

Julie Armstrong

NSF REU Winner 2006

NSF-NIEHS Oceans & Human Health Center

University of Miami-Rosenstiel School of Marine & Atmospheric Science

4600 Rickenbacker Causeway, East Grosvenor Room E211

Miami, FL 33149

EDUCATION

University of Miami, Coral Gables, FL

Bachelor of Science in Environmental Engineering, minor in Mathematics, 12/07

Bachelor of Science in Ecosystem Science and Policy, 12/07

Dean's List, Provost's List, President's List

GPA 3.81

WORK HISTORY

Summer Undergraduate Research Fellow at Purdue University – Civil Engineering Laboratory, May – August 2005

- Researched redox reactions for the removal of chlorinated organic solvents from groundwater supplies
- Conducted pilot scale research experiments, under the guidance of Professor Suresh Rao, involving chemical oxidation of PCE by KMnO_4 and reductive dechlorination of PCE (and its byproducts) by Fe^0
- Formalized results in technical paper entitled "In-Situ Redox Technologies for Industrial Solvents"
- Worked at a controlled wetland site, in Hobart, Indiana under PhD candidate James Hunter, designed to reduce sulfur contamination in the soil that had been leaching from a nearby embankment

Office Assistant Manager at the Holistic Medical Center, July 2002 – August 2003 (Silver Spring, MD)

- Digitized patient health history files
- Billed patients and insurance companies for services obtained by patient at the Holistic Medical Center
- Front desk receptionists / Product inventory

Pool Supervisor / Lifeguard with U.S. Aquatics, June – August 2004 (Adelphi, MD)

- Open and closed pool facilities, while maintaining a clean and safe environment
- Ensured the safety of patrons using the aquatic facilities

Math and Science Tutor at the Academic Resource Center, University of Miami September 2004 – May 2005

- Provided supplemental instruction to students taking courses in calculus, physics, biology, and geology

HONOR SOCIETIES / PROFESSIONAL AFFILIATIONS

- National Society of Black Engineers (NSBE), Senator (2004-5), Public Relations (2005-7)
- Florida Water Environmental Association
- *Chi Epsilon* – Civil Engineering Honor Society
- *Tau Beta Pi* – National Engineering Honor Society
- *Omicron Delta Kappa* – National Leadership Honor Society

VOLUNTEER WORK

Impact NOW New Orleans Work Project (Hurricane Katrina Relief Effort) Group Leader

- Gutted houses impacted by Hurricane Katrina
- Distributed food to displaced residents

Great Smoky Mountain National Park - Land Preservation

- Removed non-native species from park lands and relocated structural facilities
- GPS locating and counting of Gastropods

Project Oceanology, Long Island Sound, Connecticut

- Measured chemicals and biological parameters in the sound
- Weighed, sorted, and marked fish, crabs, and lobsters

Marine Mammal Stranding Team

- Rehabilitated and released stranded marine mammals into their natural habitat