

CURRICULUM VITAE
TIMOTHY J DOLNEY
May 2013

GEOGRAPHY AND GISCIENCE
PENN STATE ALTOONA
ALTOONA, PA 16601

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EDUCATION

- 2007 **Doctor of Philosophy**, Geography
Kent State University, Kent, OH
Dissertation Title: *VERTUS: Vehicle Emissions Related to Urban Sprawl*
Faculty Advisor: Dr. Jay Lee
GPA: 4.00/4.00
- 2003 **Master of Arts**, Geography
Kent State University, Kent, OH
Thesis Title: *The Relationship between extreme heat and ambulance response calls for the city of Toronto, Ontario, Canada*
Faculty Advisor: Dr. Scott C Sheridan
GPA: 3.87/4.00
- 2001 **Bachelor of Arts**, Geography
University of Pittsburgh at Johnstown, Johnstown, PA
(Cum Laude) GPA: 3.45/4.00

PROFESSIONAL POSITIONS

- 2013 – Present **ASSOCIATE PROFESSOR**
Geography and GIScience, Penn State Altoona, Altoona, PA
- 2013 – Present **CAMPUS COLLEGE RESOURCE AND REPRESENTATIVE (C2R2)**
Earth and Mineral Sciences, Penn State Altoona
- 2007 – 2013 **ASSISTANT PROFESSOR**
Geography and GIScience, Penn State Altoona
- 2008 – Present **DISCIPLINE COORDINATION – EARTH AND MINERAL SCIENCES**
Division of Mathematics and Natural Sciences, Penn State Altoona

2009 – Present	OCCUPATIONAL ADVISORY COMMITTEE FOR CAREER AND TECHNICAL EDUCATION (CTE) Tyrone Area School District, High School
2008 – Present	BOARD OF DIRECTORS; DIRECTOR OF STUDENT AWARDS Pennsylvania Geographical Society (PGS) – Board of Directors
2007	ORIENTING NEW TEACHING ASSISTANTS PROGRAM (ONTAP) Developed and directed 2007 mid-year graduate assistant orientation program. Division of Research and Graduate Studies (RAGS) – Kent State University (KSU), Kent, Ohio
2006	ONTAP LEADER Division of Research and Graduate Studies (RAGS), Kent State University
2003 – 2007	TEACHING ASSISTANT Department of Geography, Kent State University
2002 – 2003	PRESIDENT Geography Graduate Student Association (GSA) Department of Geography, Kent State University
2001 – 2003	RESEARCH ASSISTANT Department of Geography, Kent State University Advisor: Dr. Scott C Sheridan
2001 – 2005	SCIENTIFIC-TECHNICAL ENGINEERING INTERN Pennsylvania Department of Environmental Protection (DEP) – Bureau of Abandoned Mine Reclamation (BAMR), Ebensburg, PA

GRANTS AND AWARDS

2011	Community-Based Project Award, \$2,500.00 Penn State University - Altoona
2010	Undergrad Research Award, \$500.00 Penn State University – Altoona
2009	Undergrad Research Award, \$500.00 Penn State University – Altoona
2009	Translational Research In Energy Support Program (TRESP), \$64,985.00 Ben Franklin Technology Partnership (BFTP) of Central and Northern Pennsylvania (CNP)

2008	Research Development Grant, \$1,200.00 Penn State University
2007	James R Beck Award for Research Department of Geography, Kent State University
2007	Best Presentation at the 22nd Graduate Student Senate Colloquium Kent State University
2005	James R Beck Award for Research Department of Geography, Kent State University
2004	Travel Grant \$250.00 (U.S) 16th Conference on Biometeorology and Aerobiology, Vancouver, BC, Canada
2004	Outstanding Geography Thesis Award Department of Geography, Kent State University
2001	College Scholar in Geography Department of Geography, University of Pittsburgh at Johnstown
2001	Geographic Information System (GIS) Award Department of Geography, University of Pittsburgh at Johnstown
2000	Member of Gamma Theta Upsilon (GTU) International Geographical Honors Society
1997 – 1998	National Dean's List Honoring America's Outstanding College Students
1994 – 1995	Who's Who Among American High School Students

PUBLICATIONS

Dolney, Timothy. (In Progress). "A GIS Vehicle Routing Model for Sustainable Trash Collection in the City of Altoona, Pennsylvania."

