Deletion in Rhesus Mitochondrial DNA".
- Performed lab analysis using DNA sequencing, gel electrophoresis, polymerase chain reaction (PCR), mini preps, protein extractions, bacterial transformations and used amplifier and fluorescence spectrophotometer.
- Participated in laboratory training, working safely with HIV and other blood borne pathogens and radiation safety.
- Attended weekly journal club meetings, and other seminars held at Johns Hopkins Bay View Medical Center.

**PUBLICATIONS**

**Johnson, K.N.,** A.L. Allen, P.J. A. Kleinman, W. Stout, and A.N. Sharpley. 2004. Use of coal combustion byproducts to reduce phosphorus solubility and movement into water resources. Master thesis, University of Maryland Eastern Shore.

**Johnson, K.N.,** A.E. Pinkney, M.J. Melancon and D.J. Hoffman. 2001. Investigation of cytochrome P450 activity in great blue herons (*Ardea herodias*) from Mason Neck National Wildlife Refuge, Fairfax, Virginia. Final Report. U.S. Fish and Wildlife Service, Chesapeake Bay Field Office, Annapolis, MD CBFO-C01-02

Pinkney, A.E., B.L. McGee, D.R. Murphy, P.C. McGowan, **K.N. Johnson**, and D.Ray.  
2000. Use of caged wedge clams (*Rangia cuneata*) and semi-permeable membrane devices (SPMDs) to monitor contaminants in the Potomac River near the old landfill, Marine Corps Combat Development Command, Quantico, Virginia. Final Report. U.S. Fish and Wildlife Service, Chesapeake Bay Field Office, Annapolis, MD CBFO-C00-01.

Pinkney, A.E., D.R. Murphy, P.C. McGowan, B.L. McGee, **K.N. Johnson** and L. Dimico.  
1999. Ecological risk assessment: Quantico Embayment, Marine98-0e Corps Combat Development Command, Quantico, Virginia. Revised Final Report. U.S. Fish and Wildlife Service, Chesapeake Bay Field Office, Annapolis, MD. CBFO-C99-03

Pinkney, A.E. and **K. N. Johnson**. 1998. Desktop Ecological Risk Assessment, Bainbridge Naval Training Center, Port Deposit, Maryland. Final Report. U.S. Fish and Wildlife Service, Chesapeake Bay Field Office, Annapolis, MD. CBFO-C8-04

### **JOB RELATED TRAINING**

Lachat Flow Injection Apparatus Training, 2003  
Hazardous Waste Operation and Emergency Response Certification, 1999  
Oil Spill Drill (EQUIVA) 1999  
U.S. Environmental Protection Agency Water Quality Standards Academy, 1999  
Metropolitan Washington Fish and Bird Kill Necropsy Workshop, 1999  
U.S. Fish and Wildlife Service Ecological Services Basic Training, 1998  
U.S. Fish and Wildlife Service Motorboat Operation Certification, 1998  
U.S. Fish and Wildlife Service Defensive Driving Certification, 1998  
Rapid Bioassessment Protocol, 1998  
Fire Arms and Hunter's Safety Certification, 1997  
CPR and First Aid Certification, 1997

### **AWARDS**

Sloan Scholar- Penn State University, 2005  
Certificate of Appreciation, MANRRS Region 1 Graduate Vice President, 2005  
First Place Poster Presentation, Penn State University Graduate Research Exhibition, 2004  
3<sup>rd</sup> Place Poster Presentation, Penn State University, Department of Crop and Soil Science, 2004  
Professional Staff of the Year , National Youth Sports Program (NYSP), 2003, 2002  
National Deans List, 2001  
Certificate of Excellence, MANRRS Conference Poster Presentation, 2001  
U.S. Fish and Wildlife Service, On the Spot Award, 2000  
U.S. Fish and Wildlife Service Participation Award (Region 5 Student)

### **ORGANIZATIONS**

American Society of Agronomy (ASA)  
Minorities in Agriculture Natural Resources and Related Sciences (MANRRS)

- 2005-2006 Region I Graduate Vice-President
- 2004-2005 Region I Graduate Vice-President

Black Graduate Student Association (BGSA)

- 2004-2005 Achievement Conference Planning Committee, Co-chair
- 2004-2005 Achievement Conference Planning Committee

Delta Sigma Theta Sorority, Inc, 2005-2006 Secretary

### **COMPUTER SKILLS**

ArcView GIS, SAS, Sigma Stat, Minitab, Microsoft Office (Word, Excel, Power-point, Front Page)

### **REFERENCES**

AVAILABLE UPON REQUEST