

ANDREW B. SHEARS

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C U R R I C U L U M V I T A E

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PROFESSIONAL CREDENTIALS

EXPERIENCE

- Assistant Professor of Geography** 2013 to present
Mansfield University
- Assistant Professor of Geography** 2011 to 2013
University of Wisconsin-Fox Valley
- Associate Lecturer** 2009 to 2011
Department of Public Service Technology, The University of Akron
Department of Geography and Planning, The University of Akron
- Instructor** 2005 to 2011
Department of Geography, Kent State University
- Laboratory Instructor** 2003 to 2005
Department of Geography, Ball State University
- Instructor** 2003 to 2005
Ivy Tech Community College

EDUCATION

- Doctor of Philosophy, Geography** 2011
Kent State University Kent, Ohio USA
Dissertation: *Katrina & New Orleans: Discursive Safe Spaces and Resulting Environmental Injustice*
Committee: James Tyner (adviser), Mandy Munro-Stasiuk, Scott Sheridan, Robert Schwartz
(Library link to access full-text dissertation: <http://bit.ly/OEBmkF>)
- Master of Science, Geography** 2005
Ball State University Muncie, Indiana USA
Concentration: Geographic Information Processing and Mapping
Committee: Robert Schwartz (adviser), Petra Zimmermann, Kevin Turcotte
(Library link to access thesis abstract: <http://bit.ly/NUDx0V>)
- Bachelor of Science, Geography** 2003
Ball State University Muncie, Indiana USA
Concentration: Comprehensive Geography

INTELLECTUAL PROPERTY WORKS

Shears, Andrew, Jonathan Bagg, Lee Stocks Jr., and Wesley Glowitz. “Method of Producing Topographic Contour Maps through Additive Manufacturing to Cartographic Standards.” Submitted to PASSHE Office of Technology Transfer and Commercialization, 30 July 2015; awaiting further action in pursuit of utility patent.

Bagg, Jonathan, **Andrew Shears** and Lee Stocks Jr. “Method for Projecting Digital Multimedia Data atop 3D Raised Relief Maps produced through Additive Manufacturing.” Submitted to PASSHE Office of Technology Transfer and Commercialization, 30 July 2015; awaiting further action in pursuit of utility patent.

Shears, Andrew, Jonathan Bagg, Don Lafreniere and Lee Stocks Jr. “Method for Projecting Digital Multimedia Data from beneath 3D Raised Relief Maps produced through Additive Manufacturing.” Submitted to PASSHE Office of Technology Transfer and Commercialization, 30 July 2015; awaiting further action in pursuit of utility patent.

Shears, Andrew, Jonathan Bagg and Lee Stocks Jr. “Method for Producing Hypsometric Raised Relief Maps through Additive Manufacturing.” Submitted to PASSHE Office of Technology Transfer and Commercialization, 30 July 2015; awaiting further action in pursuit of utility patent.

Kyle Cuddeback, **Andrew Shears**, Jonathan Bagg and Lee Stocks Jr. “Method for Symbolizing Data through Augmented Reality Technology on 3D Raised Relief Maps produced via Additive Manufacturing.” Submitted to PASSHE Office of Technology Transfer and Commercialization, 30 July 2015; awaiting further action in pursuit of utility patent.

PUBLICATIONS

P A P E R A W A I T I N G I P C L E A R A N C E T O S U B M I T

Shears, Andrew, Jonathan Bagg and Lee Stocks Jr. “3D Printing Topographic Raised Relief Maps: A Cartographically Sound Method.” For submission to *Cartographica*; awaiting clearance of formalized intellectual property ownership.

R E F E R E E D P U B L I C A T I O N S

Stocks, Lee Jr. and **Andrew Shears**. 2015. “Cave Density of the Greenbrier Limestone Group, West Virginia.” *Papers in Applied Geography*.
(Link to access article proof reprint: <http://bit.ly/1BU0w4l>)

In: Johnson, Beth A. 2014. Graphic art and cartography. “A Summary of 19th and Early 20th Century Researchers of Glacial Lake Agassiz, North America: From Noah’s Flood to Upham’s Bathtub and Beyond.” *Earth Sciences History* (forthcoming).

(Link to access article proof reprint: <http://bit.ly/Xv6Xvq>)

Shears, Andrew. 2014. “Local to National and Back Again: Beer, Wisconsin and Scale.” In: *The Geography of Beer: Regions, Environment and Society*, M. Patterson & N. Hoalst-Pullen, eds. *Springer*.

(Publisher link to book listing: <http://bit.ly/1nkvKsp>; link to full-text chapter reprint: <http://bit.ly/1fgdLj>)

Shears, Andrew and Emily Fekete. 2013. “Re-Constructing the Map: NBC’s Geographic Imagination and the Opening Ceremony for the 2012 London Olympics.” *Sociological Research Online*.

(Publisher link to access full-text article: <http://bit.ly/1rl7jka>)

In: Johnson, Beth A. and Philip J. Carpenter. 2012. Graphic art and cartography. “Geophysical Response of Slackwater and Sandy Terrace Deposits near Savanna, Northwestern Illinois.” *Environmental Earth Sciences* 66: 1-10.

