

## **CHRISTOPHER A. BADUREK, PhD, GISP**

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### **EDUCATION**

#### **University at Buffalo, State University of New York, Amherst, NY**

PhD, Geography (Geographic Information Science), 2005.

Graduate Certificates: Geographic Information Science, 2005, Educational Technology, 2001.

#### **Cornell University, Ithaca, NY**

BA, Biology, 1994

### **PROFESSIONAL EXPERIENCE**

#### **State University of New York at Cortland, NY**

*Director of Research*, Institute for Geospatial and Drone Technology, 2018-.

*Co-Director*, Cortland Regional GIS Lab, 2017-.

*Advisory Member*, Institute for Civic Engagement, 2018-.

*Faculty Member*, Graduate Faculty, 2019-.

*Faculty Member*, Entrepreneurship Minor, 2017-.

*Associate Professor*, Geography Department, 2019-.

*Assistant Professor*, Geography Department, 2017-2019.

#### **St. John Fisher College, Rochester, NY**

*Adjunct Professor*, Graduate Data Science Program and Media & Communication Department, 2019-

*Adjunct Professor*, Mathematics, Statistics, & Computer Science Department, 2021-

#### **SkyOp, Tech Garden, Syracuse, NY**

*Instructor & Consultant*, UAS (Drone) Professional Education, 2019-.

#### **Drexel University, Philadelphia, PA**

*Data Specialist and Interim Manager*, Research Data Services, 2015-2017.

#### **Rowan University, Glassboro, NJ**

*Adjunct Professor*, Geography, Planning, and Sustainability Department, 2014-2017.

#### **The College of New Jersey, Ewing, NJ**

*Project Manager*, Resiliency Network, Sustainability Institute, 2014.

#### **Appalachian State University, Boone, NC**

*Advisory Member*, Research Institute for Environment, Energy, and Economics, 2013.

*Director*, College of Arts and Sciences Computation and Visualization Lab, 2010-2013.

*Director*, Geography and Planning Honors Program, 2010-2013.

*Research Associate*, Energy Center, Center for Economic Research & Policy Analysis, 2009-2013.

*Visiting Scientist*, National Environmental Modeling and Analysis Center, UNC-Asheville, 2009.

*Faculty Member*, Community Planning Master's Program at UNC-Asheville, 2008-2013.

*Faculty Member*, Global Studies Program, 2006-2013.

*Faculty Member*, Graduate Faculty, 2007-2013.

*Associate Professor*, Geography and Planning Department, 2013.

*Assistant Professor*, Geography and Planning Department, 2007-2013.

*Adj. Assistant Professor*, Geography and Planning Department, 2005-2007.

#### **University at Buffalo, State University of New York, Amherst, NY**

*Research Assistant*, University Community Initiative, 2004-2005.

*Adjunct Professor*, Geography Department, 2000-2004.

*Research Assistant*, National Geospatial-Intelligence Agency Grant, NCGIA, Summer 2000, 2001.  
*GIS Database Consultant*, USAID-Guatemala, 2000.  
*GIS and Database Management Internship*, City of Buffalo, 2000-2001.  
*Graduate Assistant Database and Web Developer*, MCEER, 1998-1999.  
NSF Multidisciplinary Center for Earthquake Engineering Research (MCEER) Information Service.

#### **Cornell University, Ithaca, NY**

*Research Assistant*, Plant Biology Department, 1992-1994.  
*Teaching Assistant*, Rural Sociology Department, 1991-1992.

#### **RESEARCH AND TEACHING INTERESTS**

GIS Modeling, Data Science, Remote Sensing, UAS (Drones), GIS Coding, Web GIS, Natural Hazards.

#### **PROFESSIONAL AWARDS AND HONORS**

*Member*, New York State Geospatial Advisory Council, 2021-2022.  
*President*, New York State GIS Association, 2021.  
*Love of Learning Award*, Phi Kappa Phi Honor Society, 2020.  
*President-Elect*, New York State GIS Association, 2020.  
*Honored for Excellence in Research & Scholarship*, President's Office Honors, SUNY Cortland, 2019.  
*Fine Teaching Development Award*, President's Office Honors, SUNY Cortland, 2019.  
*Honored for Excellence in Research & Scholarship*, President's Office Honors, SUNY Cortland, 2018.  
*GISP of the Year*, GIS Certification Institute, 2018.  
*Inductee*, Phi Kappa Phi, National Social Science Honor Society, 2018.  
*Fellow*, Delaware River Watershed Network, Environmental Leadership Program, 2016.  
*Libraries Champion Award*, Drexel University, 2016.  
*Wachovia Faculty Award for Environmental Research*, ASU, 2013.  
*University of North Carolina Off-Campus Scholarly Assignment Sabbatical*, 2013.  
*Inductee*, Sigma Xi, International Scientific Honor Society, 2013.  
*Outstanding Poster Competition Award, Professional Category*, NC ArcGIS Users Group, 2012.  
*Graduate Mentor Award*, Academy of Outstanding Graduate Mentors, ASU, 2011.  
*Research Mentor Award, Outstanding Master's Thesis in Social Science*, ASU, 2011.  
*Inductee*, Gamma Theta Upsilon, International Geography Honor Society, 2010.  
*Research Mentor Award, Outstanding Master's Thesis in Social Science*, ASU, 2010.  
*Leadership in Sustainable Energy Award - ASUREI*, North Carolina Renewable Energy Assoc., 2009.  
*Leadership in Sustainable Energy Award - ASUREI*, North Carolina State Energy Office, 2009.  
*Research Mentor Award, Outstanding Thesis in Science and Technology*, ASU, 2009.  
*Nominated for Academy of Outstanding Teachers Award*, ASU, 2007, 2008.  
*Nominated for Outstanding Advisor Award*, ASU, 2007, 2008, 2009, 2012  
*Doctoral Academic Achievement Award*, Geography Department, University at Buffalo, SUNY, 2006.  
*Excellence in Teaching Award*, College of Arts and Sciences, University at Buffalo, SUNY, 2003.  
*Dissertation Research Fellowship*, College of Arts and Sciences, University at Buffalo, SUNY, 2001.  
*Best Paper Award*, New England Chapter, American Society of Information Science and Tech., 2000.  
*Service Excellence Award*, Libraries Website Usability Study Team, University at Buffalo, SUNY, 2000.  
*Doctoral Fellowship*, NSF IGERT in GIScience, University at Buffalo, SUNY, 1999-2003.  
*Inductee*, Beta Phi Mu, International Information Science Honor Society, 1999.  
*Graduate Scholarship*, State University of New York, University at Buffalo, SUNY, 1998-2001.  
*Outstanding Academic Achievement Award*, American Indian Program, Cornell University, 1993.

## **PART 1. TEACHING EXPERIENCE**

### **State University of New York at Cortland, Department of Geography, 2017-**

*Climate Change and Urban Sustainability [Online]*

*Cultural Geography [Online]*

*Geography of Latin America and Caribbean [Online]*

*Environmental Geography of the Adirondacks [Hybrid-Field & Online]*

*Environmental Remote Sensing [Online & In-Person]*

*Geographic Information Systems (GIS) [Online & In-Person]*

*Global Positioning Systems (GPS) Technology [Online & In-Person]*

*Historical GIS*

*Programming in GIS [Online & In-Person]*

*Web GIS [Online & In-Person]*

*Geography Senior Seminar [Online & Hybrid]*

*GIS Internship*

### **St. John Fisher College, Data Science Master's Program, Media & Communication Dept, 2019-**

#### **Mathematics, Statistics, & Computer Science Department, 2021-**

*Introduction to Business Analytics*

*Visualizing Data [Online]*

#### **Graduate**

*Data Science: Geographic Information Systems (GIS) [Hybrid]*

### **Rowan University, Department of Geography, Planning, & Sustainability, 2014-2017.**

*Cultural Geography [Hybrid]*

*Earth, People, and Environment [Hybrid x5]*

### **Appalachian State University, Department of Geography & Planning, 2005-2013.**

*Human Geography*

*Physical Geography*

*World Regional Geography*

*Honors World Regional Geography: Urban Environments and Energy Resources*

*Honors World Regional Geography: Globalization, Cities, and Environment*

*Honors Advanced Seminar: Geographic Thought and Methods*

*Honors: Thesis Research*

*Quantitative Methods*

*Cartographic Design and Analysis*

*Digital Image Processing*

*Introduction to GIS*

*Advanced GIS*

*GIS for Environmental Sciences*

*GIS for Environmental and Social Sciences*

*GIS Internship*

#### **Graduate**

*Advanced Quantitative and Qualitative Methods*

*Energy and the Urban Environment*

*Human-Environment Interaction*  
*Land Cover Change Science*  
*Digital Image Processing*  
*Advanced GIS*  
*Geovisualization and Web GIS*  
*Web GIS and Database Design*  
*GIS Databases and Modeling*  
*GIS for Environmental Sciences*  
*GIS Management*  
*GIS Thesis Research*  
*GIS Internship*

**University at Buffalo, State University of New York, Department of Geography, 2000-2004.**

*Introduction to GIS (x3)*  
*Urban Geography*  
*GIS Database Design (TA)*  
**Graduate**  
*Introduction to GIS (x3)*  
*GIS Database Design (TA)*

**Undergraduate and Graduate Student Committees**

Honors Thesis Committees [8/6 as advisor]  
Masters Committees [71/40 as advisor]

**Field Experiences in Courses [8 courses]**

Urban Forest Tree Survey, Village of Homer, NY, *Environmental Remote Sensing*, Fall 2019  
Adirondack Park, Raquette Lake area, NY, *Environmental Geography of the Adirondacks*, Summer 2019  
Adirondack Park, Raquette Lake area, NY, *Geography First Year Seminar*, Fall 2018  
Otter Creek Stream Assessment Survey, Cortland, NY, *GPS Technology*, Fall 2018  
Boone Creek Stream Assessment Survey, Boone, NC, *Advanced Quantitative Methods*, Fall 2013  
Grandfather Mountain State Park, NC, *Land Cover Change Science Graduate Seminar*, Spring 2012  
Boone Creek Stream Assessment Survey, Boone, NC, *Advanced Quantitative Methods*, Fall 2012  
Dominican Republic, Habitat for Humanity, *Service Learning: Dominican Republic Course*, Spring 2007

**Invited Guest Lecture Course List [29 courses]**

*First Year Seminars: Biodiversity, Earth, and Environmental Science; Our Future World; Science, Environment & Culture; Urban Studies- New York City.*  
*Anthropology Research Methods, Computer Science Research Seminar, Computers & Society, Design and Merchandising Seminar, GIS & Transportation, Information Visualization, Introduction to GIS, Learner Diversity in Education, Maps and Mapping, Political Economy of the Adirondacks, Tree Biology*  
*Senior Seminars: Design and Merchandising, Geography, Geography & Planning.*  
*Honors: Human Geography, Social-Environmental Systems, Service Learning: Dominican Republic*  
**Graduate**  
*Database Design for GIS, Geography Themes and Methods, Historic Documentation, Information Architecture, Information Science and Services, Renewable Energy Modeling, Research Ethics*

## PART 2. SCHOLARLY ACTIVITY

### Peer-Reviewed Publications [24]

- Badurek, C.A. 2018. Evaluation of a GIS Deforestation Model for Monitoring Exurban Growth in the Southern Appalachians. *Pennsylvania Geographer*, v. 55 (2): 24-30.
- French, J., and Badurek, C.A., 2017. Analysis of Impacts of Removing the Fort Loudoun Dam on Upstream Residential Property Values in Tennessee. In: Rice, M., and Hernandez, T., *Location Intelligence Research and Applications*. Kent: OH: Applied Geography.
- Sugg, J.W., Perry, L.B., Hall, D.K., Riggs, G.A. and Badurek, C.A., 2014. Satellite Perspectives on the Spatial Patterns of New Snowfall in the Southern Appalachian Mountains. *Hydrological Processes*, 28 (16): 4602-4613.
- Singer, A., Marland, E., Marland, G., Welker, J., Badurek, C.A., Hutchins, M., Woodard, D., Branham, M., and Ruseva, T., 2014. The Role of CO<sub>2</sub> Emissions from Large Point Sources in Emissions Totals, Responsibility, and Policy. *Environmental Science and Policy*, 44, 190-200.
- Cockerill, K., Badurek, C.A., Hale, R. 2014. Managing Water in Western North Carolina: Decision-maker Perceptions and Policy Implementation. *Journal of Environmental Practice*, 16(2): 94-101.
- Badurek, C.A., Hale, R., and Cockerill, K., 2013. Comparative Analysis of Attitudes towards Water Management Decision-making in Western North Carolina. *Applied Geography Papers*, no. 36.
- Hutchins, M.G., and Badurek, C.A., 2013. GIS Analysis of Power Plant Carbon Dioxide Emission Inventory Databases in the Continental United States. *Applied Geography Papers*, no. 36.
- French, J., and Badurek, C.A., 2013. Analysis of Impacts of Removing the Fort Loudoun Dam on Upstream Residential Property Values in Tennessee. *Applied Geography Papers*, no. 36.
- Wize, B., and Badurek, C.A., 2013. GIS Modeling to Site Wind Power Parks in the New River Gorge Region, WV. *Pennsylvania Geographer*, v. 50.
- Badurek, C.A., and Pine, J.C. 2012. Lessons Learned from Application of GIS to the Gulf Oil Spill Disaster. *Florida Geographer*, v. 43.
- Badurek, C.A., and Frauman, E. 2012. Assessment of GIS Methods for Mapping Perceptions of Forested Landscapes in Western North Carolina. *North Carolina Geographer*, v. 19, 4-19.
- Philyaw, P.D., and Badurek, C.A., 2012. Application of a GIS-based Forest Loss Susceptibility Model for Regional Land Use Planning. *Papers of the Applied Geography Conference*, no. 35.
- Blanchard, R.D., Carter, M., Kent, R., and Badurek, C.A., 2012. The Value of an Internship Experience for Early Career Geographers. In: Solem, M., Foote, K., and Monk, J., *Practicing Geography: Careers for Enhancing Society and the Environment*. Washington, DC: AAG Press.
- Hagevik, C., and Badurek, C.A., 2011. Temporal Analysis of Climatological Drought in Watauga County, 1940 to 2009. *North Carolina Geographer*, v. 18, p. 19-33.
- Waynick, J.S., and Badurek, C.A., 2011. GIS Analysis of Surveyed Perceptions of Safety and Campus Crime. *Papers of the Applied Geography Conference*, no. 34.
- Hagevik, C., and Badurek, C.A., 2011. Visualizing the Social and Political Divides of Bolivia with Multivariate Maps. *Pennsylvania Geographer*, v. 49, no. 1, p. 3-17.
- Badurek, C.A. 2010. Using GIS to Examine Exurban Density Patterns in Watauga County, NC. *North Carolina Geographer*, v. 17, p. 26-37.
- Turner, J.R., and Badurek, C.A. 2010. A GIS Model for Identification and Classification of Carolina Bays. *North Carolina Geographer*, v. 17, p. 5-16.
- McLawnhorn, J., Badurek, C.A., and Tuberty, S., 2010. Land Use Land Cover and Trace Metal Runoff from Poultry Litter Application. *Papers of the Applied Geography Conference*, no. 33, p. 393-400.

- Badurek, C.A., and Chamberlain, A., 2010. A GIS Method for Analyzing Housing Density Histories and Rural Land Use Change Processes in Watauga County, NC. *Papers of the Applied Geography Conference*, no. 33, p. 383-391.
- Badurek, C.A., 2009. Identifying Barriers to GIS-based Land Management in Guatemala. *Development in Practice*, v. 19 (2), p. 248-258.
- Hunter, L.A., and Badurek, C.A. 2009. Integration of GIS and Geosensors for Environmental Monitoring and Precision Viticulture in Northwestern North Carolina. *Papers of the Applied Geography Conference*, no. 32, p. 243-251
- Badurek, C.A., 2007. Facilitating Inquiry into Spatial Displacement with GIS. *Sociation Today*, 5(1).
- Brunskill, J.C., and Badurek, C.A., 2004. GIS Case Study: Snowboarding in New York State. In: Herried, K., and Schiller, N., (Eds.) *Case Studies in Science Teaching, The National Center for Case Study Teaching in Science Case Collection*. Buffalo, NY: NCCSTS.

### **Works in Review**

- Badurek, C.A., and Jimenez, J. Our Carbon Debt: A Curriculum for Interdisciplinary Education on the Impacts of Climate Change. In: *Our Carbon Debt*, B. Wilson (Ed.) Palgrave.

### **Encyclopedia Articles, Book Reviews, & Journal Commentary [28]**

- Badurek, C.A., 2022. Review of Strata: William Smith's Geological Maps, edited by Oxford University Museum of Natural History. In *Cartographic Perspectives*, (in progress)
- Badurek, C.A., 2021. Review of Thinking with Maps: Understanding the World through Spatialization, by Bruce, B.C. In *Choice*, 59 (8).
- Badurek, C.A., 2021. Review of Mapping, Monitoring, and Modeling Land and Water Resources: Advanced Techniques using Open Source Software. edited by Shit, P.K., Das, P., Bhunia, G.S., and Dutta, D. In *Choice*, 59 (7).
- Badurek, C.A., 2021. Review of Spatial Analysis in Field Primatology: Applying GIS at Varying Scales, edited by Dolins, F.L., Shaffer, C.A., Porter, L.M., Hickey, J.R., and Nibbelink, N.P. In *Choice*, 59 (4).
- Badurek, C.A., 2021. Review of The Power of Narrative: Climate Skepticism and the Deconstruction of Science, by Lejano, R.P. and Nero, S.J. In *Choice*, 59 (3).
- Badurek, C.A., 2021. Review of R Visualizations: Derive Meaning from Data, by Gerbing, D.W. In *Choice*, 58 (11).
- Badurek, C.A., 2021. Review of Mapping Crisis: Participation, Datafication and Humanitarianism in the Age of Digital Mapping, edited by Specht, D. In *Choice*, 58 (10).
- Badurek, C.A., 2020. Review of Cloud Computing in Remote Sensing, by Wang, L., Yan, J., and Ma, Y. In *Choice*, 58 (8).
- Badurek, C.A., 2020. Review of Introduction to Web Mapping, by Dorman, M. In *Choice*, 58 (6).
- Badurek, C.A., 2020. Review of Enterprise GIS: Concepts and Applications, by Woodard, J.R. In *Choice*, 58 (4).
- Badurek, C.A., 2020. Review of Sustainable Development Goals Connectivity Dilemma: Land and Geospatial Information for Urban and Rural Resilience, edited by Rajabifard, A. In *Choice*, 58 (4).
- Badurek, C.A., 2020. Review of Map of the World: Introduction to Mathematical Geodesy, by Vermeer, M., and Rasila, A. In *Choice*, 58, (3).
- Badurek, C.A., 2020. Review of Patch Atlas: Integrating Design Practices and Ecological Knowledge for Cities as Complex Systems, by Marshall, V.J., Cadenasso, M.L., McGrath, B.P., and Pickett, S.T.A. In *Choice*, v. 58, no. 1.

