

PLANT PROTECTION AND QUARANTINE TECHNICIAN

Summary

Environmental Biologist and experienced researcher with expertise in data collection and study. Analytical and detail-oriented.

Highlights

- Certificate study in Wetlands Identification and Delineation
- Proficient in Microsoft Office suite
- Excellent verbal and written communication skills
- Knowledgeable about invasive insects and plant hosts
- Undergraduate thesis study "Species Diversity of Lepidoptera in Oak Hickory and Northern Hardwood Forests of Luzerne County, PA"

Accomplishments

- Keystone College Academic Honor Award -Dean's List Spring 2011 and Fall 2008
- Mildred Wrigley Ryder Scholarship Fall 2009 and Spring 2010
- Joseph Sirotnak '66, Esq., Memorial Scholarship Fall 2007 and Spring 2009

Experience

Plant Protection and Quarantine Technician

May 2011 to August 2011 Company Name - City , State

Regional specialist independently conducting Asian Long-Horned Beetle and Emerald Ash Borer ground based visual surveys in eight northeastern Pennsylvania counties.

Implemented PPQ standards which safeguards agriculture and natural resources from risks associated with plant pests to ensure an abundant, high-quality forest canopy.

Employed industry standards effectively collecting forest and insect field data and reporting results in a timely manner.

Forest Insect Pest Aide I

May 2009 to August 2009 Company Name - City , State

Forest Insect Pest Aide

May 2008 to August 2008 Company Name - City , State

Emerald Ash Borer, Asian Longhorn Beetle, Sirex Wood wasp and apiarian surveys in Lackawanna County, PA (2008) and 10 northeastern Pennsylvania counties (2009).

Accurately identified plant hosts utilizing a dichotomous key, enabling placement, baiting and monitoring of Lindgren Funnel, sugar bait, IPM Tech panel and purple panel insect traps.

Operated and maintained PDA owned 4x4 pickup truck and Panasonic Toughbook computer with Global Mapper and Microsoft Office software.

Trail Steward and Workshop Staff Member

May 2007 to August 2007 Company Name - City , State

Trail maintenance of Keystone College's 160-acre Woodland Campus and Lake Manataka Environmental Field Station, hazardous tree removal and firewood harvest.

Provided field support at Watershed Explorers Workshop performing water quality monitoring of local lakes and streams utilizing Secchi depth, temperature, conductivity, oxygen depth profile, benthic macro invertebrates, taxa richness and fish indices.

Employing methods of electro fishing, seining and kick nets; collection and identification of macrophytes.

Flammulated Owl Research Lab Technician

September 1998 to January 1999 Company Name - City , State

Laboratory analysis and documentation of Flammulated Owl prey delivery video, operating video editing equipment. Field data analysis of nest site foraging habits to determine regional insectivorous dietary selection, consumption, prey density and diversity.

Organized insect collections with stereomicroscope, and invertebrate field guide.

Analysis of insect energy content, utilizing caloric centrifuge, to determine caloric requirements of individual nests.

Results provided support of undergraduate independent study at the University of Nevada-Reno and David P. Arsenault's unpublished thesis for the Degree of Masters of Science in Environmental and Natural Resource Science.

Wildlife Biology Field Assistant

May 1998 to September 1998 Company Name - City , State

Assisted in avian field surveys utilizing research data analysis to determine the condition of the current population of Flammulated Owls in western New Mexico.

Collected nest site and microhabitat forest density measurements with Garmin GPS unit, fiberglass tape, spherical densitometer, clinometer, telescoping pinhole camera and video recording equipment during constant monitoring of survey routes along the Continental Divide, New Mexico.

Participated in broadcast surveys, observed nest site selection, flight patterns, observed and collected foraging rates and prey selection data, used targeted mist nets to capture, band and take blood samples for DNA fingerprinting, observed nest and brood habits and fledgling success.

Education

Certificate : Wetland Delineation and Identification , 2012 Rutgers, The State University of New Jersey - City , State , US

Bachelor of Science : Environmental Biology , 2011 Keystone College - City , State , US

Affiliations

Keystone College Eco Club

North American Bird Phenology Program

Certifications

American Red Cross First Aid and CPR training

FEMA Federal Emergency Management Training

Skills

Skillful application of bench chemistry in a lab setting by adhering to standard operating procedures.

Ability to analyze and test basic wet and dry chemistry obtaining qualitative and quantitative chemical measurements.

Capacity to follow recipes and formulate mixtures based on manufacturer's specifications.

Keen technical and mechanical ability.

Strong work ethic and the ability to work collaboratively or independently under a variety of challenging conditions.