

Matthew M. Haffner

PH.D STUDENT · DEPARTMENT OF GEOGRAPHY · OKLAHOMA STATE UNIVERSITY

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Academic interests: GIScience, Urban Geography, Big Data

Education

Oklahoma State University

DOCTOR OF PHILOSOPHY IN GEOGRAPHY

Stillwater, Oklahoma

Aug. 2014 - Present

- Dissertation: Assessing the Validity of Location Based Social Media
- Advisors: G. Allen Finchum (Chair), Adam Mathews (Research Advisor)

Oklahoma State University

MASTER OF SCIENCE IN GEOGRAPHY

Stillwater, Oklahoma

Aug. 2012 - July 2014

- Thesis: Measuring Social Interaction Potential in Oklahoma City and Tulsa
- Advisor: Hongo Yu

Pittsburg State University

BACHELOR OF SCIENCE IN SECONDARY EDUCATION

Pittsburg, Kansas

Aug. 2007 - May 2012

- Majors: Geography and Mathematics
- GPA: 3.88

Technical Skills

GIS

R, PostGIS, QGIS, MATLAB Mapping Toolbox, ArcGIS

Databases

ElasticSearch, PostgreSQL, MongoDB, MS SQL Server

Programming

Bash, R, Python, SQL, MATLAB, SAS

Shells

Zsh, Bash, Eshell

Operating systems

Arch Linux (Manjaro), Ubuntu, Fedora, OSX, Windows

Certifications

Base SAS Programming for SAS 9

Graphics editing

Inkscape, Adobe Illustrator

Tools

Emacs (Spacemacs), Vim, Git, Microsoft Visual Studio

Miscellaneous

High Performance Computing

Experience

Oklahoma State University

GRADUATE RESEARCH ASSISTANT - DEPARTMENT OF GEOGRAPHY

Stillwater, Oklahoma

Jan. 2016 - Present

- Diagnosed and fixed issues in Microsoft SQL Server databases
- Improved the functionality, security, and aesthetics of Oklahoma's State Historic Preservation website
- Wrote programs in C#, designed web pages in the Microsoft .NET framework

GRADUATE TEACHING ASSISTANT - DEPARTMENT OF GEOGRAPHY

Aug. 2012 - Dec. 2015

- Taught Intro. to Cultural Geography (lecture) for three semesters
- Taught Intro. to Physical Geography (lecture) for one semester
- Taught Intro. to Physical Geography (laboratory) for five semesters

PROGRAMMER - DEPARTMENT OF PLANT AND SOIL SCIENCES

May 2015 - Aug. 2015

- Led a workshop session on soil moisture mapping using the MATLAB Mapping Toolbox
- Helped develop an automated soil moisture mapping system
- Aided in developing a kriging library for use in MATLAB

Association of Central Oklahoma Governments

Oklahoma City, Oklahoma

TRANSPORTATION INTERN

May 2013 - Aug. 2013

- Conducted spatial analysis using ArcGIS
- Wrote vast formulas in Microsoft Excel to organize data for over 125,000 car crashes
- Updated land use shapefiles in a network geodatabase

Neosho County Community College

Pittsburg, Kansas

CAVE INSTRUCTOR

Aug. 2011 - Dec. 2011

- Taught *Intermediate Algebra* to incoming freshmen
- Was the sole instructor in a class of 22 students

St. Mary's Colgan High School

Pittsburg, Kansas

STUDENT TEACHER

Jan. 2011 - May. 2011

- Taught two sections of *Algebra II* and two sections of *Geometry*
- Substitute taught in *Calculus*, *Algebra III*, and Junior High *Physical Education*

Pittsburg State University

Pittsburg, Kansas

MATHEMATICS TUTOR - MATHEMATICS DEPARTMENT

Jan. 2009 - May 2001

- Tutored students in Calculus I, Calculus II, Calculus III, Discrete Mathematics, Abstract Algebra, Mathematical Modeling, Probability and Statistics, Elementary Statistics, and College Algebra

Honors & Awards

2017	Norris Conference Travel Scholarship	<i>Dept. of Geography, OSU</i>
2017	Jerry Croft Award in Geography Education	<i>Dept. of Geography, OSU</i>
2016	Norris Conference Travel Scholarship	<i>Dept. of Geography, OSU</i>
2016	Featured Researcher (Spring)	<i>High Performance Computing Center, OSU</i>
2015	Research Materials Grant (\$200)	<i>GPSGA, OSU</i>
2015	Most Outstanding First Year PhD Student	<i>Dept. of Geography, OSU</i>
2015	Susan Shaul Medal for Excellence in Teaching	<i>Dept. of Geography, OSU</i>
2015	Top Tier Graduate Fellowship	<i>Grad. College, OSU</i>
2014	SCAUG Regional Scholarship	<i>South Central Arc User Group</i>
2014	Norris Conference Travel Scholarship	<i>Dept. of Geography, OSU</i>
2013	OKSCAUG Scholarship	<i>Oklahoma South Central Arc User Group</i>
2015	Competition Finalist	<i>Three Minute Thesis Competition, OSU</i>