

Candice Brothers
1724 Secor Road Apartment C—Toledo OH 43607
Candice.Brothers@rockets.utoledo.edu--440-223-3074

Education

University of Toledo, Toledo Ohio

Degree Expected: May 2014

Masters of Science, Geology

Heidelberg University, Tiffin Ohio,

Degree Earned: May 2012

Bachelor of Science, Environmental Science; German minor

Dean's List

(Fall 2008-Spring 2010)

Summer Abroad in Germany

(Summer 2010)

Relevant Courses

Hydrogeology

Soil Science

Environmental Biology

Glacial Stratigraphy and Geophysics

Environmental and Natural Resource Economics

Ecology

Hydrology

Geographical Information Science

Environmental Sampling and Analysis

Water Pollution Biology

Issues in Environmental Science

Limnology

Calculus 1

Elementary Statistics

Research Experience

Subsurface Geophysical profiling of the Irwin Prairie and Kitty Todd Areas within the Oak Openings Region

(Fall 2013)

- Interpretation of ground penetrating radar (GPR), seismology, electrical resistivity, and well logs to characterize Irwin Prairie and Kitty Todd in the Oak Openings Preserve
- With Dr. Donald Stierman, Dr. David Krantz, Dr. Xiuju Liu, Chis Maike, Joseph Fugate, & Lindsay Sears

Decomposition of Shredded Paper in Two Common Composting Environments

(Summer and Fall 2011)

- Conducted a study on the efficiency of using vermicomposting methods versus aerobic composting methods in the biodegradation of paper
- Developed own method of measuring biodegradation

Map of Schools within a Five-Mile Range of Proposed Site for WTE Plant in Cleveland, OH

(Fall 2011)

- Researched possible impact of a waste to energy plant on Cleveland's air quality and the density of vulnerable populations surrounding the plant
- Created maps using ArcGIS program

Growth of *Microcystis* at Two Cardinal Temperatures

(Fall 2010)

- Conducted a study of the growth of *Microcystis* at two cardinal temperatures

Relevant Work Experience

University of Toledo Graduate Teaching Assistant *8/2012-present*

- Teach introduction to geology courses for undergraduate students
- Grade assignments and exams, and provide tutoring as necessary

Majors Biology Lab Assistant Heidelberg University *9/2011-12/2011*

- Graded weekly lab quizzes
- Assisted lab professor in demonstrations
- Assisted students during dissections
- Tutored students in course material

Biology and Math Tutor Heidelberg University *9/2010-12/2010*

- Coordinated weekly meetings with students
- Aided students with their understanding of the class materials
- Provided students with techniques to improve their study skills

Majors Biology II Lab Assistant Heidelberg University *1/2010--5/2010*

- Set up laboratory for weekly lessons
- Cleaned laboratory after lessons
- Attended weekly meetings to plan lessons

Lab Assistant National Center for Water Quality Research *8/2008—1/2010*

- Chemistry section: prepared water samples for phosphorus and nitrogen testing—Ellen Ewing, Supervisor
- Biology section: collect samples for ditch project, identify and catalogue collected invertebrates in samples, sorted midges—Ken Krieger, supervisor

Presentations

Decomposition of Shredded Paper in Two Common Composting Environments

May 2012

Geology Society of America Northeast Regional Conference Poster Presentation,

Decomposition of Shredded Paper in Two Common Composting Environments

February 2012

Meeting of the Minds Undergraduate Research Conference, Heidelberg University

Growth of Microcystis at Two Cardinal Temperatures

February 2010

Meeting of the Minds Undergraduate Research Conference, Heidelberg University