- Badurek, C.A., 2020. Review of Connections and Content: Reflections on Networks and the History of Cartography, by Monmonier, M. In *Choice*, v. 58, no. 1.
- Badurek, C.A., 2019. Review of Getting to Know Web GIS, 3<sup>rd</sup> Ed., by P. Fu. In *Pennsylvania Geographer*, v. 57.
- Badurek, C.A., 2012. Investor Owned Utilities. In: Pierce, M.A., (Ed.), *Encyclopedia of Energy*. Pasadena, CA: Salem Press.
- Badurek, C.A., 2012. Belize Utilities, Energy Sources and Transmission. In: Pierce, M.A., (Ed.), *Encyclopedia of Energy*. Pasadena, CA: Salem Press.
- Badurek, C.A., 2012. North Carolina Utilities, Energy Sources and Transmission. In: Pierce, M.A., (Ed.), *Encyclopedia of Energy*. Pasadena, CA: Salem Press.
- Badurek, C.A., 2012. Tennessee Utilities, Energy Sources and Transmission. In: Pierce, M.A., (Ed.), *Encyclopedia of Energy*. Pasadena, CA: Salem Press.
- Badurek, C.A., 2012. NCGS Educator of the Year Awarded. *North Carolina Geographer*, v. 19, p.
- Badurek, C.A., 2011. Wind Turbines. In: Robbins, P., (Ed.), *Encyclopedia of Green Technology*. Thousand Oaks, CA: Sage Press.
- Badurek, C.A., 2011. Biogas. In: Robbins, P., (Ed.), *Encyclopedia of Green Technology*. Thousand Oaks, CA: Sage Press.
- Badurek, C.A., 2011. Review of Crude World: The Violent Twilight of Oil, by P. Maass. In *Pennsylvania Geographer*.
- Badurek, C.A., 2009. Review of What is Geography, by A. Bonnett. In *Journal of Geography*, 108(4), 234.
- Badurek, C.A., 2003. Review of Information Visualization in Data Mining and Knowledge Discovery, by U. Fayyad, G.G. Grinstein, and A. Wierse, Eds. In *Journal of the American Society for Information Science and Technology*, v. 54, no. 9, p. 905-906.
- Badurek, C.A., 2001. Review of Special Edition Using XHTML, by M. Holzschlag. In *Internet Reference Services Quarterly*, v. 5, no. 4, p. 94-95.
- Badurek, C.A., 2001. Review of The ABCs of XML, by N. Desmarais. In *Internet Reference Services Quarterly*, v. 5, no. 3, p. 97-98.
- Badurek, C.A., 2000. Managing GIS in Academic Libraries. *Information Bulletin of the Western Association of Map Libraries*, v. 31, no. 2, p. 110-114.

### **Published Conference Proceedings [52]**

- Rozelle, A., and Badurek, C.A. 2021. Web Mapping Fake News: Social Media and #BLM Protests in Rochester, NY. *Race, Ethnicity, and Place / Mid-Atlantic AAG Conference: Abstracts, Baltimore, MD*.
- Badurek, C.A., and \*Bonfiglio, B. 2021. Comparison of GIS-based Carbon Sequestration Estimation Methods at Varying Scales in Cortland County, NY. *44th Applied Geography Conference: Abstracts, Toledo, OH, p.*
- Bonfiglio, B, and Badurek, C.A. 2021. Assessing College Campus Carbon Sequestration Estimates using i-Tree Canopy. *44th Applied Geography Conference: Abstracts, Toledo, OH, p.*
- Badurek, C.A., and Ochs, J. 2021. Teaching GIS, GPS, and UAS Technologies through a Multidisciplinary Pitch Contest. In: *Geological Society of America (GSA) Abstracts with Programs*, v. 53, no. 1.
- Crocker, B., Brierton, C., and Badurek, C.A. 2020. GIS Analysis Using Archived UAS Data for Ice Jam Flooding in Plymouth, NH. In: *Geological Society of America (GSA) Abstracts with Programs*, v. 53, 1.
- Badurek, C.A. 2020. Results from UAS, GIS, and Remote Sensing Curriculum Integration Assessment. *Geological Society of America (GSA) Abstracts with Programs*, v. 52, no. 6.
- Brierton, C., and Badurek, C.A. 2020. Reuse of Archived UAS Data for GIS Analysis of Ice Jam Flooding in Plymouth, NH. *Geological Society of America (GSA) Abstracts with Programs*, v. 52, no. 6.

- Badurek, C.A. 2020. GIS and Geovisualization Methods for Assessing Impacts of the Flood of 2011 in Binghamton, NY. In: *Proceedings, Meeting of the Geoscience Information Society, 2018*, v. 46, p. 26.
- Badurek, C.A., and Miller, W.E. 2020. Assessment Methods for Undergraduate STEM Courses Integrating Geographic Information Technologies. In: *Proceedings, Meeting of the Geoscience Information Society, 2018*, v. 46, p. 25. ISSN: 0072-1409
- Badurek, C.A., 2020. Use of Web GIS and Satellite Imagery for Teaching Concepts of Uncertainty in Earth Science Data. In: *Proceedings, Meeting of the Geoscience Information Society, 2017*, v. 45, p. 40.
- Badurek, C.A., and Miller, W.E. 2018. Assessment Methods for Undergraduate STEM Courses Integrating Geographic Information Technologies. *GSA Abstracts with Programs*, v. 50.
- Badurek, C.A. 2018. GIS and Geovisualization Methods for Assessing Impacts of the Flood of 2011 in Binghamton, NY. *Geological Society of America (GSA) Abstracts with Programs*, v. 50.
- Badurek, C.A. 2018. GIS Modeling of the Invasive Species Purple Loosestrife and Japanese Stilt Grass in the Southern Appalachians. *Conference Program and Abstracts 41<sup>st</sup> Applied Geography Conference*, p. 53. ISSN: 0747-5160.
- Yarborough, B., and Badurek, C.A. 2018. Application of Geovisualization Methods for Assessing the Flood of 2011 in Binghamton, NY. *Conference Program and Abstracts 41<sup>st</sup> Applied Geography Conference*, p. 38. ISSN: 0747-5160.
- Badurek, C.A., 2017. Use of Web GIS and Satellite Imagery for Teaching Concepts of Uncertainty in Earth Science Data. *Geological Society of America (GSA) Abstracts with Programs*, v. 49.
- Badurek, C.A., 2017. Research Data Competencies for eScience Use of GIS and Imagery Data in the Geosciences. In: *Proceedings, Meeting of the Geoscience Information Society, 2017*, v. 44, p. 216.
- Badurek, C.A., 2017. Assessment of Greenhouse Gas Data Sets across the Data Lifecycle. In: *Proceedings of the Annual Meeting of the Geoscience Information Society, 2017*, v. 44, p. 151.
- Christe, D., Mathur, R., Lee, S., Mazur, K., Badurek, C.A., Bhatt, J., and Morton, M., 2016. A Game-based Learning Approach to Information Literacy: Knovel Global Academic Challenge. *Proceedings of the American Society for Engineering Education Annual Meeting, New Orleans, LA, June 2016*.
- Badurek, C.A., 2016. Research Data Competencies for eScience Use of GIS and Imagery Data in the Geosciences. In: *Geological Society of America (GSA) Abstracts with Programs*, v. 48.
- Badurek, C.A., 2015. Assessment of Greenhouse Gas Data Sets across the Data Lifecycle. In: *Geological Society of America (GSA) Abstracts with Programs*, v. 47.
- Hutchins, M.G., and Badurek, C.A., 2013. GIS Analysis of Power Plant Carbon Dioxide Emission Inventory Databases in the Continental United States. *36th Applied Geography Conference: Abstracts, Annapolis, MD*, p.
- French, J., and Badurek, C.A., and Pine, J.C. 2013. Analysis of Impacts of Removing the Fort Loudon Dam on Upstream Residential Property Values in Tennessee. *36th Applied Geography Conference: Abstracts, Annapolis, MD*, p.
- Badurek, C.A., Hale, R., and Cockerill, K., 2013. Comparative Analysis of Attitudes towards Water Management Decision-making in Western North Carolina. *36th Applied Geography Conference: Abstracts, Annapolis, MD*, p.
- Sugg, J.W., Perry, L.B., Hall, D.K., Riggs, G., and Badurek, C.A., 2013. Satellite Perspectives on the Spatial Patterns of New Snowfall in the Appalachian Mountains. *Proceedings of the Eastern Snow Conference, Huntsville, ON, June 4-6, 2013*.
- Hale, R., Cockerill, K., Badurek, C.A. 2012. Analysis of Decision-making in Sustainable Water Resource Management in Headwater Regions of Western North Carolina. In: *Geological Society of America (GSA) Abstracts with Programs*, v. 44, p. 405.



- Cockerill, K., Hale, R., Badurek, C.A., and Groothuis, P., 2012. No Worries: Decision Maker and Public Attitudes about Water in Western North Carolina. In: *GSA Abstracts with Programs*, v. 44, p. 472.
- Hutchins, M., Ballow, W., Cowan, E., and Badurek, C.A., 2012. Assessment of a GIS Model for the Identification of Stream Terraces at the Headwaters of the New River, Blue Ridge Physiographic Province. In: *Geological Society of America (GSA) Abstracts with Programs*, v. 44, p. 421.
- Badurek, C.A., Hale, R., and Cockerill, K., 2012. Survey Analysis of Sustainable Water Resource Planning in the Headwaters of Southern Appalachia. *35th Applied Geography Conference: Abstracts, Minneapolis, MN, p.*
- Philyaw, D., and Badurek, C.A., 2012. Application of a GIS-based Forest Loss Susceptibility Model for Regional Land Use Planning. *35th Applied Geography Conference: Abstracts, Minneapolis, MN, p.*
- Cockerill, K., Hale, R., and Badurek, C.A., 2012. Land Use, Water Resources, and Potential Planning Disconnects. In: *GSA Abstracts with Programs, Southeastern Section*, v. 44, no. 4, p. 65.
- Hutchins, M., Cowan, E., and Badurek, C.A., 2012. Identification and Geomorphometric Assessment of Stream Terraces along the North and South Fork of the New River, Blue Ridge Physiographic Province. In: *GSA Abstracts with Programs, Southeastern Section*, v. 44, no. 4, p. 78.
- Badurek, C.A., 2011. Assessment of a GIS Model of Building Density to Monitor Exurban Development and Rural Sprawl. *34th Applied Geography Conference: Abstracts, Redlands, CA, p.*
- Badurek, C.A., and Pine, J.C., 2011. Lessons Learned from Application of GIS and Remote Sensing to the Gulf Oil Spill Disaster in Louisiana. *34th Applied Geography Conference: Abstracts, Redlands, CA, p.*
- Waynick, J.S., and Badurek, C.A., 2011. GIS Analysis of Surveyed Perceptions of Safety and Campus Crime to Improve Environmental Design. *34th Applied Geography Conference: Abstracts, Redlands, CA, p.*
- Badurek, C.A., 2010. Relation of Housing Density Growth to Land Use and Land Cover Change along the S. Fork New River. *33rd Applied Geography Conference Program and Proceedings, Fort Worth, TX, p.*
- Pack, J., Badurek, C.A., and Tuberty, S., 2010. Land Use Land Cover and Trace Metal Runoff from Poultry Litter Application. *33rd Applied Geography Conference Program and Proceedings, Fort Worth, TX, p.*
- Badurek, C.A., and Chamberlain, A., 2009. A GIS Analysis of Housing Density Histories and Rural Land Use Change Processes in Watauga County, NC. *32nd Applied Geography Conference Program and Proceedings, Baton Rouge, LA, p.*
- Badurek, C.A., and Hunter, L.A., 2009. Integration of GIS and Geosensors for Environmental Monitoring and Precision Viticulture in Northwestern North Carolina. *32nd Applied Geography Conference Program and Proceedings, Baton Rouge, LA, p.*
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### **Reviewed Newsletter Articles, Media Articles, & Published Maps [46]**

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- Badurek, C.A., 2019. President's Column: What's in Your Makerspace and Who is Visiting? *Geoscience Information Society Newsletter*, 281, p.
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### **Conference Presentations [279, \*mentored undergraduates]**

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- Badurek, C.A., \*Brierton, C, and \*Soule, S. 2022. Developing Citizen Science Web GIS Applications for Monitoring Invasive Plants. *Mid-Atlantic Science Education for New Civic Engagements and Responsibilities (SENCER) Conference, January 15, 2021.*
- Badurek, C.A., and \*Brierton, C. 2021. Developing a Citizen Science Web GIS Application for Reporting Invasive Plants in Cortland County, NY. *NY Invasive Species Summit, Albany, NY, November 16, 2021.*
- \*Soule, S., and Badurek, C.A. Developing a Web GIS Dashboard and Geodatabase for Invasive Plant Management at Finger Lakes National Forest, NY. *New York Invasive Species Summit, Albany, NY, November 16, 2021.*
- Badurek, C.A. 2021. Integrating UAS and Geotech Courses with STEM Entrepreneurship Training. *Middle States Division, American Association of Geographers Conference, Oct. 29-30, 2021.*
- Rozelle, A., and Badurek, C.A. 2021. Web Mapping Fake News: Social Media and #BLM Protests in Rochester, NY. *Race, Ethnicity, and Place / Mid-Atlantic AAG Conference, October 20-23, 2021.*
- Badurek, C.A., and \*Bonfiglio, B. 2021. Comparison of GIS-based Carbon Sequestration Estimation Methods at Varying Scales in Cortland County, NY. *Applied Geography Conference, Oct. 14-16, 2021.*
- \*Bonfiglio, B, and Badurek, C.A. 2021. Assessing College Campus Carbon Sequestration Estimates using i-Tree Canopy. *Applied Geography Conference, October 14-16, 2021.*
- Badurek, C.A. 2021. Pandemic Impacts on the GIS Community Roundtable. *NY State GIS Association Annual Meeting, 2021.*
- Badurek, C.A., and Ochs, J. 2021. Teaching Social and Economic Impacts of Drone Technologies through a Multidisciplinary Pitch Contest. *SUNY Conference on Instruction & Technology (CIT), May 26, 2021.*
- Badurek, C.A. 2021. Effective Mentoring of Online Undergraduate Research and Internship Projects. *SUNY Conference on Instruction & Technology (CIT), May 26-30, 2021.*
- Ochs, J., Badurek, C.A., Koch, R., and Pekarek, J. 2020. Tired of Video Conferencing Fatigue? Explore Tools to Increase Learner Engagement and Energize the Class. *SUNY Conference on Instruction & Technology (CIT), May 26, 2021.*
- Badurek, C.A. 2021. Challenges for UAS Research at Comprehensive Colleges. *Systems and Technologies for Remote Sensing Applications through Unmanned Aerial Systems (STRATUS) 2021 Conference, May 17-20, 2021.*
- Badurek, C.A. 2021. Results from UAS, GIS, and Remote Sensing Curriculum Integration Assessment. *Systems and Technologies for Remote Sensing Applications through Unmanned Aerial Systems (STRATUS) 2021 Conference, May 17-20, 2021.*
- Badurek, C.A. 2021. Challenges in Integrating Greenhouse Gas GIS Data into Climate Change Education. *City University of New York (CUNY) Conference on Climate Change Education, April 22-23, 2021.*
- \*Bonfiglio, B., and Badurek, C.A. 2021. Analysis of Impact of COVID-19 on Nitrogen Dioxide and Sulfur Dioxide Concentrations Across the Northeastern United States, 2019-2021. *City University of New York (CUNY) Conference on Climate Change Education, April 22-23, 2021.*
- \*Brierton, C., and Badurek, C.A. 2021. Analysis of Urban Tree Problems Identified by Community Tree Survey of the Village of Homer, NY. *SUNY Undergraduate Research Conference, April 9, 2021.*
- Badurek, C.A., and Ochs, J. 2021. Teaching GIS, GPS, and UAS Technologies through a Multidisciplinary Pitch Contest. *GSA-Northeastern Section Meeting, March 14-16, 2021.*
- \*Crocker, B., \*Brierton, C., and Badurek, C.A. 2020. GIS Analysis Using Archived UAS Data for Ice Jam Flooding in Plymouth, NH. *GSA-Northeastern Section Meeting, March 14-16, 2021.*