Dolney, T. (In Press). "From Mylar to Map Documents: GIS AML Inventory for Abandoned Coal Mine Investigations." International Journal of Data Mining, Modelling, and Management.

- Dolney, Timothy** and Richard E. Flarend (2013). "A GIS-assisted approach to identify potential locations for the Seasonal Storage of Solar Heating: Promises and Pitfalls." Transactions in GIS. 17(2): 247-266.
- Dolney, T.** "Pennsylvania Public Schools." [Geospatial Data]. (2012). Pennsylvania Spatial Data Access Center (PASDA) and Penn State Data Commons. *Self-Created Data*. http://www.pasda.psu.edu/uci/MetadataDisplay.aspx?entry=PASDA&file=PAPublicSchools_point2009.xml&dataset=33
- Dolney, T.** (2011). "A GIS Methodology for Assessing the Safety Hazards of Abandoned Mine Lands (AMLs): Application to the state of Pennsylvania." International Journal of Applied Geospatial Research. 2(3): 50-71.
- Dolney, T.** (2009). "Using Simulation to Estimate Vehicle Emissions in Response to Urban Sprawl within Geauga County, Ohio." Ohio Journal of Science. 190(3): 52-66.
- Dolney, T.** "Estimating Vehicle Emissions in Response to Urban Sprawl." Geospatial Solutions, October 2008, www.geospatial-online.com
- Dolney, T.** (2007). "Land Use Patterns and their Proximity to Abandoned Coal Mines in the State of Pennsylvania." The Pennsylvania Geographer. 45(1): 80-98
- Dolney, T and SC Sheridan.** (2006). "The Relationship between Extreme Heat and Ambulance Response Calls for the city of Toronto, Ontario, Canada." Environmental Research. 101(1): 94-103.
- Dolney, T.** (2005). "Towards an Operational Model for Home-Work Journey Estimation as Induced by Urban Sprawl." *Papers of the 28th Applied Geography Conferences*. Washington, D.C.
- Sheridan, SC and T Dolney.** (2003). "Heat, mortality, and level of urbanization: measuring vulnerability across Ohio, USA." Climate Research. 24: 255-265.

CONSULTING

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| 2008 | Mapping Consultant
Patton Borough, Patton, PA |
| 2007 | Mapping Consultant – Rhetoric Departments in the United States
Rhetoric and Composition Department, Kent State University |
| 2006 | Mapping Consultant – Coastal Communities
Adjusta-Post Lighting Co., Norton Ohio |

2005 **Mapping Consultant** – Ohio School Districts
 Department of Geography, Kent State University

COURSES

EARTH 101	Natural Disasters
ENVST 100	Visions of Nature
ENVST 200	Research Methods in Environmental Studies
ENVST 395	Internships in Environmental Studies
GEOG 010	Physical Geography: An Introduction
GEOG 160	Mapping (Introduction to GIS)
GEOG 363	Geographic Information Systems (Advanced GIS)
GEOG 430	Human Use of Environment