(Publisher link to access full-text article: <http://bit.ly/1uM4t92>)

Tyner, James A., Stian Rice and **Andrew Shears**. 2011. “State Capacity, Scalar Politics and the Geographic Study of Civil Wars.” *International Interactions* 37(4): 481-489.

(Publisher link to access full-text article: <http://bit.ly/OJPNSW>)

Shears, Andrew and James A. Tyner. 2009. “(De)Constructing the Geography of America’s Surge in Iraq.” *Antipode* 41(2): 221-225.

(Publisher link to access full-text article: <http://bit.ly/NJMlcD>)

Shears, Andrew and Robert M. Schwartz. 2008. “Tornadoes and Mobile Homes: The Geographic Data of a Stereotype.” *Journal of Emergency Management* 6(1): 11-22.

(Publisher link to access article listing: <http://bit.ly/MZG4YH>; full-text reprint: <http://bit.ly/1r7cJOA>)

N O N - R E F E R E E D P U B L I C A T I O N S

In: Boyer, John. 2016 (forthcoming). *Graphic art and cartography. Plaid Avenger’s World: 8th Edition*. Dubuque, Iowa: Kendall Hunt Publishing.

Boyer, John, **Andrew Shears**, Candace Luebbering and Katie Pritchard. 2016 (forthcoming). *Plaid Avenger’s Introduction to Maps, Presented by Map Dude* (tablet computer application). Blacksburg, Virginia: Plaid Avenger LLC.

In: Boyer, John. 2016 (forthcoming). *Graphic art and cartography. Plaid Avenger’s World: iPad App* (tablet computer application). Blacksburg, Virginia: Plaid Avenger LLC.

In: Barlow, John Matthew. 2016. *Graphic art and cartography. “The House of the Irish”: History and Memory in Griffintown, Montreal, 1900-2010*. Vancouver: The University of British Columbia Press.

In: Guignard, James S. 2015. [Graphic art and cartography](#). *Pedaling the Sacrifice Zone: Teaching, Writing and Living above the Marcellus Shale*. College Station, TX: Texas A&M University Press.

Shears, Andrew. 2013. [“The Popular Feedback Remix: 50 States/50 TV Series.”](#) In *Pop Culture Zone: Writing Critically About Pop Culture, 2nd Edition*. Wadsworth, KY: Cengage Learning.

In: de Blij, H. and Muller, P.O. 2010. *Geography: Realms Regions and Concepts*, 14th Edition. [Clicker Questions \(included in digital supplemental materials provided to instructors\)](#). Hoboken, New Jersey: Wiley Publishing.

Shears, Andrew. 2006. [“The End of the American Empire: An Ironic Implosion.”](#) *Seeds of Change Magazine*. Spring 2006 issue, pp. 7-11. Kent, Ohio.

In: Shears, C.H. 2002. [Graphic art and cartography](#). *Laboratory Exercises in Applied Physical Geography and Earth Science*. Muncie, Indiana: Tichenor Publishing. Used in Physical Geography laboratory sections at Ball State University, 2002-2009.

N O T A B L E B L O G E N T R I E S

Shears, Andrew. 2013. [“Launch M-01: Mapping the First Mansfield Night Football Game since 1869.”](#) *MUEarthLab.org* (online).

Link: <http://mearthlab.org/2013/09/launch-m-01-september-14-2013/>

Views since publication: 20,981 (via Google Analytics, current 11/15/15)

Entry featured by: Mansfield University PR Department, Elmira Star-Gazette, Mansfield Searchlight, several local television stations.

Shears, Andrew. 2012. [“NBC’s Geographic Imagination, as Reflected in the Olympics Opening Ceremony.”](#) *AndrewShears.com* (online).

Link: <http://andrewshears.com/2012/07/30/nbcs-geographic-imagination-as-reflected-in-the-olympics-opening-ceremony/>

Views since publication: 112,090 (via Google Analytics, current 11/15/15)

Entry featured by: The Atlantic Monthly, BleacherReport.com, MapNerd blog.

Shears, Andrew. 2011. [“From Absaroka to Yazoo: The 124 United States that Could’ve Been.”](#) *AndrewShears.com* (online).

Link: <http://andrewshears.com/2011/12/08/the-united-states-that-couldve-been/>

Views since publication: 1,749,701 (via Google Analytics, current 11/15/15)

Entry featured by: MSNBC, Washington Post, Huffington Post, Fox News, Harvard Political Review, The Guardian, Virginia Public Radio, many local television and radio stations in the United States, Canada and United Kingdom.

Shears, Andrew. 2010. [“50 States, 50 Television Shows.”](#) *AndrewShears.com* (online).

Link: <http://andrewshears.com/2010/11/02/50-states-50-television-series/>

Views since publication: 2,410,665 (via Google Analytics, current 11/15/15)

Entry featured by: Huffington Post, mental_floss, Fox News, TVGuide.com, BigThink, E! Online, many local television and radio stations throughout the United States.