- Badurek, C.A., and \*Brierton, C. 2021. Development of the Cortland Invasive Species Web Map. *iMap3 Web Mapping Service & ArcGIS Online Workshop, New York Natural Heritage Program, NYSDEC, March 2, 2021.*
- Badurek, C.A. 2021. Using GIS to Communicate Value of Urban Trees in Civic Engagement Geography Courses. *Mid-Atlantic Science Education for New Civic Engagements and Responsibilities (SENCER) Conference, January 16, 2021.*
- Badurek, C.A. 2020. Results from UAS, GIS, and Remote Sensing Curriculum Integration Assessment. *Geological Society of America (GSA) Annual Meeting, Oct. 26-30, 2020.*
- \*Brierton, C., and Badurek, C.A. 2020. Reuse of Archived UAS Data for GIS Analysis of Ice Jam Flooding in Plymouth, NH. *Geological Society of America (GSA) Meeting, Oct. 26-30, 2020.*
- Badurek, C.A. 2020. Mentoring Undergraduate GIS Research Experiences Online during COVID-19. *SUNY Faculty Development Conference: Teaching & Learning for Student Success, October 19-23, 2020.*
- Badurek, C.A., and Wilson, B. 2020. Application of Common Problems Pedagogy in a Hybrid Field Course on Sustainable Development of Adirondack Park, NY. *SUNY Faculty Development Conference: Teaching & Learning for Student Success, October 19-23, 2020.*
- Badurek, C.A., and Shimizu, M. 2020. Assessing Use of GIS and Tree Surveys in Civic Engagement Geography Courses. *SUNY Faculty Development Conference: Teaching & Learning for Student Success, October 19-23, 2020.*
- Badurek, C.A., and Shimizu, M. 2020. Assessing Effectiveness of Integrating Mobile Apps, Tree Surveys, and Civic Engagement in GIS Courses. *Applied Geography Conference, Oct. 18-20, 2020.*
- \*Brierton, C., and Badurek, C.A. 2020. Analysis of Urban Tree Problems Identified by Community Tree Survey of the Village of Homer, NY. *Applied Geography Conference, Oct. 18-20, 2020.*
- Badurek, C.A., and Rozelle, A. 2020. Woman Suffrage Strategy: Mapping New York State Suffrage Organizations and Conventions with Web GIS. *SUNY Digital Pedagogy in the Humanities Symposium, Sept. 25, 2020.*
- Badurek, C.A., and Broyles, S. 2020. Analysis of Species Distribution and Ecosystem Services from Community Tree Survey of the Village of Homer, NY. *Finger Lakes Research Conference, Geneva, NY, Jan. 15, 2020.*
- Badurek, C.A., Berger, K., and Rozelle, A., 2019. Integrating Sustainability and Community Engaged Learning in Courses on Energy, Communication, and GIS. *State of New York Sustainability Conference, Rochester, NY, Nov. 13-15, 2019.*
- Badurek, C.A. 2019. Assessment of Effectiveness of UAS Drone Training in GIS Technology Education. *Association of Pacific Coast Geographers Conference, Flagstaff, AZ, Oct 18-19, 2019.*
- Badurek, C.A. 2019. Integrating UAS Drone Training into Applied GIS Education. *NYGeoCon, NY State GIS Association Conference, Syracuse, NY, Sept 23-24, 2019.*
- Little, J., and Badurek, C.A. 2019. Open Geospatial Lab (OGL) and Remote Workforce Opportunities across Rural New York State. *NYS GIS Association Conference, Syracuse, NY, Sept 23-24, 2019.*
- \*Raymond, M., and Badurek, C.A. 2019. Assessment of Land Use Land Cover Change 2009 - 2015 around Onondaga Lake, NY. *NYGeoCon, NY State GIS Association Conference, Syracuse, NY, Sept 23-24, 2019.*
- \*Rozwod, B., \*Schmidt, M., \*Herrling, L., Wilson, B., Moranda, S., Badurek, C.A. Application of GIS in an Interdisciplinary Field Course on Sustainable Development of Adirondack Park, NY. *NYGeoCon, NY State GIS Association Conference, Syracuse, NY, Sept 23-24, 2019.*
- Badurek, C.A. 2019. GIS and Education Workshop Panel. *NYGeoCon, NY State GIS Association Conference, Syracuse, NY, Sept 22, 2019.*
- Badurek, C.A. 2019. Integrating UAS Drone Training and GIS into STEM and Social Science Education. *SUNY Conference on Instruction & Technology (CIT), Purchase, NY, May 29-31, 2019.*

- Badurek, C.A., and Rozelle, A. 2019. Using Social Media and Web Platforms to Map and Communicate New York State Ecotourism Information. *SUNY CIT, Purchase, NY, May 29-31, 2019.*
- Badurek, C.A., and Levine, A. 2019. Building Campus Apps: Integrating Web GIS Education and Campus Data Management. *Genesee Finger Lakes GIS Conference, Pittsford, NY, April 9, 2019.*
- \*Williams, L., and Badurek, C.A. 2019. The Cortland Votes Project and GIS Analysis of NY Congressional District 22 Results. *Genesee Finger Lakes GIS Conference, Pittsford, NY, April 9, 2019.*
- Rozelle, A., and Badurek, C.A. 2019. Identifying Environmental Threats to the Finger Lakes as an Ecotourism Destination. *Genesee Finger Lakes GIS Conference, Pittsford, NY, April 9, 2019.*
- Johnston-Anumonwo, I., Shimizu, M., Badurek, C. Miller, W., Anderson, S. 2019. The Undergraduate Geography Experience at SUNY Cortland - Faculty Perspective. *American Association of Geographers Annual Meeting, Washington, DC, April 3-7, 2019.*
- Badurek, C.A., Neiderhofer, C., Mosher, H., and Lagaly, B. 2019 Invasive Plants Geodatabase and GIS Analysis for the Finger Lakes National Forest, NY. *Finger Lakes Conference, Geneva, NY, Jan. 23, 2019.*
- Rozelle, A., and Badurek, C.A. 2019. Identifying Environmental Threats to the Finger Lakes as an Ecotourism Destination. *Finger Lakes Institute Research Conference, Geneva, NY, Jan. 23, 2019.*
- Badurek, C.A., and Miller, W.E. 2018. Assessment Methods for Undergraduate STEM Courses Integrating Geographic Information Technologies. *GSA Meeting, Indianapolis, IN, Nov. 4-7, 2018.*
- Badurek, C.A. 2018. GIS and Geovisualization Methods for Assessing Impacts of the Flood of 2011 in Binghamton, NY. *Geological Society of America (GSA) Meeting, Indianapolis, IN, Nov. 4-7, 2018.*
- Badurek, C.A. 2018. GIS Modeling of the Invasive Species Purple Loosestrife and Japanese Stilt Grass in the Southern Appalachians. *Applied Geography Conference, Kent, OH, Nov. 1-2, 2018.*
- \*Yarborough, B., and Badurek, C.A. 2018. Application of Geovisualization Methods for Assessing the Flood of 2011 in Binghamton, NY. *Applied Geography Conference, Kent, OH, Nov. 1-2, 2018.*
- Badurek, C.A. 2018. Land Cover Change and Flooding Risk in the Chenango Watershed. *NOAA Bay Watershed Education and Training (B-WET) Symposium, Cornell University, Ithaca, NY, May 2018.*
- Badurek, C.A. 2018. Developing Data Literacy Competencies in STEM Disciplines using Web GIS Resources. *SUNY Conference on Instruction & Technology, Cortland, NY, May 24, 2018.*
- Badurek, C.A., and Miller, W.E. 2018. Assessment Methods for Courses Integrating Geographic Information Technologies. *SUNY Conf. on Instruction & Technology, Cortland, NY, May 23, 2018.*
- \*Homer, A., and Badurek, C.A., 2018. Assessment of Land Use and Land Cover Classification Methods for the Chenango Watershed, NY. *Genesee Finger Lakes GIS Conference, Pittsford, NY, April 10, 2018.*
- Badurek, C.A., 2017. GIS Modeling of the Invasive Species Purple Loosestrife and Japanese Stilt Grass. *Finger Lakes Institute Research Conference, Geneva, NY, Nov. 17, 2017.*
- Badurek, C.A., 2017. Use of Web GIS and Satellite Imagery for Teaching Concepts of Uncertainty in Earth Science Data. *Geological Society of America (GSA) Annual Meeting, Seattle, WA, Oct. 22-25, 2017.*
- Badurek, C.A., 2017. R-based GIS Modeling of Invasive Plants along the Appalachian Trail. *NYGeoCon, New York State GIS Association Conference, Lake Placid, NY, October 18-19, 2017.*
- Badurek, C.A., 2017. Impacts of Exurban Housing Development on Forested Land Cover of the Southern Appalachians. *NYGeoCon, NYS GIS Association Conference, Lake Placid, NY, October 18-19, 2017.*
- Badurek, C.A., 2017. Assessment of Limitations to Effective eScience Use of GIS and Satellite Imagery Data Resources in Climate Science. *Research Data Access & Preservation, Seattle, WA, Apr 19, 2017.*
- Badurek, C.A., 2016. Research Data Competencies for eScience Use of GIS and Imagery Data in the Geosciences. *Geological Society of America (GSA) Annual Meeting, Denver, CO, Sept. 27, 2016.*
- Christe, D., Mathur, R., Lee, S., Mazur, K., Badurek, C.A., Bhatt, J., and Morton, M., 2016. A Game-based Learning Approach to Information Literacy: Knovel Global Academic Challenge. *American Society for Engineering Education Annual Meeting, New Orleans, LA, June, 2016.*

- Badurek, C.A., 2016. Assessment of Potential Limits to Effective eScience Use of Greenhouse Gas Data Sets. *eScience Symposium, Worcester, MA, April 6, 2016.*
- Badurek, C.A., 2015. Assessment of Greenhouse Gas Data Sets across the Data Lifecycle. *Geological Society of America (GSA) Annual Meeting, Baltimore, MD, Nov. 3, 2015.*
- Badurek, C.A., 2014. Tools for Resilience Planning, *New Jersey League of Municipalities Annual Conference, Atlantic City, NJ, November 13, 2014.*
- Badurek, C.A., Marland, G., Marland, E., Hutchins, M., Welker, J., Branham, M., Buckingham, G., Woodard, D., 2013. Resolution and Uncertainty in Spatial CO<sub>2</sub> Emissions Estimates. *American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 9-13, 2013.*
- Bowman, K., Liu, J., Lee, M., Gurney, K., Menemenlis, D., Brix, H., Hill, C., Denning, S., Haynes, K., Baker, I., Henze, D., Bousserrez, N., Marland, G., Marland, E., and Badurek, C.A., 2013. Estimates of Carbon Cycle Surface Fluxes from the NASA Carbon Monitoring System Flux Pilot Project. *American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 9-13, 2013.*
- Badurek, C.A., 2013. Mentoring Student Research Panel Session. *Southeastern Division of the AAG Annual Meeting, Roanoke, VA, Nov. 24-26, 2013.*
- Cooper, C., Badurek, C.A., Cockerill, K., and Groothius, P., 2013. Public Perception about Willingness to Pay for Water Conservation in Western North Carolina. *SEDAAG, Roanoke, VA, Nov. 24-26, 2013.*
- Lattea, J., and Badurek, C.A., 2013. A Comparative Analysis of Travel Economic Impact on North Carolina's Blue Ridge Parkway Counties. *SEDAAG Annual Meeting, Roanoke, VA, Nov. 24-26, 2013.*
- Chapman, A., Badurek, C.A., and Pine, J.C., 2013. Application of a Subwatershed Prioritization Index to Support the New River Analytics Consortium. *SEDAAG Meeting, Roanoke, VA, Nov. 24-26, 2013.*
- Badurek, C.A., Chapman, A., Flanagan, M., and Jackson-Jordan, C., 2013. Impacts of Exurban Housing Development on Density of Forested Areas of the Southern Appalachians. *SEDAAG Meeting, Roanoke, VA, Nov. 24-26, 2013.*
- Badurek, C.A., 2013. Analysis of Uncertainty in Carbon Dioxide Point Source Emission Estimates in the Southeastern US. *SEDAAG Annual Meeting, Roanoke, VA, Nov. 24-26, 2013.*
- Hutchins, M.G. and Badurek, C.A., 2013. GIS Analysis of Carbon Dioxide Emissions from Power Plants in the Southern and Central Appalachian Region. *SEDAAG Meeting, Roanoke, VA, Nov. 24-26, 2013.*
- Welker, J., and Badurek, C.A., 2013. Prediction of Fossil Fuel Point Source Locations in South Africa using Remotely Sensed Atmospheric Data. *SEDAAG Meeting, Roanoke, VA, Nov. 24-26, 2013.*
- Bowman, K., Liu, J., Lee, M., Gurney, K., Menemenlis, D., Brix, H., Hill, C., Denning, S., Haynes, K., Baker, I., Henze, D., Bousserrez, N., Marland, G., Marland, E., and Badurek, C.A., 2013. Estimates of Carbon Cycle Surface Fluxes from the NASA Carbon Monitoring System Flux Pilot Project. *NASA Carbon Monitoring System Annual Meeting, NASA Jet Propulsion Lab, Cal Tech, Nov. 6-7, 2013.*
- Hutchins, M.G., and Badurek, C.A., 2013. GIS Analysis of Power Plant Carbon Dioxide Emission Inventory Databases in the Continental United States. *Applied Geography and Mid Atlantic Division of the AAG Joint Conference, Annapolis, MD, Oct. 30-31, 2013.*
- French, J., and Badurek, C.A., and Pine, J.C. 2013. Analysis of Impacts of Removing the Fort Loudon Dam on Upstream Residential Property Values in Tennessee. *Applied Geography and Mid Atlantic Division of the AAG Joint Conference, Annapolis, MD, Oct. 30-31, 2013.*
- Badurek, C.A., Hale, R., and Cockerill, K., 2013. Comparative Analysis of Attitudes towards Water Management Decision-making in Western North Carolina. *Applied Geography and Mid Atlantic Division of the AAG Joint Conference, Annapolis, MD, Oct. 30-31, 2013.*
- Badurek, C.A., and Hutchins, M.G., 2013. Quantifying North Carolina's Carbon Dioxide Emissions with GIS: Uses and Limitations. *NCAUG Meeting, Carolina Beach, NC, Oct. 24-26, 2013.*



- Welker, J., and Badurek, C.A., 2013. Identification of Point Sources of Carbon Emissions using Atmospheric Imagery and ArcGIS. *NCUAG Meeting, Carolina Beach, NC, Oct. 24-26, 2013.*
- Flanagan, M., Chapman, A., and Badurek, C.A., 2013. Accuracy of Land Cover Classification at Housing Developments in Watauga County, NC. *NCAUG Meeting, Carolina Beach, NC, Oct. 24-26, 2013.*
- Badurek, C.A., 2013. Student Developed Mobile Web Mapping Applications. *North Carolina ArcGIS Users Group Meeting, Carolina Beach, NC, Oct. 24-26, 2013.*
- \*Woodard, D., \*Branham, M., Hutchins, M., Welker, J., Badurek, C.A., Marland, G., and Marland, E. 2013. An Uncertainty Metric for Anthropogenic CO<sub>2</sub> Emissions from Point Sources. *International Symposium on Biomathematics and Ecology Education and Research, Arlington, VA, Oct. 11-13, 2013.*
- French, J., Badurek, C.A., and Pine, J.C. 2013. GIS Analysis of Impacts of TVA Dam Removal on Upstream Residential Property Values in Eastern Tennessee. *Natural Hazards Research and Applications Workshop, Broomfield, CO, July 10-12, 2013.*
- Badurek, C.A., Salinas, R., Dobson, G., Madritch, M., Morgan, A. 2013. Integrating Housing Economics, GIS Modeling, and Ecosystem Services in the Southern Appalachians. *Coupled Human and Natural Systems Workshop on Modeling Exurban Development and Ecosystem Services, Southern Research Station, US Forest Service, Asheville, NC, June 20, 2013.*
- Sugg, J.W., Perry, L.B., Hall, D.K., Riggs, G., and Badurek, C.A., 2013. Satellite Perspectives on the Spatial Patterns of New Snowfall in the Appalachian Mountains. *Eastern Snow Conference, Huntsville, ON, June, 2013.*
- Badurek, C.A., and Salinas, R. 2013. GIS Modeling of Housing Development and Forest Loss in the New River Watershed. *New River Symposium, Radford, VA, May 30-31.*
- Hale, R., Badurek, C.A., and Cockerill, K., 2013. Comparative Analysis of Attitudes towards Water Conservation in Western North Carolina. *New River Symposium, Radford, VA, May 30-31.*
- Hutchins, M., Badurek, C.A., and Cowan, E., 2012. Assessing a GIS Model for Identifying Stream Terraces along the New River. *New River Symposium, Radford, VA, May 30-31.*
- Chapman, A., Todd, C., and Badurek, C.A., 2013. Use of GIS in Developing Microhydroelectric Power for Residential Energy in Western North Carolina. *New River Symposium, Radford, VA, May 30-31.*
- Badurek, C.A., Chapman, A., Woodie, R., Pine, J., and Thaxton, C. 2013. Developing Environmental Data Sharing Partnerships through the New River Analytics Consortium. *New River Symposium, Radford, VA, May 30-31.*
- Badurek, C.A., Hutchins, M., and Wize, B. 2013. GIS-based Decision-making for Sustainable Energy Systems in Southern Appalachia. *AAG Meeting, Los Angeles, CA, April 9-13, 2013.*
- Hutchins, M., Badurek, C.A., and Marland, G. 2013. A Comparative Spatial Analysis of Carbon Dioxide Emissions from Power Plants Inventory Data. *AAG Meeting, Los Angeles, CA, April 9-13, 2013.*
- Hale, R., Badurek, C.A., and Cockerill, K., 2013. Environmental Decision-Maker Perceptions and Water Conservation Strategies in Southern Appalachia. *AAG Meeting, Los Angeles, CA, April 9-13, 2013.*
- French, J., and Badurek, C.A., 2013. GIS Analysis of Impacts of Dams on Upstream Residential Property Values in Eastern Tennessee. *AAG Meeting, Los Angeles, CA, April 9-13, 2013.*
- \*Morris, E., Mahmood, R., and Badurek, C.A. 2013. Synoptic Classification of Urban Heat Island-Initiated Precipitation Events around Three Urban Centers in the Kentucky-Ohio River Valley. *AAG Meeting, Los Angeles, CA, April 9-13, 2013.*
- Badurek, C.A., 2013. IGERT in GIScience Students Honor David Mark Panel Session. Organizer: L. Knigge. *AAG Meeting, Los Angeles, CA, April 9-13, 2013.*
- Badurek, C.A., Philyaw, D., and Salinas, R. 2013. Use of a Deforestation Susceptibility Model for Promoting Sustainable Land Management in Southern Appalachia. *Appalachian Studies Conference, Boone, NC, March 22-24, 2013.*

