

Ima Jobhutin

100 Country Club Rd. • York, PA 17403 • 717-815-1000

EDUCATION

York College of Pennsylvania, York, PA

May 2013

Bachelor of Science, Biology (GPA: 3.5) *only report GPA if it is above 3.0*

Minor: Chemistry, Spanish

RESEARCH EXPERIENCE *(if you present at a professional meeting list that separately)*

Senior Thesis Research Project

October 2011 – April 2013

"Microhabitat and Movement Patterns of Juvenile American Toads at the New Salem Vernal Pool, York County, PA."

Mentor: Dr. Bridgette Hagerty

- Developed and completed a field project to evaluate fine-scale movement patterns in recent metamorphs (*Anaxyrus americanus*) and determined that juveniles disperse longer distances than previously known, which will improve conservation measures.
- Complied with Animal Safety protocols to safely use fluorescent powder techniques to track animal movement
- Communicated the results of my research to the Biology Department faculty and students with a poster presentation and a written manuscript.

Immunology Independent Project

April 2012

- Designed an experiment to compare ability of molecules on toad and salamander skin to kill three common human pathogens
- Presented the possible mechanisms for bacteria killing in an oral presentation

PROFESSIONAL EXPERIENCE

Lab Assistant, York College of Pennsylvania

January 2011- May 2013

Courses: Fundamentals of Human Biology, Biology I, and Immunology

- Prepared laboratory equipment prior to class each week and assisted with development of laboratory practical exams
- Engaged students and answered questions to improve the laboratory experience
- Followed and enforced OSHA standards for laboratory safety

RELEVANT COURSEWORK

Zoology

Ecology

Animal Physiology

Biostatistics

Marine Ecology of the Chesapeake Bay

Genetics

Evolutionary Biology

Microbiology

TECHNICAL SKILLS *(tailor order and listed skills based on the job you are seeking)*

Molecular Techniques

Gel electrophoresis

Western blot

TGGE electrophoresis

DNA extraction from soil and animal tissue

Bacteria staining procedures

UV Spectrophotometry

Isolation/purification and quantification of nucleic acids and proteins

Enzyme kinetics

Titration curves

Quantitative PCR and standard PCR

Solution/dilution calculations

Field Techniques

UV Fluorescent powder tracking
Quadrat and transect sampling
Coverboard sampling
Wetland delineation
Plant and vertebrate identification
using a dichotomous key
Mapping with ArcGIS

Microscopy Techniques

Bright Field/Dark Field
Phase Contrast
Fluorescence
Scanning Probe Microscopy

Quantitative Fluency and Communication

- Manipulate, display, and analyze data sets using Microsoft Excel and GraphPad Prism
- Critically analyze experimental design using parametric and nonparametric statistics
- Effectively communicate research to the appropriate audience using oral presentations (Powerpoint) and written manuscripts (Microsoft Word)

PROFESSIONAL AFFILIATION

Pennsylvania Academy of Sciences

CERTIFICATIONS

SCUBA Advanced Open Water (PADI)
First Aid and CPR

ADDITIONAL WORK EXPERIENCE (this may or may not be necessary depending on the type of job you are seeking)**Resident Assistant**, York College

August 2011- May 2012

- Responsible for the safety of 30+ transfer and freshman college students living on campus (i.e. reporting conflicts or suspicious activity to the resident life department)
- Developed activities to discuss quality of life issues such as sleep deprivation
- Informed residents of services and programs offered by the college such as academic and medical support

Summer Camp Counselor, Saint Barnabas Parish

July-August 2011

- Responsible for keeping a small group (~14 children) of 4th graders engaged and well-behaved
- Guided group to scheduled activities around the building safely
- Ensured children left with proper guardian

COMMUNITY SERVICE

Judge at the William Penn High School Science Fair
Volunteer at the York Food Bank

April 2012
October 2011 - present