E D I T O R I A L C O N T R I B U T I O N S

Co-Editor <i>Geography & the Geoweb</i> – with J. Thatcher and J. Eckert; forthcoming from University of Nebraska Press	2016
Manuscript Reviewer <i>Applied Geography</i>	August 2015 to present
Editorial Board World Geography Bowl	March 2014 to present
Content Editor John Boyer's <i>Plaid Avenger's World</i> – a world regional geography textbook published by Kendall Hunt	May 2011 to present
Laboratory Manual Editor Untitled <i>Physical Geography Laboratory Manual</i> – a lab manual using Google Earth, published by Wiley	January 2012
Content Review <i>Visualizing World Regional Geography</i> – a world regional geography textbook published by Wiley	December 2009

PRESENTATIONS *-Invited #-Planned %-Secondary Authorship

M Y R E S E A R C H

- ***Geophysical and Geospatial Mapping of Tioga County, PA Cemeteries**
With Lee Stocks, Jr. **Tioga County Development Corporation** Wellsboro, Pennsylvania October 2015
- ***Use of 3D Printing Technology to Model Landforms from Geospatial Data**
Mansfield University China Exchange Program Mansfield, Pennsylvania July 2015
- ***Current Faculty/Student Research in the Department of Geosciences**
Marcellus Shale Resource Council Mansfield, Pennsylvania June 2015
- ***Low-Cost Remote Sensing using UAVs at Mansfield University**
With Lee Stocks, Jr. **Mill Cove Environmental Center** Mansfield, Pennsylvania May 2015
- %**Geophysical and Geospatial Mapping of Tioga County, PA Cemeteries**
With Lee Stocks, Jr. and Nathan Harpster, Mansfield University
112th Annual Meeting of the Association of American Geographers Chicago, Illinois April 2015
- ***Use of 3D Printing Technology to Model Landforms from Geospatial Data**
PASSHE Day at the Capitol (meetings with various elected officials) Harrisburg, Pennsylvania April 2015
- ***Use of 3D Printing Technology to Model Landforms from Geospatial Data**
Tioga County Board of Commissioners Wellsboro, Pennsylvania March 2015
- ***Use of 3D Printing Technology to Model Landforms from Geospatial Data**
With Jonathan Bagg and Wesley Glowitz. **MU Council of Trustees Meeting** Mansfield, Pennsylvania March 2015
- *%**Geophysical and Geospatial Mapping of Cemeteries in Tioga County, Pennsylvania**
With Lee Stocks, Jr. **MU Faculty Work-in-Progress Series** Mansfield, Pennsylvania February 2015

***Low-Cost Remote Sensing using UAVs for Data Collection**

With Lee Stocks, Jr. **Pennsylvania Digital Government Summit** Harrisburg, Pennsylvania December 2014

%# Cave Densities of the Greenbrier Limestone, West Virginia

With Lee Stocks, Jr. **Applied Geography Conference** Atlanta, Georgia October 2014

***Avoiding the Trap of Transfer and Commercialization Bad Viral Maps**

AP Human Geography Teacher Professional Development Workshop Cincinnati, Ohio June 2014

Quantum Geographies: Applying Einsteinian Space-Time, Metaphysics and Multiverse Theory to Four-Dimensional Interpretation of Places Memorializing Tragedy

111th Annual Meeting of the Association of American Geographers Tampa, Florida April 2014

% Using Student Capstones to Create a Curriculum on Contemporary Ocean Issues

Presented by Beth Johnson, University of Wisconsin-Fox Valley

Annual Meeting of the Geological Society of America Denver, Colorado October 2013

***DIY Balloon Mapping: Low Cost Remote Sensing for Student Research**

Annual Induction Ceremony, Phi Theta Kappa, UW-Fox Valley Menasha, Wisconsin May 2013

My Geography of Obesity: An Auto-Ethnographic Look at Spaces & Places of Fatness

110th Annual Meeting of the Association of American Geographers Los Angeles, California April 2013

Using Google Earth Modeling to Introduce Students to Geographic Information Science

Annual Meeting of the Wisconsin Geographic Society Oshkosh, Wisconsin November 2012

My Geography of Obesity: Using Auto-Ethnography to Examine Space & Place

Joint Meeting, West Lakes and East Lakes Divisions of the AAG Dekalb, Illinois October 2012

Introducing the First 3D Google Earth Model of UWFox: The Work of GEO 106 Students

University of Wisconsin-Fox Valley, End of Semester Public Presentation Menasha, Wisconsin May 2012

***Changing Demographics in the East Central Region: Historical Data and Future Projections**

Diversity in Planning Conference, EC Regional Planning Commission Neenah, Wisconsin April 2012

Performing Place: Geo-Social Networking and Digital Performance of Personal Geography

108th Annual Meeting of the Association of American Geographers New York, New York February 2012

***Japan's Triple Disaster: An Overview of the 2011 Earthquake, Tsunami and Nuclear Crisis**

University of Wisconsin-Fox Valley Menasha, Wisconsin March 2011

The Social Injustice of Discursive Safe Space: Katrina and New Orleans

Dimensions of Political Ecology: Conference on Nature Society Lexington, Kentucky February 2011