- Hale, R., Badurek, C.A., and Cockerill, K. 2013. Assessing Water Supply Watershed Designations for Sustainable Water Resource Management in Southern Appalachia. *Appalachian Studies Conference, Boone, NC, March 22-24, 2013.*
- Hutchins, M., and Badurek, C.A. 2013. A Comparative Analysis of Carbon Dioxide Emissions from Power Plants in the Southern Appalachian Region. *Appalachian Studies, Boone, NC, March 22-24, 2013.*
- Wize, B., and Badurek, C.A., and Morris, E. 2013. GIS Modeling for Siting Renewable Energy Parks in the New River Gorge Region, WV. *Appalachian Studies Conf., Boone, NC, March 22-24, 2013.*
- Hale, R., Badurek, C.A., Cockerill, K., 2013. Survey Analysis of Water Resource Manager's Perceptions and Beliefs related to Water Conservation in Western North Carolina. *Annual Meeting of the Water Resources Research Institute of the UNC System, Raleigh, NC, March 20-21, 2013.*
- Chapman, A., and Badurek, C.A., 2013. GIS Analysis for Assessing Potential of Microhydro for Residential Energy in Western North Carolina. *Annual Meeting of the Water Resources Research Institute of the UNC System, Raleigh, NC, March 20-21, 2013.*
- Argchiere, B., and Badurek, C.A., 2013. GIS Modeling for Identifying Cryptic Isolated Wetlands in Northwestern North Carolina. *Annual Meeting of the Water Resources Research Institute of the UNC System, Raleigh, NC, March 20-21, 2013.*
- Badurek, C.A., Hutchins, M., Marland, E., Marland, G., Buckingham, G. 2013. GIS Analysis of Uncertainty Carbon Dioxide Emissions from Power Plants in the Southeastern US. *North Carolina GIS Conference, Raleigh, NC, February 7-8, 2013.*
- \*Morris, E., and Badurek, C.A. 2013. Analyzing the Effects of the Extent of Land Cover on Precipitation in Urban Areas using GIS. *North Carolina GIS Conference, Raleigh, NC, Feb.7-8, 2013.*
- Hutchins, M., Badurek, C.A., Marland, G., Marland, E., 2013. Analysis of Interpolation Technique and Resolution Effects on the Aggregation of Power Plant Carbon Dioxide Emissions at State and County Scales. *North American Carbon Program All Investigators Meeting, February 4-7, 2013.*
- Badurek, C.A., Philyaw, D., and Salinas, R. 2012. A GIS-based Model for Monitoring Impacts of Exurban Development on Forested Areas. *SEDAAG Annual Meeting, Asheville, NC, Nov. 18-20, 2012.*
- Wize, B., and Badurek, C.A., 2012. Cumulative Viewshed Analysis and GIS Modeling to Site Wind Power Parks in the New River Gorge Region, WV. *SEDAAG Meeting, Asheville, NC, Nov. 18-20, 2012.*
- Hale, R., and Badurek, C.A., 2012. Assessing the Impacts of Water Supply Watershed Designation on Rates of Development using GIS. *SEDAAG Annual Meeting, Asheville, NC, Nov. 18-20, 2012.*
- Jenkins, M., and Badurek, C.A., 2012. Analysis of the Effects of Refugee Camps on the Syrian-Turkey Border using High-resolution Satellite Imagery. *SEDAAG Meeting, Asheville, NC, Nov. 18-20, 2012.*
- French, J., and Badurek, C.A., 2012. Analysis of the Effects of Large Dams on Upstream Property Values in the Southeast: Is Bigger Better? *SEDAAG Annual Meeting, Asheville, NC, Nov. 18-20, 2012.*
- \*Morris, E., Mahmood, R., and Badurek, C.A. 2012. The Impacts of Urbanization on Precipitation around Three Urban Centers in the Kentucky-Ohio River Valley. *SEDAAG, Asheville, NC, Nov. 18-20, 2012.*
- \*Riddle, B., van de Gevel, S., and Badurek, C.A., 2012. Forest Stand Dynamics and Land-Use History of the Appalachian State University Nature Preserve. *SEDAAG Meeting, Asheville, NC, Nov. 18-20, 2012.*
- Hale, R., Cockerill, K., Badurek, C.A. 2012. Analysis of Decision-making in Sustainable Water Resource Management in Headwater Regions of Western North Carolina. *Annual Meeting of the Geological Society of America, Charlotte, NC, Nov. 4-7, 2012.*
- Cockerill, K., Hale, R., Badurek, C.A., and Groothuis, P., 2012. No Worries: Decision Maker and Public Attitudes about Water in Western North Carolina. *GSA Meeting, Charlotte, NC, Nov. 4-7, 2012.*
- Hutchins, M., Ballow, W., Cowan, E., and Badurek, C.A., 2012. Assessment of a GIS Model for the Identification of Stream Terraces at the Headwaters of the New River, Blue Ridge Physiographic Province. *Annual Meeting of the Geological Society of America, Charlotte, NC, Nov. 4-7, 2012.*

- Marland, E., Badurek, C.A., and Marland, G. 2012. Analysis of Uncertainty in Carbon Emissions from Power Plant Inventory Databases. *NASA Carbon Monitoring System Annual Meeting, NASA Goddard Space Flight Center, Greenbelt, MD, Nov. 6-7, 2012.*
- Badurek, C.A., Philyaw, D., and Salinas, R. 2012. Modeling Forest Cover Loss from Housing Development in Western North Carolina using ModelBuilder. *NCAUG, Carolina Beach, NC, Oct. 24-26, 2012.*
- Badurek, C.A., Denslow, M., and Philyaw, D. 2012. Predictive Modeling of Exotic Plant Species along the Appalachian Trail with Spatial Statistics in R and GIS. *North Carolina ArcGIS Users Group Meeting, Carolina Beach, NC, Oct. 24-26, 2012.*
- Hutchins, M., and Badurek, C.A. 2012. Uncertainty in Carbon Dioxide Emissions from Power Plants in the Southeastern US. *NC ArcGIS Users Group Meeting, Carolina Beach, NC, Oct. 24-26, 2012.*
- \*Riddle, B., and Badurek, C.A., 2012. Interpolation of Tree Age at the Appalachian State University Nature Preserve. *NC ArcGIS Users Group Meeting, Carolina Beach, NC, Oct. 24-26, 2012.*
- Badurek, C.A., Hale, R., and Cockerill, K., 2012. Survey Analysis of Sustainable Water Resource Planning in the Headwaters of Southern Appalachia. *Applied Geography, Minneapolis, MN, Oct. 10-12, 2012.*
- Philyaw, D., and Badurek, C.A., 2012. Application of a GIS-based Forest Loss Susceptibility Model for Regional Land Use Planning. *Applied Geography Conference, Minneapolis, MN, Oct. 10-12, 2012.*
- Badurek, C.A., 2012. Web GIS and GIS Workforce Needs, GIS and Disasters Roundtable, *Natural Hazards Research and Applications Workshop, Broomfield, CO, July 14-17, 2012.*
- Wize, B., and Badurek, C.A., 2012. Wind Farm Site Selection in the New River Gorge, WV using Rule-based Criteria within GIS. *UCGIS Symposium, Washington, DC, May 30 – June 1, 2012.*
- Denslow, M., Badurek, C.A., Philyaw, P.D., and Reese, C., 2012. Species Distribution Modeling of Exotic Plant Species along the Southern Appalachian Trail. *Association of Southeastern Biologists Annual Meeting, Athens, GA, April 4-7, 2012.*
- Cockerill, K., Hale, R., and Badurek, C.A., 2012. Land Use, Water Resources, and Potential Planning Disconnects. *Annual Meeting of the GSA, Southeastern Section, Asheville, NC, April 1-2, 2012.*
- Hutchins, M., Cowan, E., and Badurek, C.A., 2012. Identification and Geomorphometric Assessment of Stream Terraces along the North and South Fork of the New River, Blue Ridge Physiographic Province. *Annual Meeting of the GSA, Southeastern Section, Asheville, NC, April 1-2, 2012.*
- Hale, R., Badurek, C.A., Cockerill, K., 2012. An Analysis of Water Resource Planning in Headwater Regions of Western North Carolina. *Annual Meeting of the Water Resources Research Institute of the University of North Carolina System, Raleigh, NC, March 27-28, 2012.*
- Badurek, C.A., 2012. GIS Modeling of Building Density to Monitor Sprawl and Promote Sustainable Land Use Planning. *AAG Meeting, New York, NY, February 24-28, 2012.*
- Hale, R., Badurek, C.A., Cockerill, K., 2012. Analysis of Water Demand Forecasting and Resource Planning in the Southern Appalachians. *AAG Meeting, New York, NY, February 24-28, 2012.*
- Wize, B., Badurek, C.A., Abernathy, L., 2012. GIS Modeling for Siting Wind Power Parks near the New River George Region, West Virginia. *AAG Meeting, New York, NY, February 24-28, 2012.*
- Badurek, C.A., 2012. Communicating Across Disciplinary Boundaries: Atmospheric Sciences in Geography Panel Session. Organizer: K. Klockow. *AAG Meeting, New York, NY, Feb. 24-28, 2012.*
- Badurek, C.A., 2011. GIS Analysis of Parcel Density and Value near Public Lands in Western North Carolina. *SEDAAG Meeting, Nov. 21-23, 2011.*
- Badurek, C.A., Todd, C., and Hale, R. 2011. GIS Analysis and Web GIS to Support Microhydro Assessment of Residential Energy in Western North Carolina. *SEDAAG Meeting, Nov. 21-23, 2011.*
- Philyaw, D., and Badurek, C.A., 2011. Mixed-methods Analysis of Media Communication of the Deepwater Horizon Oil Spill Disaster. *SEDAAG Meeting, Nov. 21-23, 2011.*

- Badurek, C.A., 2011. Graduate School 101: For Undergrads, Grads, and Even Professors Panel Session. Organizer: J. Rahn. *SEDAAG Meeting, November 21-23, 2011.*
- Badurek, C.A., 2011. GIS Modeling of Parcel and Housing Density near Public Lands in the Southern Appalachians. *SAMAB Conference, Asheville, NC, November 15-17, 2011.*
- Badurek, C.A., and Frauman, E. 2011. GIS Methods for Mapping Surveyed Perceptions of Recreation Use in Forested Areas of the Southern Appalachians. *Southern Appalachian Man and Biosphere Annual Conference, Asheville, NC, November 15-17, 2011.*
- Griffith, R., Johnson, T., Ray, R., Stringfield, J., Walker, J., Williams, M., Young, L., and Badurek, C.A., 2011. Sustainability Indicator Reporting for Rural Communities in the Southern Appalachians: Case Studies of Marshall and Burnsville, NC. *SAMAB Conference, Asheville, NC, November 15-17, 2011.*
- Badurek, C.A., 2011. Assessment of a GIS Model of Building Density to Monitor Exurban Development and Rural Sprawl. *Applied Geography Conference, Redlands, CA, October 19-22, 2011.*
- Badurek, C.A., and Pine, J.C., 2011. Lessons Learned from Application of GIS and Remote Sensing to the Gulf Oil Spill Disaster in Louisiana. *Applied Geog. Meeting, Redlands, CA, Oct. 19-22, 2011.*
- Waynick, J.S., and Badurek, C.A., 2011. GIS Analysis of Surveyed Perceptions of Safety and Campus Crime to Improve Environmental Design. *Applied Geography, Redlands, CA, Oct. 19-22, 2011.*
- Badurek, C.A., 2011. Beyond the Ivory Tower: Applied Careers for Geographers Panel Session. Organizer: J. Adams. *Applied Geography Conference, Redlands, CA, October 19-22, 2011.*
- Badurek, C.A., and Turner, A., 2011. Using GIS Simulation and 3D Animation to Improve Emergency Planning Exercises. *NCAUG Meeting, Carolina Beach, NC, Sept. 14-16, 2011.*
- Badurek, C.A., Chapman, A., and Turner, A., 2011. Analysis of Housing Density Change along the Blue Ridge Parkway. *NC ArcGIS Users Group Meeting, Carolina Beach, NC, Sept. 14-16, 2011.*
- \*Todd, C., and Badurek, C.A., 2011. Using Web GIS to Provide Information on Microhydro and Wind Power Potential in Western North Carolina. *NCAUG Meeting, Carolina Beach, NC, Sept. 14-16, 2011.*
- \*Hutchins, M., and Badurek, C.A. 2011. Assessment of Campus Infrastructure to Mitigate Flood Risk. *North Carolina ArcGIS Users Group Meeting, Carolina Beach, NC, Sept. 14-16, 2011.*
- Badurek, C.A., 2011. Assessing Landslide and Earthquake Risk Levels in North and South Carolina with GIS. *NC ArcGIS Users Group Western Symposium, Hickory, NC, July 29, 2011.* (Invited)
- Badurek, C.A., Turner, A., Norris, S., and Pine, J.C., 2011. Use of Geovisualization Methods to Enhance Emergency Response and Preparedness Exercises. *Natural Hazards, Broomfield, CO, July 9-12, 2011.*
- Badurek, C.A., 2011. GIS Technical and Workforce Needs, GIS and Disasters Roundtable Session. *Natural Hazards Research and Applications Workshop, Broomfield, CO, July 10-12, 2011.*
- Badurek, C.A., Crepeau, R.C., and Chapman, A., 2011. Assessment of a GIS Model of Exurban Growth along the S. Fork New River, NC. *New River Symposium, Athens, WV, May 19-21, 2011.*
- Badurek, C.A., Hyman, A., Saunders, B., and Todd, C., 2011. Using GIS in Microhydro Assessment for Residential Energy in Ashe County, NC. *New River Symposium, Athens, WV, May 19-21, 2011.*
- Badurek, C.A., Turner, A., Norris, S., Rex, A., and Pine, J.C. 2011. Geovisualization of Campus Flood Hazards for Multi-agency Emergency Response Planning. *Carolinas Floodplain Management Joint Conference, North Charleston, SC, April 13-15, 2011.*
- Badurek, C.A., 2011. GIS Methods to Enhance Spatial and Temporal Reasoning about Exurbanization Processes. *Space-Time GIScience Research Symposium, AAG, Seattle, WA, April 12-16, 2011.*
- Hepler, M., Badurek, C.A., and Anderson, W.A. 2011. Geovisualization and Simulation of Groundwater Contamination in Bias Branch, West Virginia. *AAG Meeting, Seattle, WA, April 12-16, 2011.*
- Pack, J., Mehling, M., and Badurek, C.A., 2011. Environmental Contaminants and Risk Perception: Public Knowledge, Attitudes, and Policy Implications. *AAG Meeting, Seattle, WA, April 12-16, 2011.*

- Talton, F., Turner, A., Badurek, C.A., Dobson, G., and Pine, J. 2011. GIS Modeling and Analysis of Land Use Change near Public Lands in Western North Carolina. *AAG, Seattle, WA, April 12-16, 2011.*
- Hagevik, C., Schroeder, K., and Badurek, C.A., 2011. Mapping Bolivia's Socio-Political Climate: Evaluation of Multivariate Strategies. *AAG Meeting, Seattle, WA, April 12-16, 2011.*
- Badurek, C.A., 2011. Beyond the Ivory Tower: Preparing Geographers for Public Sector Careers Panel Session. Organizer: M. Solem. *AAG Meeting, Seattle, WA, April 12-16, 2011.*
- Badurek, C.A., 2011. Research Directions in Spatial Cognition Panel. *AAG, Seattle, WA, April 12-16, 2011.*
- Badurek, C.A., Pine, J.C., Pack, J.E., and Philyaw, D., 2011. Assessment and Perception of GIS Response in Mitigating Contamination to the Gulf Oil Spill Disaster in Louisiana. *Carolinas Society for Environmental Toxicology and Chemistry Conference, Boone, NC, March 24-26, 2011.*
- Hepler, M., Badurek, C.A., and Babyak, C. 2011. GIS Modeling for Potential Risk of Coal Slurry Contamination in West Virginia. *Carolinas Society for Environmental Toxicology and Chemistry Conference, Boone, NC, March 24-26, 2011.*
- Badurek, C.A., 2011. Economic Development or Rural Gentrification: Measuring Housing Change in the Southern Appalachians. *Appalachian Studies Conference, Richmond, KY, March 11-13, 2011.*
- Saunders, B., and Badurek, C.A., 2011. Assessing Impacts of Rural Gentrification on an Appalachian Community in Western North Carolina. *Appalachian Studies, Richmond, KY, March 11-13, 2011.*
- Badurek, C.A., and Anthony, M.S., 2011. Implementation and Response to Small-scale Wind Power in a Southern Appalachian Community: The Case of Boone, NC. *Appalachian Studies Conference, Richmond, KY, March 11-13, 2011.*
- Turner, J., and Badurek, C.A., 2011. Use of GIS Modeling and High Resolution Imagery for Inventorying Carolina Bays. *North Carolina GIS Conference, Raleigh, NC, February 17-18, 2011.*
- Waynick, J., and Badurek, C.A., 2011. GIS Analysis of Campus Crime, Lighting, and Surveyed Perceptions of Safety. *North Carolina GIS Conference, Raleigh, NC, February 17-18, 2011.*
- \*Chapman, A., and Badurek, C.A., 2011. GIS Modeling to Identify Potential Conservation Easements along the N. and S. Fork New River, NC. *NCGIS Conference, Raleigh, NC, February 17-18, 2011.*
- Badurek, C.A., Potawsky, Y., Turner, A., Dobson, G., and Pine, J. 2011. GIS Analysis of Change in Housing Density near Public Lands in Western North Carolina. *NCGIS, Raleigh, NC, Feb.17-18, 2011.*
- Badurek, C.A., 2011. A GIS Method for Monitoring Rural Sprawl along the S. Fork New River. *Academic Assembly, North Carolina GIS Conference, Raleigh, NC, February 16, 2011.*
- Badurek, C.A., and Frauman, E. 2010. Assessment of GIS Methods for Mapping Perceptions of Forested Landscapes in W. North Carolina. *SEDAAG Meeting, Birmingham, AL, Nov. 21-23, 2010.*
- Badurek, C.A., and Pine, J.C., 2010. Assessment of GIS and Remote Sensing Response to the Gulf Oil Spill Disaster in Louisiana. *SEDAAG Meeting, Birmingham, AL, Nov. 21-23, 2010.*
- Bartlett, M., Erath, K., and Badurek, C.A., 2010. Developing a Conservation Suitability GIS Model for Land Trust Priorities in Eastern Tennessee. *SEDAAG Meeting, Birmingham, AL, Nov. 21-23, 2010.*
- Saunders, B., and Badurek, C.A., 2010. Changing Perceptions of Land in a Gentrifying Southern Appalachian County. *SEDAAG Meeting, Birmingham, AL, Nov. 21-23, 2010.*
- Turner, J., and Badurek, C.A., 2010. Use of GIS Modeling for Classifying and Inventorying Carolina Bays. *SEDAAG Meeting, Birmingham, AL, Nov. 21-23, 2010.*
- Hagevik, C., Schroeder, K., and Badurek, C.A., 2010. Visualizing Regional Divides in Bolivia through Multivariate Mapping. *SEDAAG Meeting, Birmingham, AL, Nov. 21-23, 2010.*
- Badurek, C.A., 2010. Relation of Housing Density Growth to Land Use and Land Cover Change along the S. Fork New River. *Applied Geography Conference, Ft. Worth, TX, Oct. 20-23, 2010.*
- Pack, J., Badurek, C.A., and Tuberty, S., 2010. Land Use Land Cover and Trace Metal Runoff from Poultry Litter Application. *Applied Geography Conference, Ft. Worth, TX, October 20-23, 2010.*