PAPERS PRESENTED AT TECHNICAL AND PROFESSIONAL MEETINGS

- 12/2012 **Every Map has a Story**
 Spotlight on Teaching and Research (STAR) Series. Penn State Altoona.
- 10/2012 **GIS Vehicle Routing for Sustainable Waste Collection in the City of Altoona, Pennsylvania.**
 The 35th Applied Geography Conference. Minneapolis, Minnesota.
- 11/2011 **Creation, Error, and Accuracy of Geospatial Data**
 Annual of Meeting of The Pennsylvania Geographical Society, Indiana, Pennsylvania.
- 10/2011 **National Standards for Spatial Data Accuracy (NSSDA) to Assess the Horizontal Positional Accuracy of Abandoned Mine Lands (AMLs)**
 The 34th Applied Geography Conference, Redlands, California
- 4/2011 **Using LiDAR data to identify abandoned coal mines for the construction of a seasonal storage pit.**
 Annual Meeting of the Pennsylvania Academy of Science. Altoona, Pennsylvania
- 11/2010 **Mapping Abandoned Coal Mines Using LIDAR data for the Construction of a Solar Thermal Energy Pit**
 Joint Meeting of The Pennsylvania Geographical Society and The Mid-Atlantic Division of the Association of American Geographers, York, Pennsylvania.

- 10/2010 **Using Neighborhood Statistics and Hillshading within GIS to identify potential locations for the Seasonal Storage of Solar Heating (S3H).**
33rd Applied Geography Conference, Fort-Worth, Texas.
- 4/2010 **GIS for Site Identification and Assessment of the Seasonal Storage of Solar Heating (S3H)**
106th Annual Meeting of the Association of American Geographers, Washington, D.C.
- 10/2009 **Reprioritizing the severity of Abandoned Mine Lands (AMLs) in the state of Pennsylvania.**
The 2009 Annual Meeting of the Pennsylvania Geographic Society (PGS), West Chester, Pennsylvania.
- 3/2009 **A GIS-Based approach for assessing the severity of Abandoned Mine Lands (AMLs)**
105th Annual Meeting of the Association of American Geographers, Las Vegas, Nevada
- 11/2008 **GIS for Environmental Impact Assessment – A Case Study of Urban Sprawl and Mapping the AML Inventory – *Invited Presenter***
GIS Day 2008 held at the University of Pittsburgh at Johnstown, Johnstown, Pennsylvania
- 10/2008 **Identifying populations at risk to the presence of Abandoned Mine Lands (AMLs): a GIS-based approach**
The Annual Pennsylvania Geographic Society Meeting, Clarion, Pennsylvania
- 10/2008 **GIS for Environmental Impact Assessment: A Case Study of Urban Sprawl and Abandoned Coal Mines**
Colloquium presented at Penn State University, Department of Geography Coffee Hour Series, University Park, Pennsylvania
- 10/2008 **Geographic Information Systems (GIS) – Come Map Your Research**
Colloquium presented at Penn State Altoona. Sponsored by the Division of Mathematics & Natural Sciences, Altoona, Pennsylvania
- 04/2008 **Design and Implementation of the VERTUS Model as a Planning Tool to Assess Vehicle Emissions in response to Residential Developments**
104th Annual Meeting of the Association of American Geographers, Boston, Massachusetts

- 11/2007 **The VERTUS Model – Vehicle Emissions Related to Urban Sprawl**
The Annual Pennsylvania Geographic Society Meeting, Johnstown,
Pennsylvania
- 03/2007 **Introduction to GIS – *Invited Participant***
9th Crime Mapping Research Conference, Pittsburgh, Pennsylvania
- 03/2007 **Vehicle Emissions Related to Urban Sprawl – The Development of the
VERTUS model for Environmental Impact Assessment**
22nd Annual Graduate Student Senate (GSS) Colloquium, Kent, Ohio
- 11/2006 **Effective Teaching Strategies and Skills – *Panelist Member***
13th Annual Celebrating Teaching Conference, Kent, Ohio
- 11/2006 **Land Use Patterns and their Proximity to Abandoned Coal Mines in the
State of Pennsylvania**
East Lakes Division of the Association of American Geographers, Toledo, Ohio
- 03/2006 **Home-work Journey Estimation Induced by Urban Sprawl**
102nd Annual Meeting of the Association of American Geographers, Chicago,
Illinois
- 11/2005 **Towards an Operational Model for Home-Work Journey Estimation as
Induced by Urban Sprawl**
28th Annual Applied Geography Conference, Washington, DC
- 11/2005 **Model Layout for Estimating Vehicular Air Pollution in Response to Urban
Sprawl and the Home-Work Journey**
East Lakes Division of the Association of American Geographers, Bowling Green,
Ohio
- 11/2005 **Developing a Model to Forecast Air Pollution in Relation to Urban Sprawl
and the Home-Work Journey**
6th Annual Central Appalachian Geo-Spatial Conference, California,
Pennsylvania
- 11/2004 **The relationship between extreme heat and ambulance response calls for
the city of Toronto, Ontario, Canada**
16th Conference on Biometeorology and Aerobiology, Vancouver, British
Columbia, Canada