Erasing Place: Silencing Protest by Re-Programming Spaces of May 4 Shootings

Annual Meeting, Great Plains and Rocky Mountain Division of the AAG Lawrence, Kansas October 2010

The Abuser Database: Using Community-Sourced GIS to Curb Animal Abuse

25th Annual Graduate Student Senate Colloquium, Kent State University Kent, Ohio April 2010

Infrastructure as Discourse: "Safety" of New Orleans and Resulting Environmental Injustice

106th Annual Meeting of the Association of American Geographers Washington, DC April 2010

***Examining Climate Change in a Classroom Setting: Science, Illustration and Examples**

Geography Program, Community College of Baltimore County Essex, Maryland May 2009

Erasing Place: Silencing Protest by Re-Programming Spaces of May 4 at Kent State
105th Annual Meeting of the Association of American Geographers Las Vegas, Nevada March 2009

Killing Puppies in “Public” One Pet Store’s Seizure of Capitalist Buffers to Silence Protests
Annual Meeting, East Lakes Division of the AAG St Catherines, Ontario October 2008

***Ethical Pedagogy and Topical Relevance: Teaching Environmental Justice**
Department of Social Science, Winston-Salem State University Winston-Salem, North Carolina June 2008

***Discourse and Hurricane Katrina: The Makings of Environmental Injustice**
Department of Geography, University of South Alabama Mobile, Alabama May 2008

Post-Katrina New Orleans and The Colonial Present
104th Annual Meeting of the Association of American Geographers Boston, Massachusetts April 2008

***Case Studies of Produced Space: Landscapes of May 4, and Putting “Nature” in Katrina**
Seminar in Geography Undergraduate Course, Kent State University Kent, Ohio April 2008

Erasing Place: The May 4, 1970 Shootings and Contestations of Memorialization
23rd Annual Graduate Student Senate Colloquium, Kent State University Kent, Ohio March 2008

Erasing Place: May 4 at Kent State University
Annual Meeting, East Lakes Division of the AAG East Lansing, Michigan October 2007

Indiana and the War on Terror: An Examination of Scaled Discourse
103rd Annual Meeting of the Association of American Geographers San Francisco, California April 2007

***Investigating Hurricane Katrina and New Orleans**
Seminar in Geography Undergraduate Course, Kent State University Kent, Ohio April 2007

Indiana and the War on Terror: An Examination of Grassroots Support
22nd Annual Graduate Student Senate Colloquium, Kent State University Kent, Ohio April 2006

Tornadoes and Mobile Homes in the SE United States: Geographic Data of a Stereotype
102nd Annual Meeting of the Association of American Geographers Chicago, Illinois March 2006

Tornadoes and Mobile Homes in the SE United States: Geographic Data of a Stereotype
Annual Meeting, East Lakes Division of the AAG Bowling Green, Ohio October 2006

Tornadoes and Trailers: Geographic Data of a Stereotype
101st Annual Meeting of the Association of American Geographers Denver, Colorado April 2005

The Geography of Tornadoes and Mobile Homes in the SE United States
Annual Graduate Student Symposium, Ball State University Muncie, Indiana March 2005

S E C O N D A R Y A U T H O R S H I P O N S T U D E N T R E S E A R C H

Mapping Carolina Bays for Morphometric Analysis
Presented by Jesse Olson and Scott Morgan – Mansfield University Geosciences students
Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2015

Mapping Carolina Bays for Morphometric Analysis
Presented by Jesse Olson and Scott Morgan – Mansfield University Geosciences students
Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2015

Abandoned Mines and Wells in Tioga County, PA

Presented by Arminda Nesle – Mansfield University Geosciences student

Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2015

Examining Strategies for Preventing Coastal Erosion

Presented by Pat Homan – Mansfield University Geosciences student

Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2015

Juvenile Crime and High School Sports

Presented by Jacob Peffer – Mansfield University Geosciences students

Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2015

Geospatial and Geophysical Mapping of Cemeteries in Tioga County, PA

Presented by Nathan Harpster and Jesse Olson – Mansfield University Geosciences students

Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2015

Mapping Applications of Unmanned Aerial Vehicles

Presented by Wesley Glowitz and Jonathan Bagg – Mansfield University Geosciences students

Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2015

Bioremediation of Wastewater using Duckweed

Presented by Kyle Cuddeback – Mansfield University Geosciences student

Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2015

Crime Mapping Williamsport, PA

Presented by Joseph Campbell – Mansfield University Geosciences student

Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2015

Evolution of Cartography: Topographic Modeling with a 3D Printer

Presented by Jonathan Bagg – Mansfield University Geosciences student

Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2015

Geophysical and Geospatial Mapping of Tioga County Cemeteries

Presented by Nathan Harpster – Mansfield University Geosciences student

Pennsylvania Environmental Research Conference Lewisburg, Pennsylvania March 2014

Geophysical and Geospatial Mapping of Tioga County Cemeteries

Presented by Nathan Harpster – Mansfield University Geosciences student

COPLAC Northeast Regional Undergraduate Research Conference Keene, New Hampshire November 2014

Use of Consumer UAV Technology for Extremely High Resolution Mapping

Presented by Wesley Glowitz and Jonathan Bagg – Mansfield University Geosciences students

COPLAC Northeast Regional Undergraduate Research Conference Keene, New Hampshire November 2014

Mapping and Morphometric Analyses of “Carolina Bay” Geologic Features

Presented by Jesse Olson and Scott Morgan – Mansfield University Geosciences students

COPLAC Northeast Regional Undergraduate Research Conference Keene, New Hampshire November 2014

Mapping the Mansfield University Campus. From Scratch. In 10 Days.