Badurek, C.A., Potawsky, Y., Dobson, G., and Pine, J., 2010. Impacts of Increasing Housing Density around Public Lands in Western North Carolina. *Applied Geography, Ft. Worth, TX, Oct. 20-23, 2010.*

Badurek, C.A., 2010. Methods for Mapping Perceptions of Landscape Values from Forest Recreation Stakeholders. *N. American Cartographic Info Society Meeting, St. Petersburg, FL, Oct 13-15, 2010.*

Hagevik, C., Vaughan, R., and Badurek, C.A. 2010. Integrating Cycling Maps and Web 2.0 for Race Promotion. *N. American Cartographic Info Society Meeting, St. Petersburg, FL, Oct 13-15, 2010.*

Badurek, C.A., 2010. Teaching Cyberinfrastructure in Remote Sensing Courses. *National Conference on Geographic Education Conference, Savannah, GA, September 29-Oct 3, 2010.*

Badurek, C.A., 2010. Engaging Geography Students in Wind Energy Projects. *National Conference on Geographic Education Conference, Savannah, GA, September 29-Oct 3, 2010.*

Badurek, C.A., 2010. Using GIS in Microhydro Assessment for Residential Energy in Western North Carolina. *North Carolina Arc Users Group Meeting, Carolina Beach, NC, September 15-17, 2010.*

\*Hyman, A., Saunders, B., and Badurek, C.A., 2010. Potential Residential Users of Microhydro Power in Ashe County, NC. *North Carolina Arc Users Group Conference, Carolina Beach, NC, Sept. 2010.*

Post, J., and Badurek, C.A. 2010. GIS Modeling and WebGIS for Wind and Microhydro Power in Avery County, NC. *North Carolina ArcGIS Users Group Conference, Carolina Beach, NC, Sept. 2010*

Waynick, J., and Badurek, C.A., 2010. GIS Modeling of Exterior Lighting to Improve Environmental Design and Perceptions of Safety. *NCAUG Group Meeting, Carolina Beach, NC, Sept. 15-17, 2010.*

Badurek, C.A., 2010. Modeling Housing Density along the Blue Ridge Parkway with ModelBuilder. *North Carolina Arc Users Group Meeting, Carolina Beach, NC, September 15-17, 2010.*

\*Vaughan, R., Badurek, C.A., and Hagevik, C. 2010. Integrating Cartographic Design and Web 2.0 to Promote Cycling Tourism. *NC ArcGIS Users Group Meeting, Carolina Beach, NC, Sept. 15-17, 2010.*

Hagevik, C., and Badurek, C.A., 2010. GIS and Temporal Analysis of Climatological Drought in Watauga County, 1940 to 2009. *NCAUG Group Meeting, Carolina Beach, NC, Sept. 15-17, 2010.*

Badurek, C.A., and Pine, J.C., 2010. Coordination of GIS and Remote Sensing Response to the Gulf Oil Spill Disaster in Louisiana. *Natural Hazards Workshop, Broomfield, CO, July 10-12, 2010.*

Schroeder, K., Badurek, C.A., and Hagevik, C. 2010. Analysis of Change in Spatial Patterns of Bolivia's 2009 Presidential Election. *Latin Americanist Geographers, Bogota, Colombia, May 24-26, 2010.*

Badurek, C.A. and Turner, J., 2010. Use of Imagery and GIS Modeling to Develop an Ontology of Depression Wetlands. *NCGIA IGERT in GIScience Conference on Representing Reality: Imagery in the Cognitive, Social and Natural Sciences, Buffalo, NY, May 12-15, 2010.*

Badurek, C.A., 2010. Surviving the Early Years of an Interdisciplinary Academic Career Panel Session. Organizer: C. Bronner. *NCGIA IGERT in GIScience Conference, Representing Reality: Imagery in the Cognitive, Social and Natural Sciences, Buffalo, NY, May 12-15, 2010.*

Turner, J., and Badurek, C.A., 2010. Cartographic Modeling to Improve Identification and Classification of Carolina Bays. *ESRI Southeast Regional User Group (SERUG), Charlotte, NC, April 26-28, 2010.*

Pine, J., and Badurek, C.A., 2010. Proximity of Public Lands and Conservation Areas to the Blue Ridge Parkway. *Blue Ridge Parkway for the 21<sup>st</sup> Century Symposium, Boone, NC, April 22-24, 2010.*

Badurek, C.A., and Crepeau, R.J., 2010. Reconstructing Land Use Histories to Inform Exurban Environmental Planning in Western North Carolina. *AAG Meeting, Washington, DC, April 14-18, 2010.*

Turner, J., and Badurek, C.A., 2010. An Ontological Approach to GIS Classification of Carolina Bays. *AAG Meeting, Washington, DC, April 14-18, 2010.*

Edwards, L., Badurek, C.A., Colby, J.D. 2010. Assessment of RLCM for Creating High Resolution LULC Data for Monitoring Rural-Exurban Change. *AAG Meeting, Washington, DC, April 14-18, 2010.*

Redman, L., and Badurek, C.A., 2010. Spatial Analysis of Demographic Influences on Household Energy Conservation Decision-making in Northwestern North Carolina. *AAG, Washington, DC, April 18, 2010.*

- \*Anthony, M., \*Franko, C., and Badurek, C.A., 2010. University-Industry Partnerships to Implement Small-scale Wind Power in Rural Communities: The Case of Western North Carolina. *AAG Meeting, Washington, DC, April 14-18, 2010.*
- \*Moncelle, S., and Badurek, C.A., 2010. Blue Dixie Rising: Visualizing the Political Geography of Watauga County, North Carolina. *AAG Meeting, Washington, DC, April 14-18, 2010.*
- Renwick, K., and Badurek, C.A., 2010. Assessment of Using Web 2.0 to Teach the Diaspora of African Music in World Regional Geography Courses. *AAG Meeting, Washington, DC, April 14-18, 2010.*
- Pack, J., Tuberty, S., and Badurek, C.A., 2010. Evaluation of Trace Metal Runoff from Chicken Litter Application in the Bugaboo Watershed. *Joint Meeting of the Carolinas and Southeast Society for Environmental Toxicology and Chemistry, Athens, GA, March 25-27, 2010.*
- Badurek, C.A., 2010. Identifying Indicators of Rural Gentrification Impacts on Communities in Appalachian North Carolina. *Biennial Conference on Appalachian Geography and Geography Education, Pipestem, WV, March 5-6, 2010.*
- \*Moncelle, S., and Badurek, C.A., 2010. Using Web GIS to Influence Electoral Patterns in Appalachian North Carolina. *Appalachian Geography and Geography Education, Pipestem, WV, March 5-6, 2010.*
- Badurek, C.A., 2010. Spatial Data Modeling to Support Temporal Querying of Place Histories. *Space-time Modeling and Analysis Workshop, Sponsored by Environmental Systems Research Institute (ESRI), AAG, and University of Redlands, Redlands, CA, February 22-23, 2010.*
- Badurek, C.A., and Crepeau, R.J. 2009. Using GIS and Land Use Histories for Environmental Planning along the South Fork New River, NC. *SEDAAG Meeting, Knoxville, TN, Nov. 21-24, 2009.*
- Saunders, B., Chamberlain, A., and Badurek, C.A., 2009. GIS and Mixed Methods Analysis of Rural Gentrification Impacts on Rural Communities in Watauga County, NC. *SEDAAG Meeting, Knoxville, TN, Nov. 21-24, 2009.*
- Potawsky, Y., and Badurek, C.A., 2009. Comparative Remote Sensing Analysis of Urbanization and Peri-Urban Agriculture of Southeast Asian Cities. *SEDAAG Meeting, Knoxville, TN, Nov. 21-24, 2009.*
- Turner, J., and Badurek, C.A., 2009. GIS Modeling to Improve Identification and Classification of Carolina Bays along the Carolina Coastal Plain. *SEDAAG Meeting, Knoxville, TN, Nov. 21-24, 2009.*
- Badurek, C.A., 2009. Poster Madness Panel Session, Organizer: J. Collins. *SEDAAG Annual Meeting, Knoxville, TN, Nov. 21-24, 2009.*
- Badurek, C.A., Chamberlain, A., and Edwards, L.A., 2009. GIS Modeling of Exurban Growth Processes to Guide Environmental Planning in Watauga County, NC. *Southern Appalachian Man and Biosphere Annual Conference, Asheville, NC, November 17-19, 2009.*
- Potawsky, Y., Badurek, C.A., Dobson, G., and Pine, J., 2009. Sustainability Indicators of Land Use Change near Public Lands in Western North Carolina. *Southern Appalachian Man and Biosphere Annual Conference, Asheville, NC, November 17-19, 2009.*
- Hunter, L.A., and Badurek, C.A., 2009. Use of Geospatial Technology in a Growing Agriculture Industry: Wine Production. *Western Region Cooperative Extension Agents, Mesquite, NV, Nov. 10-12, 2009.*
- Badurek, C.A., and Chamberlain, A., 2009. A GIS Analysis of Housing Density Histories and Rural Land Use Change Processes in Watauga County, NC. *Applied Geography, Baton Rouge, LA, Oct. 28-30, 2009.*
- Badurek, C.A., and Hunter, L.A., 2009. Integration of GIS and Geosensors for Environmental Monitoring and Precision Viticulture in Northwestern North Carolina. *Applied Geography Conference, Baton Rouge, LA, October 28-30, 2009.*
- Badurek, C.A., 2009. Integrating GIS and Digital Video to Teach Urban Geography. *National Council of Geographic Education Conference, San Juan, Puerto Rico, September 23-27, 2009.*
- Badurek, C.A., and Lew, M.S.-A., 2009. Teaching Cultural Diversity through Service Learning. *National Council of Geographic Education Conference, San Juan, Puerto Rico, Sept. 23-27, 2009.*

- Renwick, K., Badurek, C.A., and Redman, L., 2009. Integrating Web 2.0 in Teaching the African Diaspora. *National Council of Geographic Education Conference, San Juan, Puerto Rico, September 23-27, 2009.*
- Badurek, C.A., Chamberlain, A., and Edwards, L.A., 2009. Using Spatial Density Surfaces to Model Exurban Growth Processes along the South Fork New River, NC. *North Carolina ArcGIS Users Group Meeting, Carolina Beach, NC, September 16-18, 2009.*
- Turner, J., and Badurek, C.A., 2009. GIS and Cartographic Modeling to Predict Locations of Carolina Bays along the Carolina Coastal Plain. *NCAUG Meeting, Carolina Beach, NC, Sept. 16-18, 2009.*
- Scott, J.E., Potawsky, Y., and Badurek, C.A., 2009. Enhanced NOTAMs Awareness Visualization (ENAV): Usability Analysis of a 3D GIS Flight Hazards Geovisualization. *North Carolina ArcGIS Users Group Meeting, Carolina Beach, NC, September 16-18, 2009.*
- Chamberlain, A., and Badurek, C.A., 2009. Residential Development Risk Potential, Watauga County, NC. *North Carolina ArcGIS Users Group Meeting, Carolina Beach, NC, Sept. 16-18, 2009.*
- Waynick, J., Badurek, C.A., and Rex, A., 2009. Environmental Design and Perceptions of Campus Public Safety. *North Carolina ArcGIS Users Group Meeting, Carolina Beach, NC, Sept. 16-18, 2009.*
- Potawsky, Y., Badurek, C.A., and Dobson, G., 2009. Sustainable Housing Growth Assessment, Buncombe County, NC. *NCAUG Meeting, Carolina Beach, NC, September 16-18, 2009.*
- Badurek, C.A., Chamberlain, A., Edwards, L.A., and Carroll, M., 2009. Using GIS to Reconstruct Housing and Land Use Histories along the South Fork New River, NC. *New River Symposium, May 22, 2009.*
- Redman, L., and Badurek, C.A., 2009. Gender Influence on Weatherization and Energy Conservation Decision-making in Watauga County, NC. *Southeastern Women's Studies Association Conference, Boone, NC, April 2-4, 2009.*
- Badurek, C.A., and Chamberlain, A. 2009. Measuring Rural-Exurban Change in Western North Carolina using Housing Density Surface Analysis. *AAG Meeting, Las Vegas, NV, March 22-27, 2009.*
- Chamberlain, A., and Badurek, C.A. 2009. Identification and Analysis of Multiscale Indicators of Rural Gentrification in Western North Carolina. *AAG Meeting, Las Vegas, NV, March 22-27, 2009.*
- Gentry, J., and Badurek, C.A., 2009. A Spatial Analysis of Socioeconomic Indicators and Refugee Camp Environmental Impacts in Western Tanzania. *AAG Meeting, Las Vegas, NV, March 22-27, 2009.*
- Colby, J., Badurek, C.A., and Edwards, L.A., 2009. Application of NASA EOS Data to Research and Education in Mountain-focused Geographic Information Science. *AAG, Las Vegas, NV, March, 2009.*
- Badurek, C.A., Chamberlain, A., and Frauman, E., 2009. Evaluation of GIS Methods for Determining Recreation Stakeholder Perceptions of the Wilson Creek River Corridor in Western North Carolina. *Annual Recreation Research Conference, Athens, GA, February 22-24, 2009.*
- Chamberlain, A., and Badurek, C.A., 2009. Analysis of Housing Development Patterns in Watauga County, NC Derived from Density Surfaces of Tax Parcel Data. *NCGIS, Raleigh, NC, Feb. 19-20, 2009.*
- \*Aull, R., and Badurek, C.A., 2009. A Comparison of Image Enhancement and Classification Techniques to Aid Feature Detection in Arid Environments. *NCGIS Conference, Raleigh, NC, February 19-20, 2009.*
- O'Conner, J., Koslen, Y., Badurek, C.A., Gilliam, A., Byer, M. 2009. Open Source GIS Analysis for Marketing Biofuels in Asheville, NC. *NCGIS Conference, Raleigh, NC, February 19-20, 2009.*
- Gandy, W., Badurek, C.A., Mayfield, M., and Anderson, W., 2009. GIS Analysis of Geomorphology to Improve Groundwater Modeling and Well Yield Estimates in Watauga County, NC. *North Carolina GIS Conference, Raleigh, NC, February 19-20, 2009.*
- Waynick, J., and Badurek, C.A., 2009. A Comparison of GIS Methods for Visualizing Hot Spots of Campus Crime and Surveyed Perceptions of Safety. *NCGIS Conf., Raleigh, NC, Feb.19-20, 2009*
- Edwards, L.A., Colby, J., and Badurek, C.A., 2009. An Efficient Method for Creating and Updating High Resolution Land Use Land Cover Data Sets. *NCGIS Conference, Raleigh, NC, Feb. 19-20, 2009*



- Badurek, C.A., and Chamberlain, A., 2008. Use of Land Parcel Data for GIS Analysis of Rural Gentrification Processes in Watauga County, North Carolina. *SEDAAG Meeting, Greensboro, NC, Nov. 22-25, 2008.*
- Sloop, J., and Badurek, C.A., 2008. Spatiotemporal Character of Rural Journey to Crime in Yadkinville, NC. *SEDAAG Meeting, Greensboro, NC, Nov. 22-25, 2008.*
- Gentry, J., and Badurek, C.A., 2008. Multi-method Geographic Analysis of Refugee Impacts in Western Tanzania. *SEDAAG Meeting, Greensboro, NC, Nov. 22-25, 2008.*
- Hunter, L., and Badurek, C.A., 2008. Spatial Interpolation of Geosensor Data to Support Precision Viticulture. *SEDAAG Meeting, Greensboro, NC, Nov. 22-25, 2008.*
- Badurek, C.A., 2008. A Comparison of GIS Methods for Visualizing Criminal History of Place. *Applied Geography Conference, Wilmington, DE, October 15-17, 2008.*
- \*Storniolo, R., Anderson, W., and Badurek, C.A., 2008. Controls on Well Yields in the Fractured Bedrock Aquifers of Northwestern North Carolina. *GSA Conference, Houston, TX, October 5-9, 2008.*
- \*Waynick, J., and Badurek, C.A., 2008. A GIS Analysis of Campus Crime Density and Surveyed Perceptions of Safety. *NC ArcGIS Users Group Meeting, Carolina Beach, NC, Sept. 17-19, 2008.*
- \*Carroll, M., and Badurek, C.A., 2008. GIS Comparison of Floodplain Designation on Land Parcel Tax Value in Watauga County, NC. *NCAUG Meeting, Carolina Beach, NC, September 17-19, 2008.*
- Badurek, C.A., 2008. A GIS Approach to Monitoring Change in Urban Crime in São Paulo, Brazil. *International Geographical Union Meeting, Tunis, Tunisia, August 15-19, 2008.*
- \*Sugg, J.W., and Badurek, C.A., 2008. A GIScience Investigation of Mass Balance Change of the Franz Josef Glacier, New Zealand. *International Geographical Union, Tunis, Tunisia, August 15-19, 2008.*
- Hunter, L.A., and Badurek, C.A., 2008. A GIS Database Schema for Small-scale Precision Viticulture using Geosensors. *International Conference on Precision Agriculture, Denver, CO, July 20-23, 2008.*
- Badurek, C.A., 2008. GIS Educational Frameworks to Support Spatial Data Infrastructure Development. *AAG Meeting, Boston, MA, April 15-19, 2008.*
- Badurek, C.A., 2008. A Comparative Evaluation of Multi-method Approaches to Reducing Gun Violence. *NC Criminal Justice Association Meeting, Boone, NC, April 4-5, 2008*
- Sloop, J., and Badurek, C.A., 2008. Estimating Journey to Crime in Rural North Carolina Towns: the Case of Yadkinville, NC. *NC Criminal Justice Association Meeting, Boone, NC, April 4-5, 2008*
- Badurek, C.A., 2007. Identifying Barriers to GIS-based Land Management in Guatemala. *SEDAAG Meeting, Charleston, SC, Nov. 18-20, 2007.*
- Badurek, C.A., 2007. GIS Education, Cartographic Practice, and Developing Spatial Data Infrastructures: the Case of Guatemala. *Geography in the Americas Conference, La Serena, Chile, May 23-26, 2007.*
- \*Gentry, D.J., and Badurek, C.A., 2007. GIS Assessment of Hazards and Disaster Mitigation of Towns near Cotopaxi Volcano, Ecuador. *Geography in the Americas Conference, Collaboration on Research and Education, La Serena, Chile, May 23-26, 2007.* (presented by Badurek)
- Badurek, C.A., Colby, J.D., and Hunter, L.A., 2007. Towards Expert Systems to Support Viticulture in Western North Carolina. *AAG Meeting, San Francisco, CA, April 17-21, 2007.*
- \*Walker, J., Anderson, W., Badurek, C., Chapman, M.J., and Huffman, B., 2007. Correlation between Lineaments, Outcrop Fractures, and Borehole Fractures in the Fractured Amphibolites of Northwestern North Carolina. *GSA Southeastern Meeting, Savannah, GA, March 29-30, 2007.*
- Badurek, C.A., 2006. Visualization Using Change Similarity Operators in GIS. *AAG Meeting, Chicago, IL, March 7-11, 2006.*
- Badurek, C.A., Beal, P., and St. Jean, P.K.B., 2005. Comparing Areas of Risk of Recidivism for Parolees and Probationers Identified as being Potential Contributors to Gun Violence. *NIJ International Crime Mapping Research Conference, Savannah, GA, September 7-10, 2005.*

