

CURRICULUM VITAE

Alexander C. Maguffee

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Education:

B.S. in Wildlife Biology

University of Michigan—Flint, 2009-2013
Commencement Date: 17 December 2013
GPA: 3.75
Standings: Graduated with honors

Diploma

Grand Blanc High School
GPA: 3.75
Standings: Graduated with honors

Work Experience:

July 2012—present: Undergraduate Research Opportunity Program (UROP) member and temporary research assistant under Professor Heather Dawson at the University of Michigan—Flint, Flint, MI. I have conducted a wide variety of research involving the invasive sea lamprey. This research includes both field and laboratory components. Field work consists mostly of larval lamprey collection using electroshocking techniques. Laboratory work includes: observing and recording data from recorded video outside of a pheromone-baited lamprey trap; setting up and conducting laboratory experiments on larval lamprey, which includes the use of telemetry software; running a variety of parametric and non-parametric tests on experimental data using SPSS; conducting simulations on a complex computer model based on lamprey control methods, which requires the use of Microsoft Access to manipulate and obtain data; and using R to create quality graphs for publication.

Supervisor: Dr. Heather Dawson
University of Michigan—Flint, Biology Department, 303 E. Kearsley Street, Flint, MI 48502-1950
Voice: (810) 762-3360, hdawson@umflint.edu
Supervisor may be contacted

September 2013—present: Undergraduate Research Opportunity Program (UROP) member under Professor Greg Rybarczyk at the University of Michigan—Flint, Flint, MI. I have conducted research on Flint crime data through the use of Microsoft Excel and ArcGIS. This includes organizing data in Excel and conducting a variety of analyses in ArcMap. The main goal of this project is to determine the predictors that lead to heinous crimes, and provide this information to law enforcement.

Supervisor: Dr. Greg Rybarczyk
University of Michigan—Flint, Department of Earth and Resource Science, 303 E. Kearsley Street, Flint, MI
48502-1950
Voice: (810) 762-3355, grybar@umflint.edu
Supervisor may be contacted

Relevant Courses

Maximum Likelihood Estimation
September 2013—December 2013
Non-credit, online course from Michigan State University

Publications:

Accepted, under review:

Dawson, H.A., Potts, D.D., Maguffee, A.C., O'Connor, L.M.
Feasibility of using Passive Integrated Transponder (PIT) technology to study larval Great Lakes sea lampreys
Journal of Fish and Wildlife Management

Accepted, submitted for review:

Rybarczyk, G., Maguffee, A.C.
Linking Public Health, Social Capital, and Neighborhood Character on Crime Rates using a Spatially Dependent Model
Citiescape, A Journal of Policy Development and Research on Spatial Analysis & Methods

Awards, Nominations, and Groups

Nomination: The Maize & Blue Award

I was nominated for this award, which is the highest honor given to undergraduates at the University of Michigan—Flint. One hundred are nominated based on their grade point averages, and only 12 are selected as recipients based not only on their grades, but also on their drive to serve the university and the community.

Group: Golden Key Honor Society

I have been a member of the Golden Key since my sophomore year at the University of Michigan—Flint.

Presentations

Feasibility of using Passive Integrated Transponder (PIT) technology to study larval Great Lakes sea lampreys
May 2014
22nd Annual Meeting of Minds Undergraduate Research Conference
Oakland University

References:

Dr. Heather A. Dawson
Professor, University of Michigan—Flint Biology Department
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Voice: (810) 762-3360, hdawson@umflint.edu

Dr. Greg Rybarczyk
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