Presented by Blair Phelps – Mansfield University Geography student

Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2014

Producing a 3D Model of Mansfield University using Trimble SketchUp

Presented by Mitchel Kriesler, Brandon Lepley and Susan Learn – Mansfield University Geography students
Showcase of Scholarship, Mansfield University Mansfield, Pennsylvania April 2014

Farmers' Markets: Seasonal Impacts on Food Deserts in Northeast Wisconsin

Presented by Shawn Kargus and Thomas Petersen – UW-Fox Valley Geography students
2013 Posters in the Rotunda, University of Wisconsin System Madison, Wisconsin April 2013

Presenting Lessons on Ocean Issues: Carbon Cycle, Ocean Acidification, Fisheries

Presented by Shawn Kargus, Jonathan Steffen, Michele Van Cuyk and Eric Balza – UW-Fox Valley Geography students
2013 Posters in the Rotunda, University of Wisconsin System Madison, Wisconsin April 2013

Medical Marijuana Migration from Wisconsin to Michigan: Why Reform is Needed

Presented by Jonathan Steffen – UW-Fox Valley Geography student
2013 Posters in the Rotunda, University of Wisconsin System Madison, Wisconsin April 2013

Presenting Lessons on Ocean Issues: Carbon Cycle, Ocean Acidification, Fisheries

Presented by Shawn Kargus, Jonathan Steffen, Michele Van Cuyk and Eric Balza – UW-Fox Valley Geography students
110th Annual Meeting of the Association of American Geographers Los Angeles, California April 2013

Farmers' Markets: Seasonal Impacts on Food Deserts in Northeast Wisconsin

Presented by Shawn Kargus and Thomas Petersen – UW-Fox Valley Geography students
110th Annual Meeting of the Association of American Geographers Los Angeles, California April 2013

Exploring Aquaponics as a Potential Solution to Food Deserts

Presented by Shawn Kargus – UW-Fox Valley Geography student
Joint Meeting, West Lakes and East Lakes Divisions of the AAG Dekalb, Illinois October 2012

ONGOING SCHOLARSHIP

MY PROJECTS CURRENTLY UNDERWAY

High-Resolution Mapping of Gravesites in Tioga County Cemeteries

Research project to culminate in peer-reviewed publication, intended for *Geohumanities*

Plaid Avenger's World – Graphic Arts and Cartography

Alternative World Regional Geography textbook authored by John Boyer of Virginia Tech

Killing Puppies in 'Public': Capitalist-Enforced Buffers to Silence Protest Against Brutality

Research project to culminate in peer-reviewed publication

My Geography of Obesity: Theorizing Space and Place through Auto-Ethnography

Theoretical research project to culminate in peer-reviewed publication

COLLABORATION CURRENTLY UNDERWAY

Mapping Abandoned and Orphaned Gas and Oil Wells in Tioga County, Pennsylvania

Collaboration with Lee Stocks and six undergraduate students, to culminate in peer-reviewed publication

Use of Various UAV Platforms for Low-Cost, Extremely High Resolution Mapping Imagery

Collaboration with three undergraduate students, to culminate in peer-reviewed publication

Mapping Carolina Bays for Spatial and Morphometric Analysis

Collaboration with Lee Stocks and four undergraduate students, to culminate in peer-reviewed publication

HONORS, AWARDS, GRANTS, SCHOLARSHIPS & CERTIFICATIONS

PROFESSIONAL CERTIFICATION

Geographic Information Science Professional (GISP)

Valid June 2015 – June 2020

GIS Certification Institute

TEACHING-RELATED AWARDS & GRANTS

Student/Faculty Research Grant

\$1179

October 2014

Institute of Science and the Environment, Mansfield University

Supported purchase of an imaging UAV helicopter for student research in geography and geology

Act 13 Educational Equipment Grant

\$8912

September 2014

Office of the County Commissioner, Tioga County, Pennsylvania

Supported purchase of a Makerbot Z18 3D printer for student mapping research applications

Student Activities Grant

\$21677

October 2013

Committee on Finance, Student Government Association, Mansfield University

Supported purchase of imaging UAV helicopter for student research in geography and geology