- Badurek, C.A., 2005. Indigenous Peoples: GIS Data Management and Use presented in GIS and Indigenous People Panel Session. Session organizer: D. Mark. *AAG, Denver, CO, March 14-19, 2005.*
- Badurek, C.A., 2004. Visualizing the Consistency of Spatiotemporal Similarity Queries in GIS. *AAG Middle States Division Meeting, Villanova University, PA, October 29-30, 2004.*
- Badurek, C.A., Knigge, L., Miller, W., and Morgan, L.J., 2004. Evaluating the State of GIS Education in Guatemala. *AAG Middle States Meeting, Villanova University, Villanova, PA, October 29-30, 2004.*
- Badurek, C.A., and Chacon, M., 2004. Challenges to Registering Property with a National Land Information System in Guatemala. *Conference of Latin Americanist Geographers, Antigua, Guatemala, May 19-22, 2004.*
- St. Jean, P.K.B, and Badurek, C.A., 2004. Investigating the Criminogenic Life-course of Place: Space-Time Analysis of Robberies using Multi-method GIS. *Annual NIJ International Crime Mapping Research Conference, Boston, MA, March 31-April 4, 2004.*
- Badurek, C.A., 2004 Spatial Change Similarity: Visualizing the Criminal History of Place. *AAG Meeting, Philadelphia, PA, March 14-19, 2004.*
- Badurek, C.A., 2003. Casinos, Crime, and Social Decay: Fact or Fiction presented in Geographic Information for Regional Development: The Case of Land and Health Session. *Northeast Regional Science Association Conference, Binghamton University, SUNY, November 6-8, 2003.*
- St. Jean, P.K.B, and Badurek, C.A., 2003. Space-time Analysis of Crime in São Paulo. *12<sup>th</sup> World Congress of Criminology, Rio de Janeiro, Brazil, August 10-15, 2003.*
- Badurek, C.A., and Brunskill, J.C., 2003. Using GIS with a Course Management System for a Case Study Approach to Teaching Map Use and Analysis. *SUNY CIT, Conference on Instructional Technologies, Potsdam, NY, May 28-30, 2003.* (presented by Brunskill)
- Badurek, C.A., 2003 Visualizing Aspects of Crime with Geographic Information Technologies. *Visual Communication and Social Change: Rhetorics and Technologies, RIT, Rochester, NY, April 3-6, 2003.*
- Badurek, C.A., and Flewelling, D.M., 2003. A Method for Deriving Criminal Activity Spaces from Police Data Using GIS. *AAG Meeting, New Orleans, LA, March 5-8, 2003.*
- Mark, D., Raybold-Yakich, V., and Badurek, C.A., 2002. Multidisciplinary Doctoral Education in GI Science: Overview and Progress Report. *ESRI GIS Educ. User Conference, 2002, San Diego, CA.*
- Badurek, C.A., 2002 Spatialized User Interfaces for Geospatial Image Collections. *AAG Meeting, Los Angeles, CA, March 19-23, 2002.*
- Badurek, C.A., 2001. Geographic Information Science and Technologies: Impacts on Information Access and Exchange for the Geosciences. *GSA Annual Meeting, Boston, MA, November 5-8, 2001.*
- Badurek, C.A., 2001. Research Based Graduate Education Panel Session. Organizer: D. Mark. *University Consortium on GIScience (UCGIS) Summer Assembly, Buffalo, NY, July 2001.*
- Badurek, C.A., 2001. Spatialization for Accessing Geospatial Images. *AAG Meeting, New York, NY, February 27-March 3, 2001.*
- Fabrikant, S.I., Jorgensen, C., and Badurek, C.A., 2000. Creating an Immersive Information Space Based on a Spatial Metaphor. *Annual Meeting of the American Society for Information Science and Technology, Chicago, IL, November, 2000.* (presented by Badurek)
- Badurek, C.A., and Flewelling, D.M., 2000. A Model Spatial Information System for Structures Based on Cognitive Image Schemata. *GIScience 2000, First International Conference on Geographic Information Science, Savannah, GA, October 28-31, 2000.*

#### **Invited Colloquia, Lectures, and Panels [94]**

- Badurek, C.A. 2021. Annual Report from the New York State GIS Association. *New York State Geospatial Advisory Council Meeting, New York State Office of Information Technology, December 14, 2021.*

- Badurek, C.A. 2021. GIS Careers Panel Discussion. *GIS Day Events, Department of Geography and Planning, University at Albany, State University of New York, November 17, 2021.*
- Badurek, C.A. 2020. Applying Lean Startup Methodology to GeoTech Entrepreneurship. *Computers & Society Course, SUNY Cortland, Cortland, NY, November 2, 2021.*
- Badurek, C.A. 2021. Digital Humanities Panel Discussion. *Center for Professional Development, State University of New York, November 1, 2021.*
- \*Bonfiglio, B, and Badurek, C.A. 2021. Assessing College Campus Carbon Sequestration Estimates using i-Tree Canopy. *Cortland Alumni & Undergraduate Science Symposium, Cortland, NY, October 23, 2021.*
- \*Bonfiglio, B., and Badurek, C.A. 2021. Analysis of Impact of COVID-19 on Nitrogen Dioxide and Sulfur Dioxide Concentrations Across the Northeastern United States, 2019-2021. *SUNY Cortland Alumni & Undergraduate Science Symposium, Cortland, NY, October 22, 2021.*
- Badurek, C.A. 2021. GIS and Autonomous Vehicles: UAS Case Examples. *Computers & Society Course, SUNY Cortland, Cortland, NY, October 12, 2021.*
- Badurek, C.A. 2021. Collaborative Mapping using an Interdisciplinary Deep Map. *Rochester: Mapping Place, Space, and Identity NEH Workshop, St. John Fisher College, August 11, 2021.*
- Badurek, C.A. 2021. Using a Deep Map with Communities and Civic Engagement. *Rochester: Mapping Place, Space, and Identity NEH Workshop, St. John Fisher College, August 4, 2021.*
- Badurek, C.A. 2021. Using a Deep Map in the Core Curriculum. *Rochester: Mapping Place, Space, and Identity NEH Workshop, St. John Fisher College, July 28, 2021.*
- Badurek, C.A. 2021. Promoting Digital and Spatial Literacy among Undergraduates. *Rochester: Mapping Place, Space, and Identity NEH Workshop, St. John Fisher College, July 21, 2021.*
- Badurek, C.A. 2021. Geocoding Multimedia Content in Historical Maps. *Rochester: Mapping Place, Space, and Identity NEH Workshop, St. John Fisher College, July 14, 2021.*
- Badurek, C.A. 2021. What is a Deep Map and How Do You Create One? *Rochester: Mapping Place, Space, and Identity NEH Workshop, St. John Fisher College, July 7, 2021.*
- \*Bonfiglio, B., and Badurek, C.A. 2021. Analysis of Impact of COVID-19 on Nitrogen Dioxide and Sulfur Dioxide Concentrations Across the Northeastern United States, 2019-2021. *Professional Development Speaker Series, New York State GIS Association, May 26, 2021.*
- Badurek, C.A., and Ochs, J. 2021. Teaching Social and Economic Impacts of Drone Technologies through a Multidisciplinary Pitch Contest. *President's Office Sandwich Seminar, SUNY Cortland, April 29, 2021.*
- Badurek, C.A. 2021. Update on GISP Certification for New York GIS Professionals. *Professional Development Speaker Series, New York State GIS Association, April 14, 2021.*
- Badurek, C.A. 2020. Applying Lean Startup Methodology to Drone Entrepreneurship. *Computers & Society Course, SUNY Cortland, Cortland, NY, November 3 & 5, 2020.*
- Badurek, C.A. 2020. How Will UAS Change Package Delivery Services? *Computers & Society Course, SUNY Cortland, Cortland, NY, October 20 & 22, 2020.*
- Badurek, C.A. 2020. Developing Technical and General Skills in Demand by GIS Employers. *Senior Seminar in Geography Course, SUNY Cortland, Cortland, NY, February 3, 2020.*
- Badurek, C.A. 2020. Networking and Career Development using LinkedIn. *Senior Seminar in Geography Course, SUNY Cortland, Cortland, NY, January 29, 2020.*
- Badurek, C.A. 2019. Our Climate Debt: Climate Change Keywords Panel Discussion. *Cultural and Intellectual Climate Events, SUNY Cortland, Cortland, NY, November, 12, 2019.*
- Badurek, C.A. 2019. Integrating UAS Drone Training and GIS into STEM Education. *SUNY Cortland Alumni & Undergraduate Science Symposium, Cortland, NY, October 12, 2019.*
- Badurek, C.A. 2019. Integrating GIS Technology with Tree Biology for Urban Tree Survey and Analysis. *Tree Biology Course, SUNY Cortland, Cortland, NY, August 29, 2019.*

- Badurek, C.A. 2019. US National Airspace System and the Future of Drone Delivery Services. *GIS and Transportation (GIS-T) Course, SUNY Cortland, Cortland, NY, August 28, 2019.*
- Badurek, C.A. 2019. Use of GIS in Emergency Evacuation Route Planning and Flood Mitigation Plans. *GIS and Transportation (GIS-T) Course, SUNY Cortland, Cortland, NY, August 26, 2019.*
- Badurek, C.A. 2019. Integrating GIS Modeling and Housing Economics to Study Coupled Human and Natural Systems in Mountain Settings. *Political Economy of the Adirondacks Course, SUNY Cortland, Raquette Lake, NY, June 18, 2019.*
- Badurek, C.A. 2019. CALP: An Applied Learning Community of Practice Panel. *University Sandwich Seminar, SUNY Cortland, Cortland, NY, April 24, 2019.*
- Badurek, C.A. 2018. Geotagging Photos using Smart Phones and Web GIS. *First Year Seminar: Our Future World, Department of Geography, SUNY Cortland, Cortland, NY, October 2018.*
- Badurek, C.A. 2018. Community Applied Learning Practitioner Launch Panel. *Institute for Civic Engagement Workshop, SUNY Cortland, Cortland, NY, September 2018.*
- Badurek, C.A. 2017. Predictive GIS Modeling of Deforestation and Invasive Species. *Department of Geography, SUNY Cortland, Cortland, NY, February 2017.*
- Badurek, C.A. 2017. Research Data Management Issues and Practice. *Responsible Conduct of Research Course, Graduate College, Drexel University, Philadelphia, PA, February 2017.*
- Badurek, C.A. 2017. Environmental Data Resources and Methods. *Social-Environmental Systems Course, Honors College, Drexel University, Philadelphia, PA, February 2017.*
- Badurek, C.A. 2017. Using the Data Visualization Zone Learning Space for Visualization Projects. *Information Visualization Course, Media Arts & Design, Drexel University, Philadelphia, PA, Jan.2017.*
- Badurek, C.A. 2016. The Physics of Remote Sensing Data Collection. *IceCube Summer Research Program, Department of Physics, Drexel University, Philadelphia, PA, August 2016.*
- Badurek, C.A., 2016. Data Management Plans and Research Compliance. *Research Data Forum II, Drexel University, Philadelphia, PA, January 20, 2016.*
- Badurek, C.A. 2016. Teaching Spatial Thinking with Web GIS Applications. *Collaboratory of Educational Technology, Drexel University, Philadelphia, PA, March 24, 2016.*
- Badurek, C.A. 2016. Using Web GIS Applications for Marketing and Business Analysis. *Design and Merchandising Research Seminar, Drexel University, Philadelphia, PA, June 2016.*
- Badurek, C.A. 2015. Fostering Interdisciplinary Research Collaborations in STEM Disciplines. *University Libraries, Pennsylvania State University, State College, PA, November 20, 2015.*
- Nitecki, D., and Badurek, C.A., 2015. The Spark of Research Data Management. *Spark Forum, Drexel University, Philadelphia, PA, November 19, 2015.*
- Badurek, C.A., 2015. Use of Web GIS Resources in Post-Sandy Resilience Planning. *GIS Day Symposium, Drexel University, Philadelphia, PA, November 18, 2015.*
- Badurek, C.A., 2015. Using the DMPTool for Grant Proposals. *Research Data Forum I, Drexel University, Philadelphia, PA, October 15, 2015.*
- Badurek, C.A., 2015. Evaluating Environmental Research Data Resources. *First Year Seminar: Department of Biodiversity, Earth, and Environmental Sciences, Drexel University, Philadelphia, PA, Sept 2015.*
- Badurek, C.A., 2015. Using Web GIS Applications for Marketing and Business Analysis. *Design and Merchandising Seminar, Media Arts & Design, Drexel University, Philadelphia, PA, July 2015.*
- Badurek, C.A., 2015. Research Data Services and Science Research Workflows. *Spark Forum, Drexel University, Philadelphia, PA, May 21, 2015.*
- Badurek, C.A. 2015. STEM, STEAM, and Information Visualization Literacy. *Spark Forum, Drexel University, Philadelphia, PA, March 19, 2015.*

Badurek, C.A. 2014. Fostering Interdisciplinary Research Collaborations in STEM Disciplines. *University Libraries, Drexel University, Philadelphia, PA, October 31, 2014.*

Badurek, C.A., 2014. Reaching Resilience: Results from the NJ Resiliency Network Survey. *Reaching Resilience Workshop, Atlantic City, NJ, Oct. 2014.*

Badurek, C.A., 2014. Using Web GIS for Visualization of State Resiliency Planning Projects. *NJ Resiliency Network Advisory Board Meeting, Rutgers University, New Brunswick, NJ, Oct. 5, 2014.*

Badurek, C.A., 2014. The Other Wes Moore Book Discussion. *Multicultural New York City Course, The College of New Jersey, Ewing, NJ, August 2014.*

Badurek, C.A., 2011. Using GIS for Visualization of Rural Sprawl in the High Country, NC. *Faculty in Residence Program, ASU, Boone, NC, November 2013.*

Hale, R., Badurek, C.A., and Cockerill, K., 2013. Decision-make Perceptions Affect Water Management in Western North Carolina. *Graduate Education Day, North Carolina Conference of Graduate Schools, North Carolina State Legislature, Raleigh, NC, May 22, 2013.*

Badurek, C.A., Marland, G., Marland, E., and Hutchins, M. 2013. Spatial Interpolation, Resolution, and Uncertainty Measure Effects on Power Plant Carbon Dioxide Emissions at Regional and State Scales. *Earth Systems Seminar, NASA Jet Propulsion Lab, Pasadena, CA, April 12, 2013.*

Badurek, C.A., 2012. Reconstructing Residential Histories with GIS and Land Parcel Data. *Historic Documentation, Department of History, ASU, Spring 2012, graduate.*

Badurek, C.A., 2011. Creating Accurate and Effective Flood Visualizations. *Emergency Plans and Operations Regional Flood Exercise, ASU, Boone, NC, Spring 2011.*

Badurek, C.A., 2011. Use of GIS for Increasing Public Participation in Environmental Decision Making: Lessons from the Gulf Coast and Western North Carolina. *Environmental Policy Program Speaker Series, Department of Government and Justice Studies, ASU, Boone, NC, Spring 2011.*

Badurek, C.A., 2011. Collateral Effects of Coal Production and the Myth of Clean Coal Panel with Jack Spadaro. *Department of Geography and Planning, ASU, Boone, NC, Spring 2011.*

Badurek, C.A., Pine, J.C., and Brown, R.N., 2010. From Katrina to BP: Understanding the Social and Cultural Resilience of Louisiana's Gulf Coast. *Interdisciplinary Humanities, ASU, Boone, NC, Fall 2010.*

Badurek, C.A., 2010. Using GIS in Computation and 3D Geovisualization Research. *GIS Day Event, Computation and Visualization Lab, Department of Geography and Planning, ASU, Boone, NC, 2010.*

Badurek, C.A., 2010. Use of GIS and Remote Sensing Response in Response to Environmental Disasters. *Department of Geography and Earth Sciences, UNC-Charlotte, Fall 2010.*

Badurek, C.A., 2010. GIS Analysis in Anthropology Research. *Research Methods, Department of Anthropology, Appalachian State University, Fall 2010.*