- 03/2004 **The relationship between ambulance response calls and extreme heat for the city of Toronto, Ontario, Canada**
100th Annual Meeting of the Association of American Geographers, Philadelphia, Pennsylvania
- 10/2003 **The relationship between extreme heat and ambulance response calls for the city of Toronto, Ontario, Canada**
East & West Lakes Division of the Association of American Geographers, Kalamazoo, Michigan
- 10/2002 **The effects of abandoned coal mines on land use patterns in the state of Pennsylvania.**
East Lakes Division of the Association of American Geographers, Mt Pleasant, Michigan
- 03/2002 **Assessing Environmental Risk: Abandoned Coal Mines and Extreme Heat**
Colloquium, Kent State University, Department of Geography, Kent, Ohio

INVITED LECTURES

- 2009 **Overview of PSU – Altoona Environmental Studies Program**
Penn State University – Altoona College
- 2005, 2006 **Preparing for Graduate School**
University of Pittsburgh at Johnstown, Department of Geography, Johnstown, Pennsylvania

CONFERENCES/WORKSHOPS ATTENDED

- 9/2011 **Workshop – National Science Foundation (NSF) Day**
Indiana University of Pennsylvania
- 9/2011 **Workshop – Extend the Reach of Your GIS**
Penn State University
- 4/2010 **Workshop – Effective Teaching**
Penn State University
- 2/2009 **Workshop – Identifying Sources of External Funding for Research and Determining Interest in Your Project**
Penn State University – Altoona

- 5/2008 **Workshop – Summer 2008 Grant Writing Workshop**
Penn State University – Altoona
- 11/2007 **Conference – Living the Vision of a Student-Centered University**
Penn State University

PROFESSIONAL ORGANIZATIONS

Association of American Geographers (AAG)
 Pennsylvania Geographical Society (PGS)
 Gamma Theta Upsilon (GTU), International Geographical Honors Society

REVIEWS

Manuscript Reviewer

Annals of the Association of American Geographers, 2010
 Annals of the Applied Geography Conference, 2010
 Journal of Applied Geography, 2009
 Environmental Research, 2007
 International Journal of Biometeorology, 2005

Book Reviewer

John Wiley & Son's *Natural Disasters and Catastrophes*, First Edition
 Four Chapters

Abbott, Patrick L. *Natural Disasters*, Fourth Edition
 Chapters 1-22

Getis *et al.* *Introduction to Geography*, Eleventh Edition
 Chapters 2-4, and 11.

ESRI VIRTUAL CAMPUS – GIS EDUCATION AND TRAINING ON THE WEB

Learning ArcGIS I (for ArcView 8, ArcEditor 8, and ArcInfo 8)
 Learning ArcGIS II: Presenting Information (for ArcView 8, ArcEditor 8, and ArcInfo 8)
 Introduction to ArcInfo Using ArcMap, ArcCatalog, and ArcToolbox

Customizing ArcGIS

Introduction to Visual Basic 6

Understanding Branching and Looping in VBA

Working with Forms in VBA

Working with Variables and Functions in VBA