Finalist, Faculty of the Year		April 2013
Student Government Association, University of Wisconsin-Fox Valley		
Student Scholars Grant	\$3791	April 2013
Professional Development Committee, University of Wisconsin-Fox Valley		
Supported student attendance and presentation at 2013 AAG Annual Meeting for five students		
Campus Improvement Grant	\$500	November 2012
UW-Fox Valley Foundation, University of Wisconsin-Fox Valley		
Awarded in support of student research blending earth science with art using microphotography		
Student Scholars Grant	\$475	October 2012
Professional Development Committee, University of Wisconsin-Fox Valley		
Supported student attendance and presentation at Joint Meeting of West Lakes and East Lakes of AAG		
Student Scholars Grant	\$1665	June 2012
Professional Development Committee, University of Wisconsin-Fox Valley		
Supported student attendance at aquaponics workshop for continued research		
Finalist, Faculty of the Year		April 2012
Student Government Association, University of Wisconsin-Fox Valley		
Curriculum Reform Grant	\$1000	January 2012
Women in Science Program, University of Wisconsin System		
Awarded to redesign introductory physical geography curriculum to student-centered pedagogy		
Campus Improvement Grant	\$1225	November 2011
UW-Fox Valley Foundation, University of Wisconsin-Fox Valley		
Awarded to purchase new campus weather station for student projects		
Finalist, Ohio Faculty Innovator		January 2011
Division of Affordability & Efficiency, Ohio Board of Regents		
Recognition for Support of Student Retention		December 2007
University College, Kent State University		
Outstanding Teaching Assistant		May 2005
Department of Geography, Ball State University		

OTHER AWARDS & GRANTS

Faculty Professional Development Grant	\$1500	December 2015
Faculty Professional Development Committee, Mansfield University		
Awarded to support attendance at 2016 AAG Annual Meeting in San Francisco; rescinded due to budget cuts		
Presidential Coin for Excellence		March 2015
Office of the President, Mansfield University		
Recognized achievements in developing 3D map printing methodology; first active MU faculty to receive award		

Faculty Conference Attendance Grant	\$418	September 2014
Marcellus Institute, Mansfield University		
Supported travel to Canonsburg, PA to attend 2014 EnerGIS conference		
Faculty Professional Development Grant	\$2000	April 2014
Faculty Professional Development Committee, Mansfield University		
Supported travel to Tampa, FL for participation in 2014 AAG Annual Meeting		
Professional Development Grant	\$510	April 2013
Department of Geography, University of Wisconsin Colleges		
Supported travel to Los Angeles, CA for participation in 2013 AAG Annual Meeting		
Professional Development Grant	\$1170	April 2013
Professional Development Committee, University of Wisconsin-Fox Valley		
Supported travel to Los Angeles, CA for participation in 2013 AAG Annual Meeting		
Professional Development Grant	\$1574	February 2012
Professional Development Committee, University of Wisconsin-Fox Valley		
Supported travel to New York, NY for participation in 2012 AAG Annual Meeting		
Professional Development Grant	\$573	February 2012
Department of Geography and Geology, University of Wisconsin Colleges		
Supported travel to New York, NY for participation in 2012 AAG Annual Meeting		
Student Travel Grants	\$4650 total	2006 to 2011
Department of Geography and Graduate Student Senate, Kent State University		
Supported travel to AAG Annual Meetings, 2006 to 2011		
Third Place, Individual Score		March 2009
World Geography Bowl, Association of American Geographers		
World Geography Bowl Travel Grant	\$700 total	2007 to 2009
East Lakes Division of the Association of American Geographers		
Supported travel to AAG Annual Meetings, 2007 to 2009 as member of ELDAAG team		
Most Valuable Player, Individual Score		April 2008
World Geography Bowl, Association of American Geographers		
Beck Student Research Award	\$100	April 2008
Department of Geography, Kent State University		
Supplemental Research Grant	\$400	March 2008
Graduate Student Senate, Kent State University		
Best Graduate Student Paper	\$75	October 2007
Annual Meeting, East Lakes Division of the Association of American Geographers		
Jeanne X. Kasperson Award	\$135	October 2005
Hazards Specialty Group, Association of American Geographers		

Outstanding Masters Graduate Department of Geography, Ball State University		May 2005
Highest GPA of MS Graduates in GIS Option Department of Geography, Ball State University		May 2005
Outstanding Scholarly Achievement Graduate School, Ball State University		May 2005
Certificate of Geographic Enrichment Department of Geography, Ball State University		May 2004
Hurlbut-Leak Memorial Scholarship Department of Geography, Ball State University	\$300	May 2002
Nancy Venkemulder Scholarship School of Music, Ball State University	\$1200	2001 to 2002

COURSES INSTRUCTED

Titles listed below have been standardized to generic versions to eliminate variation between equivalent courses across institutions. Syllabi and student evaluations for most courses listed below – and all courses from 2009 to present – are available upon request.