Badurek, C.A., 2010. Renewable Energy, Environmental Impacts of Coal, and Mountain Top Removal Panel with Larry Gibson. *Department of Geography and Planning, ASU, Boone, NC, Spring 2010.*

Badurek, C.A., 2010. Integrating Spatiotemporal Dynamics and Cultural Geography Analysis to Improve Regional Conflict Mitigation. *Department of Geography, UNC-Greensboro, Greensboro, NC, 2010.*

Badurek, C.A., 2009. Integrating Spatiotemporal Dynamics into Cultural Geography Analysis to Improve Urban and Regional Conflict Mitigation. *Geographic Analysis Division, National Geospatial-Intelligence Agency (NGA), US Marine Corps Intelligence Activity, Quantico, VA, Summer 2009.*

Badurek, C.A., 2009. The Cities and Regions of Brazil. *Brazil Immersion Week, Global Studies and Interdisciplinary Humanities Program, Appalachian State University, Boone, NC, Spring 2009.*

Badurek, C.A., 2009. GIS Analysis Methods to Support Renewable Energy Modeling. *Advanced Computer Modeling for Renewable Energy Systems, Department of Technology, ASU, Spring 2009, graduate.*

Badurek, C.A., 2009. GIS and TEK: Making Traditional Environmental Knowledge Digital. *Know Your Place: Ideas about Science, the Environment, and Culture Course, ASU, Spring 2009.*

- Badurek, C.A., 2008. GIS Internships and Careers. *Geography and Planning Senior Seminar Course*, Department of Geography and Planning, Appalachian State University, Fall 2008.
- Badurek, C.A., 2008. GIS Analysis to Support Routing in Biofuel Production and Bioheat Marketing in Asheville, NC. *Blue Ridge Biofuels*, Asheville, NC, Summer 2008.
- Badurek, C.A., 2008. Geographic Computing Approaches to Analyzing Spatiotemporal Patterns. *Sigma Xi Meeting*, Appalachian State University, Boone, NC, Spring 2008.
- Badurek, C.A., 2007. The Geographical Matrix Reloaded: Computing Research in Geography. *Department of Geography and Planning*, Appalachian State University, Boone, NC, Fall 2007.
- Colby, J., and Badurek, C.A., 2007. Application of NASA EOS Data to Research and Education in Mountain-focused Geographic Information Science. *NASA NEHEA GeoBrain Annual Project Meeting*, LAITS, George Mason University, Greenbelt, MD, Spring 2007. (presented by Badurek)
- Badurek, C.A., 2007. Contemporary Native American Issues. *Learner Diversity*, Department of Learning and Instruction, College of Education, Appalachian State University, Spring 2007.
- Badurek, C.A., 2006. Geography of Native America. *Learner Diversity*, Department of Learning and Instruction, College of Education, Appalachian State University, Fall 2006.
- Badurek, C.A., 2006. Integrating GIS into Teaching across the Undergraduate Curriculum. *Under the Cupola: Discovering Campus-wide Instructional Innovations Series*, ASU, Boone, NC, Fall 2006.
- Badurek, C.A., 2006. Research Themes in Spatiotemporal GIS. *Research Themes and Methods in Geography Course*, Department of Geography, ASU, Fall 2006, graduate.
- Badurek, C.A., 2006. Geographic Information Science and Systems: Computer Science Perspectives. *NSF Computer Science, Engineering, and Mathematics (CSEMS) Seminar*, Department of Computer Science and Department of Mathematics, Appalachian State University, Boone, NC, Spring 2006.
- Badurek, C.A., 2006. Using GIS and Multimethod Analysis to Inform Gun Violence Prevention. *Transforming Communities Research Lab*, Winston-Salem State University, NC, Spring 2006.
- Badurek, C.A., 2005. Exploring Urban Crime Patterns with GIS. *Department of Geography and Planning*, Appalachian State University, Boone, NC, Spring 2005.
- Badurek, C.A., 2004. Constraints to the Guatemalan National Land Information System. *IGERT in Geographic Information Science Colloquium*, University at Buffalo, NY, Fall 2004.
- Badurek, C.A., 2004. Challenges to Designing a Multipurpose Land Information System for Guatemala. *International Masters in GIS Program*, University of Redlands, CA, Fall 2004.
- Badurek, C.A., 2004. Formal Theories in Databases: Logic and Propositional Calculus. *Database Design for GIS*, Department of Geography, University at Buffalo, SUNY, Fall 2004.
- Badurek, C.A., 2004. Lessons from the Classroom Panel Session. *Fall Conference for Teaching Assistants*, Center for Teaching and Learning Resources, Univ. at Buffalo, NY, August 23-26, 2004.
- Badurek, C.A., 2003. Lessons from the Classroom Panel Session. *Fall Conference for Teaching Assistants*, Center for Teaching and Learning Resources, Univ. at Buffalo, NY, August 18-21, 2003.
- Badurek, C.A., 2003. GIS for Geographic Information Visualization. *Maps and Mapping*, Department of Geography, University at Buffalo, SUNY, Spring 2003.
- Badurek, C.A., 2002. GIS Applications for Public Safety and Community Policing. *IGERT in GIScience / Department of Geography Joint Colloquium*, Univ. at Buffalo, NY, Fall 2002.
- Badurek, C.A., and Knigge, L., 2002. Supporting a National Cadastre for Guatemala: Peace through Land Distribution. *IGERT in GIScience Colloquium with Jack Dangermond*, Environmental Systems Research Institute (ESRI), hosted by NCGIA, University at Buffalo, NY, Spring 2002.
- Badurek, C.A., 2002. Technical Diagramming Tools for Systems Analysis. *Information Architecture*, School of Informatics, University at Buffalo, Spring 2002, graduate

Badurek, C.A., 2001. Usability, Human-Computer Interaction, and Information Science. *Intro to Information Science and Services*, School of Informatics, Univ. at Buffalo, Fall 2001, graduate.

Badurek, C.A., and Knigge, L., 2001. Supporting a National Cadastre for Guatemala. *IGERT in GIScience NSF Advisory Board Meeting, hosted by NCGIA*, University at Buffalo, NY, Fall 2001.

Flewelling, D.M., Badurek, C.A., and Knigge, L., 2001. A Spatial Database to Support a National Cadastre for Guatemala. *IGERT in GIScience Colloquium*, University at Buffalo, NY, Fall 2001.

Flewelling, D., Knigge, L., and Badurek, C.A., 2001. Needs Assessment for a Guatemalan Land Information System. *UTJ-Protierra*, Guatemala City, Guatemala, Summer 2001.

Badurek, C.A., and Flewelling, D.M., 2000. A Model Spatial Information System for Structures Based on Cognitive Image Schemata. *IGERT in GIScience Colloquium*, University at Buffalo, SUNY, Fall 2000.

Badurek, C.A., 1999. GIS Applications for Crime Analysis and Prevention. *Regional Community Policing Center, University Community Initiative*, University at Buffalo, SUNY, Fall 1999.

Badurek, C.A., 1999. EQNET: The Earthquake Information Providers Network. *Multidisciplinary Center for Earthquake Engineering Research (MCEER) NSF Advisory Board Meeting*, University at Buffalo, 1999.

### **PART 3. RESEARCH FUNDING & SUPPORT [\$2,112,488]**

#### **Grants, Contracts, Fellowships**

Research Grant, \$100,000. *Rochester: Mapping Place, Space, and Identity*. PI: Griffin, O. Humanities Connections Implementation Grants, National Endowment for the Humanities (NEH), July 2021 – June 2024.

Research Grant, \$2,728. *Comparison of GIS-Based Carbon Sequestration Estimation Methods at Varying Scales in Cortland County, NY*. Faculty Research Program, Research & Sponsored Programs Office, SUNY Cortland, funded July 2021-June 2022.

Research Grant, \$5,000. *Comparison of GIS-Based Carbon Sequestration Estimation Methods at Varying Scales in Cortland County, New York*. PI: Badurek, C.A. Undergraduate Summer Research Fellowship, Undergraduate Research Council, SUNY Cortland, funded June 2021 – August 2021.

Research Award, \$500. *At Work in the Wild: Developing Virtual Field Trips in the Adirondacks*. Love of Learning Award, Phi Kappa Phi Honor Society, August 2020.

Faculty Award, \$3,000. *Development of UAS Startup – Seneca Drone Analytics*. Support from Upstate NY I-Corps Node, Binghamton I-Corps Site, National Science Foundation, June 2020.

Faculty Contract, \$1,000. *Assessment of NSF Common Problems Pedagogy Project*. Support from *Common Problems Pedagogy Project*, PI: Mattingly, B., National Science Foundation, June 2020.

Faculty Grant, \$1,500. *Adirondack Common Problem Pedagogy Project at Raquette Lake, NY*. PIs: Moranda, S., Wilson, B., and Badurek, C.A. Center for Environmental and Outdoor Education Program, SUNY Cortland, January 2020.

Faculty Grant, \$2,500. *Communicating the Value of Urban Forests in the Village of Homer using Web GIS Tools*. PI: Badurek, C.A. Co-PIs: Broyles, S., McCabe, H. Cortland Applied Learning Practitioner Program (CALP), Institute for Civic Engagement, SUNY Cortland, October 2019.

Faculty Grant, \$1,000. *Environmental Remote Sensing and Tree Biology*. Support from *Common Problems Pedagogy Project*, PI: Mattingly, B., National Science Foundation, September 2019.

Faculty Grant, \$5,000. *Developing Geospatial Intelligence Career Preparation for GIS Undergraduate Students*. Armed Forces Communications and Electronics Association (AFCEA), Quantico Chapter. PI: Badurek, C.A., August 2019 – August 2020.

Research Grant, \$54,200 *Open Geospatial Lab (OGL) and Remote Workforce Opportunities across Rural New York State*. SUNY Innovative Instruction Technology Grant (IITG), State University of New York, PI: Little, J., Co-PI: Badurek, C.A., July 2019-July 2020.

Faculty Grant, \$3,500. *Political Economy and Environmental Geography of the Adirondacks*. Support from *Common Problems Pedagogy Project*, PI: Mattingly, B., National Science Foundation, June 2019.

Faculty Grant, \$3,000. *Application of Machine Learning Techniques to GIS and Drone Imagery*. Fine Teaching Development Award, Faculty Development Center, SUNY Cortland, April 2019.

Faculty Grant, \$2,500. *Cortland Tree Canopy Project*. PI: Shimizu, M., Co-PIs: Badurek, C.A. Cortland Applied Learning Practitioner Program, Institute for Civic Engagement, SUNY Cortland, October 2018.

Research Grant, \$150,000. *Institute for Geospatial and Drone Technology*. Downtown Redevelopment Initiative, New York State and SUNY Cortland, July 2018. PI: Miller, W., Co-PI: Duryea, D., and Badurek, C.A. June 2019-June 2021.

Research Grant, \$9,700. *Integrating UAS Data and GIS into STEM and Social Science Education*. SUNY Innovative Instruction Technology Grant (IITG), State University of New York, July 2018-July 2019.

Research Grant, \$3,000. *Assessing Impacts of Exurban Development on Land Cover of the Southern Appalachians using GIS Models and UAS*. Faculty Research Program, Research & Sponsored Programs Office, SUNY Cortland, funded July 2018-June 2019.

Imagery Grant, ~\$1,000. *Land Use Land Cover Change Analysis on Ambergris Caye, Belize*. Digital Globe Foundation, June 2018-June 2019.

Faculty Development Grant, \$365. *Turning Drone Data into Information*. Faculty Development Center, SUNY Cortland. Drone Curriculum Development, NEGSA, Burlington, VT, funded March 2018.

Professional Development Grant, \$1,000. *Small Unmanned Aerial Systems (sUAS) Piloting Workshop*. Haines Fund, SUNY Cortland, FAA Drone Piloting, Tech Garden, Syracuse, NY, funded Oct. 2017.

Fellowship, \$3,500. *Delaware River Watershed Network, Environmental Leadership Program, William Penn Foundation*, February 2016-July 2016.

Research Grant, \$2,500. *ASUREI Mobile App: Disseminating Information on Use of Renewable Energy to Educate ASU Students and Reduce Carbon Footprints*. Renewable Energy Initiative / University Research Council Grant, Cratis D. Williams Graduate School, ASU, funded Nov. 2013-May 2014.

Wachovia Environmental Research Award, \$500. *Coupled Human and Natural Systems - Impacts of Exurban Development on Density of Forested Areas of the Southern Appalachians*. Graduate School, Appalachian State University, funded October 2013.

Computing Equipment Grant, \$1,000. *Supporting Geocomputation and Geovisualization at the CAS Computation and Visualization Lab*. PI: Badurek, C.A. Department of Geography and Planning, Appalachian State University, funded June 2013.

Research Grant, \$1,000. *Examining Effects of Exurbanization and Land Use Land Cover Change on Ecological Indicators in Southern Appalachia*. PI: Badurek, C.A., Undergraduate Research Assistant Program, Office of Student Research, ASU, funded May 2013-August 2013.

Computing Equipment Grant, \$3,000. *Geocollaboration Facilities for CAS Computation and Visualization Lab*. PI: Badurek, C.A. Dean's Office, College of Arts and Sciences, ASU, funded May 2013.

Research Grant. \$3,000. *Carbon Emissions Inventories and Energy Policy Research*. PI: Marland, E. Co-PIs: Badurek, C.A., Marland, G., Ruseva, T. Conducting Complex Research Together (CONCERT) Initiative, Research Institute on Energy, Environment, and Economics (RIEEE), ASU, funded 2013-June 2013.

Research Grant, \$1,100. *Assessing Impacts of Residential Housing Development on Water Demand in Western North Carolina Research Extension*. PI: Badurek, C.A., Co-PI: Cockerill, K. Graduate Research Associate Mentoring Program Extension, Cratis D. Williams Graduate School, ASU, funded May 2013.



Research Grant, \$4,250. *Integrating Housing Economics, GIS Modeling and Ecosystem Services in the Southern Appalachians*. PI: Badurek, C.A. Co-PIs: Salinas, R., Morgan, A., Madritch, M., Dobson, G. Conducting Complex Research Together (CONCERT) Initiative, Research Institute on Energy, Environment, and Economics (RIEEE), ASU, funded March 2013-June 2013.

Research Grant, \$1,500. *Coupled Human and Natural Systems – Impacts on Exurban Development on Ecosystem Services in the Southern Appalachians*. PI: Badurek, C.A. Co-PIs: Salinas, R., Morgan, A., Madritch, M., Dobson, G. Big Ideas Grant, Cratis D. Williams Graduate School and Office of Research and Sponsored Programs, ASU, funded November 2012-July 2013.

Research Grant, \$1,542,900. *Continuations of the Carbon Monitoring System Flux Pilot Project*. PI: Bowman, K., Co-PIs: Marland, Badurek, C.A., and Marland, E. Jet Propulsion Lab and NASA, funded August 2012 – January 2014.

Research Grant, \$1,000. *Analysis and Modeling the Rate of Forested Land Cover Change in Western North Carolina*. PI: Badurek, C.A., Undergraduate Research Assistant Program, Office of Student Research, Appalachian State University, funded May 2012-August 2012.

Computing Equipment Grant, \$5,000. *Collaborative User Interface and Web GIS Design for CAS Computation and Visualization Lab*. PI: Badurek, C.A. Dean's Office, College of Arts and Sciences, Appalachian State University, funded March 2012.

Research Grant, \$10,000. *Increasing Diversity of Graduate Students Specializing in Geographic Information Systems (GIS)*. PI: Badurek, C.A. Diversity Research Associate Program, Cratis D. Williams Graduate School, Appalachian State University, funded August 2011-May 2012.

Research Contract, \$10,000. *Predictive GIS Modeling of Invasive Species for the NPS Appalachian National Scenic Trail*. PI: Badurek, C.A., Co-PIs: Denslow, M. Appalachian National Scenic Trail, National Park Service, funded July 2011–December 2011.

Computing Equipment Grant, \$3,300. *Web GIS and GIS Database Server*. Badurek, C.A., and Mayfield, M. Iron Systems, Inc. and The GIS Institute, June 2011.

Technical Contract, \$2,600. *Geovisualization for Flooding Hazard Mitigation and Emergency Response Planning*. PI: Badurek, C.A. Watauga County Emergency Management and Department of Homeland Security (DHS), funded Oct. 2010–May 2011.

Research Grant \$7,250. *Interdisciplinary Course: Land Cover Change Science*. PI: Badurek, C.A with Madritch, M., van de Gevel, S., Denslow, M. North Carolina Space Grant Program, NASA Space Grant Program, funded June 2011-June 2012.

Research Grant, \$22,000. *Assessing Impacts of Residential Housing Development on Water Demand in Western North Carolina*. PI: Badurek, C.A., Co-PIs: Cockerill, K., and Anderson, W. Graduate Research Associate Mentoring Program, Cratis D. Williams Graduate School, ASU, 2011-May 2013.

Research Grant, \$1,000. *Analysis and Modeling Impacts of Residential Housing Development on Water Demand in Western North Carolina*. PI: Badurek, C.A., Undergraduate Research Assistant Program, Office of Student Research, Appalachian State University, funded May 2011-August 2011.

Research Grant \$1,900. *Coordination of GIS Response to the Gulf Oil Spill Disaster in Louisiana*. PI: Badurek, C.A with Pine, J., Hazards Research Center, University of Colorado. Included travel support to Baton Rouge and coastal Louisiana, funded June 2010.

Technical Contract, \$4,033. *Land Parcel GIS Database Development for Western North Carolina*. PI: Badurek, C.A. Highland Mapping, funded June 2010–August 2010.

Research Grant, \$5,000. *GIS Assessment of Mountain Hazards Mitigation in the Guatemalan Highlands*. PI: Badurek, C.A., University Research Council, Appalachian State University. Included travel support to Guatemala, funded May 2010-May 2011.

Research Grant, \$2,000. *Environmental Planning along the South Fork New River, NC*. PIs: Crepeau, R., and Badurek, C.A., Undergraduate Research Assistant Program, Office of Student Research, Appalachian State University, funded May 2010-December 2010.

Education Outreach Grant, \$290. *ASUREI Student Renewable Energy Education and Outreach Kiosk Literature*. PIs: Franko, C., and Badurek, C.A. Appalachian Parents Association, funded May 2010.

