

DANIELLE M. LONG

Permanent Address

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07/24/2989

College Address

813 Thornwood Drive
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EDUCATION

Mercyhurst College, Erie, PA

Graduation Date: May 2011

Cumulative Grade Point Average: 3.833

Bachelor of Arts

Major: Biology

Concentration: Environmental Eco-Systems

University of Toledo

Prospective Graduation: May 2013

MS Candidate

Major: Biology/ Ecology Track

REPRESENTATIVE COURSEWORK

Biology of Insects/Lab

Microbial Genetics

Plant Physiology/Lab

Comparative Vertebrate Anatomy/Lab

Research and Design/ Thesis and Manuscript

Limnology/Lab

Molecular Biology

Principles of Physics I/ Lab(IP)

General Chemistry I & II II/Lab

Organic Chemistry I/Lab(IP)

RESEARCH EXPERIENCE

- ~ Conducting Senior Thesis on algal productivity as an effect of temperature and nutrient availability. 2010
- ~ Leading Independent Research on algal accumulation under various fertility and temperature ranges.
- ~ Understanding lipid production in algae utilizing fluorescent microscopy. 2010-2011
- ~ Using algae as a nutrient filter in local waste water treatment plants. 2009-2011
- ~ Summer of 2011 spent as a pesticide applicator at Presque Isle State Park, was in charge of the invasive species removal project, applying pesticide and managing application records
- ~ Certified with Trimble Juno GPS in training courses, utilized them to record data for application records, spider burrows, and shoreline data for Presque Isle. Summer 2011
- ~ Biosolid application to agricultural fields and the effects of capping versus uncapping drainage tiles in an effort to decrease pathogens in the soil. Fall 2011

PRACTICAL LABORATORY EXPERIENCE/SKILLS

- ~ Sediment core sampling near Lake Erie.
- ~ Macro-invertebrate sampling.
- ~ Knowledge of staining processes in microscopy.
- ~ Water and soil testing with various methodologies,
- ~ Sterile technique.
- ~ ANOVA statistical analysis.
- ~ Research and design development.
- ~ Construction of multiple scientific papers/lab reports
- ~ Experience using ArcGIS
- ~ Trained with Trimble Juno GPS device
- ~ Trained in QAQC
- ~ BSL2 certified
- ~ Familiarity with USGS and EPA methods for detection of E.coli, Salmonella typhi. And f-specific coliphage
- ~ Lab techniques in plate preparation and pouring, and media mixing skills

HONORS/AWARDS

Mercyhurst College Dean's List Scholar, 2008-2009 (4.0 GPA attained), 2009-2010
Mercyhurst College Presidential Scholarship, 2007-2011
Mercyhurst College Phillips Scholarship, 2009-2010, 2010-2011
Mercyhurst College Express Employment Scholarship, 2008-2010
SMART Grant 2009-2010, 2010-2011

ACTIVITIES/COMMUNITY INVOLVEMENT

Mercyhurst College Active Minds, 2007-2010
Mercyhurst College Chemistry Club, 2007-2010
Mercyhurst College Rotaract Club, 2008-2010
Mercyhurst College Student Liaison, 2010-2011
Habitat for Humanity, Fall 2010
Laboratory Research Assistant, 2010-2011

REFERENCES

Available upon request.