Course	Number of Sections Instructed for...						Total Sects	Last Instructed
	MU	UW -FV	U of Akron	Kent State	Ball State	Ivy Tech		
Introduction to Geography	-	-	4	5	-	-	9	Spr 2011
Introduction to Physical Geography – Lecture	-	1	-	-	-	-	1	Spr 2013
Introduction to Physical Geography – Labs	-	2	-	-	12	-	14	Spr 2013
Introductory Human Geography	4	2	6	-	-	-	12	Sum 2015
Introduction to Regional Planning	1	-	-	-	-	-	1	Fall 2013
Introduction to GIS	5	2	-	-	-	-	7	Fall 2015
Computer Aided Design (CAD)	1	-	-	-	-	2	3	Spr 2014
Physical Geography: Weather & Climate – Lecture	-	1	-	-	-	-	1	Fall 2011
Physical Geography: Weather & Climate – Labs	-	2	-	-	-	-	2	Fall 2011
Physical Geography: Landforms – Lecture	-	1	-	-	-	-	1	Spr 2012
Physical Geography: Landforms – Labs	-	2	-	-	-	-	2	Spr 2012
World Regional Geography	5	1	-	7	-	1	14	Fall 2015
Geography of US & Canada	-	1	-	19	-	-	20	Spr 2013
Advanced GIS	2* [#]	-	-	-	-	-	1	Spr 2016*
New Techniques in Mapping	1* [#]	-	-	-	-	-	1*	Spr 2016*
Geoweb & Internet Mapping	2* [#]	-	-	-	-	-	2	Spr 2016*
Geography of Hazards / Natural Disasters [#]	-	3	1	1	-	-	5	Fall 2012
Research Methods	2*	-	1 [#]	-	-	-	3*	Spr 2016*
Special Topic: American Geography & Road Trip Lit	-	-	-	1 [#]	-	-	1	Fall 2007
Special Topic: Our Global Oceans	-	1 [#]	-	-	-	-	1	Fall 2012
Introduction to Graphic Design	-	-	-	-	-	6	6	Spr 2005
HTML and Web Design	-	-	-	-	-	4	4	Spr 2005

[#]-New Course Developed for Program

*-Represents Scheduled Responsibilities for Spring 2016

RELEVANT TECHNICAL SKILLS

<i>Technology</i>	<i>Uses</i>	<i>Experience</i>	<i>Proficiency</i>
Adobe Acrobat XI Pro CC	Management of digital print documents	10 years	Expert
Adobe After Effects CC	Visual effects and motion graphics	5 years	Intermediate
Adobe Dreamweaver CC	Website design, coding and publication	14 years	Expert
Adobe Fireworks CC	Graphics editing for web publication	10 years	Expert
Adobe Flash Pro CC	Interactive web and game design	8 years	Intermediate
Adobe InDesign CC	Page layout for print publication	15 years	Expert
Adobe Illustrator CC	Vector graphics design and cartography	15 years	Expert
Adobe Lightroom CC	Digital photography resource management	3 years	Expert
Adobe Muse CC	WYSIWYG website design	2 years	Advanced
Adobe Photoshop CC	Raster graphics editing	18 years	Expert
Adobe Premiere CC	Video editing and production	7 years	Intermediate
AutoCAD	Computer-aided design software	11 years	Intermediate
ArcGIS 10.2	GIS, mapping, and spatial analysis software	15 years	Expert
ArcGIS.com	Online GIS interactive mapping display	3 years	Expert
Blackboard	Instructional web content management	10 years	Expert
Cinestar 8	Professional UAV used for remote sensing	2 years	Beginner
CSS	Web markup and styling code	12 years	Expert
Desire2Learn	Instructional web content management	6 years	Expert
DJI Phantom 2 Vision+	Consumer UAV used for remote sensing	1 year	Intermediate
Drupal	Web content management system	4 years	Intermediate
Final Cut Pro X	Video editing and production software	8 years	Advanced
Google Earth Pro	Limited mapping and GIS application	6 years	Expert
HTML5	Web markup coding language	18 years	Expert
Java	Scripting language for Web and other use	16 years	Advanced
Leaflet	Open-source web display app for mapping	1 year	Beginner
MakerBot Z18	3D printer, used for mapping applications	1 year	Advanced
MapBox	CSS-based online web mapping software	2 years	Advanced
Microsoft Office	Professional productivity suite	16 years	Expert
OpenLayers	Open-source web display app for mapping	6 months	Beginner
PHP	Dynamic web markup coding language	4 years	Intermediate
Python	Application coding language used for GIS	1 year	Beginner
QGIS	Open-source GIS and mapping software	6 years	Expert
R	Statistical programming language	1 year	Beginner
SPSS	Statistical analysis software	10 years	Intermediate
SQL	Database management coding language	2 years	Beginner
Trimble SketchUp	3D modeling and design software	4 years	Expert
WordPress	Web content management system	6 years	Expert

Expert = Highly knowledgeable in use and application of technology to relevant purposes

Advanced = Knowledgeable in most common applications of technology, but still consult manuals for more obscure uses

Intermediate = Strong familiarity with how technology works, still consult manuals and guides for some applications

Beginner = Familiarity with technology, but must consult manuals and guides for most applications and operations

