

Shannon Zaret
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Education

Undergraduate Allegheny College – Meadville,
Pennsylvania Bachelor of Science in Environmental
Science
Concentration in Conservation Biology Minor in
Spanish Cumulative GPA: 3.46

Graduated May 2010

Major GPA: 3.55 Advisor: Dr Richard Bowden

Thesis: The Effects of Garlic Mustard Leachate on Native Pennsylvania Seed Germination

Graduate The Ohio State University In Progress Masters in Environmental Science Advisor: Dr Allison Snow

Study Abroad

School for Field Studies, Atenas, Costa Rica 8/2008-12/2008 Research & Field Work Student directed research: Assessed aboveground carbon sequestration of different agricultural agroforestry systems: conventional, sustainable, and organic coffee farms in Costa Rica. Assessed effects of stream pollution in Carrara National Park Examined awareness of climate change among various Costa Rican demographics Determined the feasibility of a recycling program establishment in el Sur Coursework: Agro-ecology, biodiversity protection, economic development, urban sprawl, population growth, waste management, and water resources Activities: Contributed to building hydroponics facility on campus, upkeep and care of garden, organic herbicide administration Nicaragua: Conducted research at Ometepe Biological station regarding the use of agro-forestry in achieving carbon neutrality

Work History and Experience

Service Learning - Metroparks of Columbus Oh, Prairie Restoration Project
Responsibilities - seed collecting, cleaning, and planting

Employment - Upper Raritan Watershed Association/Friends of Hopewell Valley Open Space Summer 2010 Title: Central Jersey Invasive Species Task Force Responsibilities: Identify and eradicate over 76 emerging invasive species within central Jersey's state protected land. Created database and GIS maps of locations and attributes of all confirmed instances of infestation. Certified as an herbicide operator in the state of New Jersey Educational Programs

Internship - The Erie National Wildlife Refuge 9/2009 - Present Responsibilities: Design and develop trail guide to be distributed to Park visitors Educational Programs: Creating interactive learning program for visiting 4th grade students. The program is focused on understanding the ecological balance between the environment and human interaction.

Employment - Morris County Parks, NJ, 6/2009 -8/2009 Responsibilities: Contributed to the mapping of invasive species (plant life) at Pyramid Mountain. Using GPS equipment, mapped and identify the distribution of invasive species in the park. Educational Programs: Assisted environmental staff with the 2009 summer school program. Students ranged from K – high school. Program consisted of weekly “theme” classroom activities and outdoor nature hikes.

Internship - Tamarack Wildlife Rehabilitation & Education Center, Saegertown, PA 1/2009-6/2009
Responsibilities: Wildlife capture, maintenance and upkeep of raptor enclosures, food preparation and feeding, providing appropriate medical treatment, bird handling and wildlife release Direct Research: Assessed the significance of lead poisoning in Bald Eagles in the state of Pennsylvania. Gathered and analyzed data from P.A. State Wildlife Rehabilitation Commission. Educational Programs: Participated in delivering educational programs for students grades K-6 with a focus on wildlife conservation

Employment - McDonalds Restaurant 5/2006-8/2008 Responsibilities: Fulfill customers orders, operated point-of-sale terminal, prepare food “grill, fryer, etc.”, maintain inventory, cleaning and overall upkeep of workspace and dining facility.

Publications and Conferences

Publications

Coauthor - Siting Wind at Acutec Precision and Manufacturing, Inc. Saegertown Pa., an Environmental Impact Assessment Publication CEED 2009 – 1A Publication of the Allegheny College Center for Economic and Environmental Development

Submitted for publication - (coauthor) A Review of Paper Purchasing Policy Options for Allegheny College “see below”

Symposium Presentations and Conferences

Attended and presented a paper titled “A Review of Paper Purchasing Policy Options for Allegheny College” at the 2009 annual conference of the Association for the Advancement of Sustainability in Higher Education (AASHE) in Indianapolis. The presentation focused on a semester long research project on sustainable paper purchasing at Allegheny College.

Relevant Coursework

Biology 1 and 2, Chemistry 1 and 2, Conservation Biology, Genetics, Entomology, Investigative approaches in Biology, Tropical Ecology, Field Geology, Calculus 1, Sustainable Resource Management, Environmental Economics, Environmental Science 1 and 2, Junior Seminar (sustainable paper purchasing), Ecosystem Management Policy

Research Experience

Above and Below Ground Carbon Sequestration Potential of a Second Growth Forest: Can Allegheny College Become Carbon Neutral (Spring 2007) How Can Allegheny’s North Village Apartment Complex Reach Leeds Gold Certification (Spring 2007) Assessing the Methodology of Incorporating Climate Change Education into Grade Schools (Fall 2007) Modeling Gene Flow in Populations of Grizzly Bears at Yellowstone National Park (Spring 2008) The Relationship Between Predators of the Ball Gall Fly *Eurosta solidaginis* and Proximity to a Water Source (Spring 2009) Modeling Effects of Possible 2, 4-D Leaching on Organic Tomato Plant Peroxidase Activity (Spring 2009) The Effectiveness of prescribed UV Treatment on *Serratia marcescens* (Spring 2009) The Mutagenic effects of Clairol Nice N’ Easy Hair Dye on Bacterial Strains of Salmonella *S. typhimurium* (Fall 2009)

Distinctions, Leadership, & Activities

Alden Scholar, academic recognition for 3.2 or higher GPA

Allegheny Trustee Scholar

Food Rescue - collecting unused food after catered events and donating them to the food shelter

Amnesty International

Environmental Science Club

Students for Environmental Awareness

Up Till Dawn - Campus letter writing campaign to raise money for St Jude's Children's Research Hospital

Delta Delta Delta Women's Fraternity, Alumnae Member February 2008-May 2010 Participated in campus

Philanthropy events for St. Jude's Children's Hospital Recruitment Party Chair - planned the events during formal recruitment

Skills

GPS software, basic GIS, tropical and native plant identification, tropical and native bird identification, certified herbicide operator, invasive plant identification, fluent in Spanish, Microsoft Word, Excel, Powerpoint, and Photoshop