SERVICE

DEPARTMENTAL AND UNIVERSITY SERVICE

Faculty Adviser Geoscience Student Club, Mansfield University	January 2016 to Present
Committee Member & Senate Representative University Information Technology Committee, Mansfield University	May 2015 to Present
Committee Member Sustainability Committee, Mansfield University	July 2014 to Present
Workshop Leader Environmental Day, Mill Cove Environmental Center	October 2015
Workshop Presenter Marcellus Camp, Marcellus Institute, Mansfield University	July 2015
Faculty Representative Mansfield University, PASSHE Day at the Capitol, Harrisburg, Pennsylvania	April 2015
Secretary for Department Meetings Department of Geography and Geology, Mansfield University	August 2014 to July 2015
Workshop Presenter Marcellus Camp, Marcellus Institute, Mansfield University	July 2014
Workshop Presenter "Take Your Child to Work Day," Mansfield University	April 2014
Advisory Board Member Institute for Science and the Environment, Mansfield University	August 2013 to Present
GIS Certificate Task Force Department of Geography and Geology, University of Wisconsin Colleges	September 2012 to May 2013
Faculty Adviser Aquaponics Club, University of Wisconsin-Fox Valley	September 2012 to May 2013
Committee Member Campus Staff Prioritization Committee, University of Wisconsin-Fox Valley	May 2012 to May 2013
Social Sciences Division Representative Bachelor of Applied Arts and Sciences Curriculum Committee, University of Wisconsin Colleges	November 2011 to May 2013
Faculty Co-Adviser Geo-Adventurers Club, University of Wisconsin-Fox Valley	August 2011 to May 2013

Faculty Adviser

Animal and Environmental Awareness (student group), Kent State University

January 2010 to July 2011

Teaching Assistant

Geography of Lake Erie Field Course, Kent State University

May 2010

Graduate Student Representative

Curriculum Committee, College of Arts & Sciences, Kent State University

August 2009 to August 2010

Certified 15-passenger Van Driver

Department of Geography field trips, Kent State University

October 2007 to July 2011

Developer and Instructor, 'Flash-Topic' Course

Department of Geography field trips, Kent State University

Fall 2007

Graduate Representative to Faculty Meetings

Department of Geography, Kent State University

May 2007 to May 2008

President

Geography Graduate Student Association, Department of Geography, Kent State University

May 2007 to May 2008

Secretary

Gamma Theta Upsilon, Ball State University

August 2003 to May 2004

S E R V I C E T O G E O G R A P H Y

Vice President

Pennsylvania State System of Higher Education GIS Consortium

September 2014 to present

Executive Director

World Geography Bowl, Association of American Geographers

July 2011 to July 2014

Organizer and Campus Liaison

Fox Valley GIS User Group & UW-Fox Valley GIS Day Event

November 2011 to May 2013

AP Human Geography Exam Scorer

Educational Testing Services, Inc.

Annually, 2010 to 2014; 2016

Volunteer

Wisconsin State Geographic Bee, Wisconsin Geographic Alliance

April 2012

Organizer & Captain

World Geography Bowl, East Lakes Division of the AAG

2008 to 2009

Judge

Earth Science Division, Regional Science Fair, East Central Indiana

2004 to 2005

Judge, Timekeeper & Scorekeeper

State Geography Bee, Geography Educators' Network of Indiana

2001 to 2004

B R O A D E R C O M M U N I T Y S E R V I C E

- Foster Home** September 2013 to present
Animal Care Sanctuary Wellsboro, Pennsylvania
- Volunteer Animal Photography Wrangler** September 2011 to May 2013
OARS and Neenah Animal Shelter through Amy Shears Photography Neenah, Wisconsin
- Volunteer Animal Photography Wrangler** December 2009 to July 2011
Portage County Dog Warden Shelter through Photography by Aame Ravenna, Ohio
- Volunteer, Treasure, Foster Home, Webmaster** January 2008 to July 2011
Parrot Hope Rescue Mantua, Ohio
- Co-Founder, Volunteer, Foster Home, Webmaster** October 2007 to February 2011
Nikita's Wish animal rescue Kent, Ohio
- Volunteer & Foster Home** October 2006 to October 2007
Rose's Rescue animal rescue Rootstown, Ohio
- Volunteer, Webmaster & Foster Home** August 2005 to December 2006
Pet Guards Clinic and Shelter Cuyahoga Falls, Ohio

MEMBERSHIPS

- Association of American Geographers** 2004 to present
National Professional Organization for Academic Geographers Washington, DC
- National Council for Geographic Education** 2011 to present
National Professional Organization for Geographic Educators Washington, DC
- PASSHE GIS Consortium** 2013 to present
Statewide Organization of Public Higher Education GIS Users Shippensburg, Pennsylvania
- Wisconsin Geographic Society** 2011 to 2013
Statewide Organization of Academic Geographers Oshkosh, Wisconsin
- Fox Valley GIS Users Group** 2011 to 2013
Local Network of GIS Professionals Appleton-Menasha-Neenah, Wisconsin
- KSU Geography Graduate Student Association** 2005 to 2011
Internal Organization of Geography Graduate Students at Kent State University Kent, Ohio
- Gamma Theta Upsilon, Iota Omega Chapter** Inducted 2002
National Geography Honorary, Chapter Based at Ball State University Muncie, Indiana

PROFESSIONAL REFERENCES

- Dr. James A. Tyner** jtyner@kent.edu 330.672.7863
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Assistant Professor of Geology, University of Wisconsin-Fox Valley
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Associate Professor of Emergency Management, The University of Akron
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Senior Instructor of Geography, Virginia Polytechnic Institute and State University