Computing Equipment Grant, \$40,000. *High Performance Geovisualization Laboratory*. Badurek, C.A., Colby, J., Seagle, S. Dean's Office, College of Arts and Sciences, ASU, funded March 2010.

Research Grant \$18,000. *North Carolina Microhydro Assessment for Residential Energy (NC-MARE) Project*. State of North Carolina Energy Office and Energy Center, Appalachian State University. PI: Badurek, C.A. Co-PIs: Scanlin, D., Raichle, B., and Crepeau, R., funded August 2009 – August 2011.

Graduate Assistantship, \$1,200. *Appalachian on the Parkway: Appalachian State University Research Corridor*. PI: Badurek, C.A. Cratis D. Williams Graduate School, ASU, funded July 2009-August 2009.

Technical Contract, \$3,013. *GIS Analysis and Mapping for Watauga County Tourism Development Authority*. PI: Badurek, C.A. Watauga County, funded June 2009–August 2009.

Technical Contract, \$1,508. Proposal: *GIS Mapping of Ecological and Cultural Resources of Camp Lutherock, NC*. PI: Badurek, C.A. Lutherock-Lutheridge Foundation, funded June 2009–August 2009.

Research Grant, \$4,925. *Testing an Innovative GIS Approach to Determine Recreation Stakeholder Group Use and Perception of the Wilson Creek River Corridor*. PIs: Frauman, E., and Badurek, C.A. Appalachian Foundation Fellows Grant, Hubbard Center, ASU, funded June 2008-June 2009.

Education Grant, \$1,300. *ASUREI Student Renewable Energy Education and Outreach Kiosk Literature*. PIs: Simmons, C., and Badurek, C.A. Appalachian Parents Assoc. Grant, funded May 2008.

Computing Equipment Grant, \$10,000. *High Performance Computing GIScience Laboratory*. Colby, J., and Badurek, C.A. Dean's Office, College of Arts and Sciences, ASU, funded May 2008.

International Research Grant, \$2,250. *Field Testing a Global Refugee Impact Index (RII) in Western Tanzania*. PIs: Gentry, J., and Badurek, C.A. Office of Student Research and International Programs, Appalachian State University, April 2008.

Teaching Enhancement Grant, \$665. *Integrating GIS with Digital Video of São Paulo, Brazil*. Faculty and Academic Development Center, ASU, funded June 2007-May 2008.

Research Grant, \$20,000. *Application of NASA EOS Data to Research and Education in Mountain-focused Geographic Information Science*. PIs: Colby, J. and Badurek, C.A. NASA EOS and Laboratory for Advanced Information Technology and Standards (LAITS), GMU, funded May 2007-May 2009.

Research Fellowship, \$9,955. *Sustainable Mountain Viticulture in Western North Carolina*. PIs: Hunter, L., and Badurek, C.A., NC Beautiful Foundation, NC, May 2007.

Special Projects Grant, \$5,000. *Collaborative Approach to Support Participatory GIS for Guatemalan Land Registration*. PI: Badurek, C.A. National Center for Geographic Information and Analysis, University at Buffalo. NSF Grant Number: DGE-9870668. Included travel support to Guatemala, 2004-May 2005.

Dissertation Research Grant, \$1,192. *Spatial Change Similarity: Visualizing the Criminal History of Place*. PI: Badurek, C.A. Mark Diamond Research Fund, Graduate School, University at Buffalo. Number: 09-Fall-2003. Included travel support to São Paulo, Brazil, funded May 2004-May 2005.

Dissertation Research Fellowship, \$4,000. *Spatialization and Information Visualization Approaches for Spatial Databases*. PI: Badurek, C.A. College of Arts and Sciences, University at Buffalo, funded September 2001- May 2002.

IGERT in GIScience Training Fellowship, \$27,000/year. *National Science Foundation and National Center for Geographic Information Analysis (NCGIA)*, Univ. at Buffalo. Fall 1999-Spring 2003.

### **Conference and Workshop Travel Support**

Travel Support, \$400. *Undergraduate Research Travel*, Cortland College Foundation, November, 2021.

Professional Development Support, \$425. *Goodell Fund*, Arts & Sciences, SUNY Cortland, Nov. 2021.

Honorarium, \$300. *Speaker*, Redistricting with US Census Data, SUNY Cortland, Sept. 2021.

Honorarium, \$400. *Smart & Connected Communities Program Panel*, NSF, May 2021.

Professional Development Support, \$270. *SUNY Grant Writing Workshop*, SUNY Cortland, May 2020.

Travel Support, \$1,000. *Individual Development Award*, UUP, SUNY Cortland, April 2020 (declined).

Travel Support, \$150. *Speaker*, *Women's History Month*, WGS Program, SUNY Cortland, Jan. 2020.

Travel Support, \$344. *Individual Development Award*, UUP, SUNY Cortland, May 2019.

Travel Support, \$162. *Raquette Lake Field Visit*, Cortland College Foundation, May 2019.

Travel Support, 1,600. *ImPACT Development Grant*, Institute for Civic Engagement, SUNY Cortland,  
Travel support to Campus Compact Northeast Community Engagement Conference, Providence, RI,  
March 24-27, 2019.

Travel Support, ~\$1,500. *GIS Certification Exam Meeting*, GISCI, Merrifield, VA, August 2018.

Travel Support, ~\$1,300. *GIS Certification Exam Meeting*, GISCI, Merrifield, VA, July 2018.

Conference Scholarship, \$250. *State University of New York*. SUNY Conference on Instruction &  
Technology, SUNYCIT, SUNY Cortland, Cortland, NY, May 2018.

Travel Support, \$700. *International Program Development*, International Programs, SUNY-Cortland,  
Travel support to Belize, funded March 2018.

Travel Support, ~\$1,000. *GIS Certification Exam Meeting*, GISCI, Merrifield, VA, Feb. 2018.

Travel Support, \$50. *Geoscience Information Society Honorarium*, *GSA Conf.*, Seattle, WA, Nov. 2017.

Travel Support, ~\$500. *Certification Exam Meeting*, GIS Certification Institute, Reston, VA, July 2017.

Travel Support, ~\$500. *Certification Exam Meeting*, GIS Certification Institute, Reston, VA, Feb. 2017.

Travel Support, ~\$500. *Certification Exam Meeting*, GIS Certification Institute. Reston, VA, Aug. 2016.

Travel Support, ~\$500. *Certification Exam Meeting*, GIS Certification Institute. Reston, VA, Apr. 2016.

Travel Support, ~\$500. *Certification Exam Meeting*, GIS Certification Institute. Reston, VA, Aug. 2015.

Travel Support, ~\$500. *Certification Exam Meeting*, GIS Certification Institute. Reston, VA, Apr. 2015.

Travel Support, ~\$500. *Certification Exam Meeting*, GIS Certification Institute. Alexandria, VA, 2014.

Travel Support, ~\$500. *Certification Exam Meeting*, GIS Certification Institute. Alexandria, VA, 2014.

Travel Support, \$335. *Graduate School*, *Appalachian State University*. Travel support to NC Conference  
of Graduate Schools Graduate Research Presentations, Raleigh, NC, funded May 2013.

Travel Grant, \$500. *National Science Foundation*. Travel support to Workshop on Developing and  
Sustaining Interdisciplinary Graduate Programs, Coeur d'Alene, Idaho, October 7-8, 2012.

Travel Award, \$405. *Research Institute for Energy, Environment, and Economics (RIEEE)*, ASU. Travel  
support to Natural Hazards Research and Applications Workshop, Broomfield, CO, funded July 2012.

Travel Award, \$350. *Research Institute for Energy, Environment, and Economics*, ASU. Travel support to  
Southern Appalachian Man and Biosphere Conference, Asheville, NC, November 2011.

Travel Award, \$250. *National Science Foundation (NSF) and ASU Energy Center*. Travel support to  
Sustainably Integrated Building and Sites Center Planning Workshop, Charlotte, NC, December 2010.

Travel Grant, \$300. *National Center for Geographic Information and Analysis (NCGIA)*. Travel support to  
*Representing Reality: Imagery in the Cognitive, Social and Natural Sciences*, Buffalo, NY, May 2010.

Travel Grant, \$250. *Environmental Systems Research Institute (ESRI)*. Travel support to Space-Time  
Modeling and Analysis Workshop, Redlands, CA, February 22-23, 2010.

Travel Grant, \$2,000. *National Science Foundation (NSF) and Association of American Geographers (AAG)*.  
Travel support to International Geographical Union Meeting, Tunis, Tunisia, August 2008.

Travel Grant, \$250. *North American Cartographic Information Society (NACIS)*. Travel support to NACIS Annual Meeting, St. Louis, MO, October 2007.

Travel Grant, \$1,000. *IEEE/ACM*. Travel support to SuperComputing 2006, International Conference on High Performance Computing, Networking, Storage, and Analysis, Tampa, FL, Nov. 2006.

Travel Grant, \$425. *National Science Foundation (NSF)*. Travel support to NSF's Geography Faculty Development Alliance Workshop, University of Colorado, Boulder, CO, June 2006.

Travel Grant, \$750. *National Institute of Justice (NIJ)*. Included travel support to NIJ Mapping and Analysis for Public Safety International Crime Mapping Conference, Savannah, GA, Sept. 2005.

Travel Grant, \$2,000. *National Science Foundation and National Center for Geographic Information and Analysis (NCGIA)*. Travel support to Vespucci Summer School on GIScience, Fiesole, Italy, July 2005.

Travel Grant, \$350. *Graduate School Association, University at Buffalo*. Travel support to Association of American Geographers (AAG) Annual Meeting, Denver, CO, April 2005.

Conference Scholarship, \$125. *State University of New York*. SUNY Conference on Instruction & Technologies (SUNY CIT), SUNY at Potsdam, NY, May 2003.

Travel Grant, \$2,000. *National Center for Geographic Information and Analysis (NCGIA)*. Travel support to US-Japan Workshop on Image Annotation, Nikko, Japan, March 20-25, 2003. (declined)

Travel Grant, \$700. Best Paper Award, New England Chapter, *American Society for Information Society and Technology (ASIST)*. Travel support to ASIST Annual Conference, Chicago, IL, Nov. 2000.

Travel Grant, \$300. *SUNY Native American Western Consortium*. Travel support to University Consortium on GIScience (UCGIS) 2000 Summer Assembly, Mt. Hood, OR, June 2000.

## **PART 4. PROFESSIONAL WORKSHOP INSTRUCTION, CERTIFICATION, AND TRAINING**

### **Professional Certification**

*Unmanned Aircraft Drone Pilot Certification.*

Federal Aviation Administration (FAA #4165471), Aug 2018 – 2020, Recurrent Exam, Aug. 2020-2022.

*GIS Professional (GISP) Certification.*

GIS Certification Institute (GISCI #37891), Des Plaines, IL, 2011 – 2017, 2017 – 2019, 2019-2022.

*Certified NY iMapInvasives Trainer Certification.*

New York State Department of Environmental Conservation (NYSDEC), Albany, NY, October 2020.

*Certified Floodplain Manager (CFM) Certification.*

Association of State Floodplain Managers, Madison, WI, January 2014-January 2016.

*Professional Continuity of Operations Practitioner Level I Certificate.*

Emergency Management Institute, Federal Emergency Management Agency, 2014.

*Professional Development Series Certificate.*

Emergency Management Institute, Federal Emergency Management Agency, 2014.

### **Instructor/Presenter/Organizer - Professional Workshops [33]**

Instructor, *Rochester: Mapping Place, Space, and Identity NEH Summer Workshop*, St. John Fisher, 2021.

Instructor, *Part 107 UAS Exam Test Prep*, SkyOp, Canandaigua, NY, Nov. 4, 2019.

Instructor, *Part 107 UAS Exam Test Prep*, SkyOp, Tech Garden, Syracuse, NY, Sept 30, 2019.

Instructor, *Drones for Commercial Users*, SkyOp, Tech Garden, Syracuse, NY, August 12, 2019.

Instructor, *Part 107 UAS Exam Test Prep*, SkyOp, Tech Garden, Syracuse, NY, August 1, 2019.

Co-Organizer, *Service Learning Workshop*, Institute for Civic Engagement, SUNY Cortland, Sept. 27, 2019

Instructor, *Fundamentals of sUAS Operation*, SkyOp, Technology Garden, Syracuse, NY, July 30, 2019.

Instructor, *Drones for Commercial Users*, SkyOp, Tech Garden, Syracuse, NY, July 29, 2019.

Instructor, *Part 107 UAS Exam Test Prep*, SkyOp, Tech Garden, Syracuse, NY, July 18, 2019.

Instructor, *Fundamentals of sUAS Operation*, SkyOp, Tech Garden, Syracuse, NY, July 16, 2019.

Instructor, *Drones for Commercial Users*, SkyOp, Tech Garden, Syracuse, NY, July 15, 2019.

Instructor, *Part 107 UAS Exam Test Prep*, SkyOp, Tech Garden, Syracuse, NY, June 2019.

Instructor, *Fundamentals of sUAS Operation*, SkyOp, Tech Garden, Syracuse, NY, June 2019.

Instructor, *Drones for Commercial Users*, SkyOp, Tech Garden, Syracuse, NY, June 2019.

Presenter, *Managing Research Data Workshop*, Graduate College, Drexel U, Philadelphia, PA, May 2017.

Presenter, *Managing Research Data Workshop*, Office of Research, Drexel, Philadelphia, PA, Mar 2017.

Facilitator, *Science Communication Workshop*, Start Talking Science Symposium, Philadelphia, Aug. 2016.

Presenter, *Using ICSPR Data in Research and Teaching Workshop*, Drexel, Philadelphia, PA, March 2016.

Instructor, *Working with Web GIS across Disciplines Workshop*, Drexel, Philadelphia, PA, May 2015.

Organizer, *Social Media for Emergency Management Workshop*, FEMA, Stone Harbor, NJ, June 2014.

Presenter, *Getting to Resiliency Workshop*, Sustainable Jersey, TCNJ, Ewing, NJ, June 2014.

Presenter, *Mentoring Graduate Students Workshop*, Faculty Center, ASU, Boone, NC, March 2013.

Instructor, *GIS for Renewable Energy Workshop*, ASU Energy Center, Boone, NC, Sept. 3, 7, 2010.

Instructor, *North Carolina Geographical Alliance Leadership Institute*, ASU, Boone, NC, June 21-24, 2009.

Instructor, *Neogeography: Web 2.0 for Public Participation*, NC APA Institute, ASU, May 29, 2009.

Instructor, *North Carolina Geographical Alliance Leadership Institute*, ASU, Hudson, NC, Jan. 30, 2009.

Instructor, *North Carolina Geographical Alliance Leadership Institute*, ASU, Boone, NC, July 15-18, 2008.

Instructor, *Using GIS in Teaching Workshop*, Faculty Center, ASU, Boone, NC, February 21, 2008.

Instructor, *Visualization and Computing Workshop*, Science Ed. Center, ASU, Boone, NC, June 26, 2006.

Instructor, *Introduction to ArcGIS 9.x Workshop*, ASU, Boone, NC, May 10-11, 2006.  
Instructor, *Introduction to ArcGIS 9.x Workshop*, ASU, Boone, NC, August 9-10, 2005.  
Instructor, *Fall Conference for Teaching Assistants*, University at Buffalo, NY, August 23-26, 2004.  
Instructor, *Fall Conference for Teaching Assistants*, University at Buffalo, NY, August 18-21, 2003.

### **Academic Training Participation (\*Selected participant)**

*\*State Workshop: SUNY Startup Summer School (S4).*

Eight-week online workshop tech entrepreneurship, SUNY Research Foundation, June - August 2021.

*\*National Workshop: NSF Innovation Corps (I-Corps) Regional Workshop – Los Angeles, CA*

Two-week workshop on STEM research entrepreneurship, BOOM by Innovation Node - Los Angeles I-Corps Site, sponsored by National Science Foundation (NSF) and USC, November 2020.

*\*National Workshop: NSF Innovation Corps (I-Corps) Regional Workshop – Los Angeles, CA*

Two-week workshop on STEM research entrepreneurship, ZAP by Innovation Node - Los Angeles I-Corps Site, sponsored by National Science Foundation (NSF) and USC, October 2020.

*\*National Workshop: NSF Innovation Corps (I-Corps) Regional Workshop – Upstate NY*

Five-week workshop on STEM research entrepreneurship by Innovation Binghamton I-Corps Site, sponsored by National Science Foundation (NSF), Binghamton University, SUNY, May-June 2020.

*University Workshop: Fisher Apple Academy.*

Three-week course on integrating Apple products, St. John Fisher College, Rochester, NY, Aug. 2020.

*State Workshop: SUNY Grant Writing Workshop.*

Seven-week online workshop on grants development, SUNY CPD, May - July 2020.

*University Workshop: Fundamentals of Online Teaching.*

Four-week course on effective online education, St. John Fisher College, Rochester, NY, June 2019.

*National Workshop: Drones for Commercial Users, sUAS Operation, and Part 107 Test Prep.*

Three-day workshop on piloting drones, from SkyOp, Tech Garden, Syracuse, NY, May 2019.

*State Workshop: Certified NY iMapInvasives Trainer.*

Two-day workshop on teaching invasive species mapping, NY National Heritage Program, Nov. 2018.

*National Workshop: Intro to Piloting Small Unmanned Aircraft Systems (sUAS).*

Three-week workshop on piloting drones, from SkyOp, Tech Garden, Syracuse, NY, October 2017.

*\*National Workshop: Project TIER: Teaching Integrity in Empirical Research.*

Two-day workshop, reproducible quantitative research, Sloan Foundation, Haverford, PA, Nov. 2016.

*National Workshop: Data Carpentry.*

Two-day workshop on Python and R statistical methods, Cornell University, Ithaca, NY, June 2016.

*\*National Workshop: Environmental Leadership Program - Delaware River Watershed Network.*

12-day workshop on leadership for environmental stewardship, Wallingford, PA, Feb - July 2016.

*\*National Workshop: Developing and Sustaining Interdisciplinary Graduate Programs.*

Two-day workshop, sponsored by NSF, Virginia Tech, Univ. Idaho; Coeur d'Alene, ID, October 2012.

*National Workshop: Georeferencing Natural History Collections.*

Two-day workshop, sponsored by NSF and SERNEC, Boone, NC, January 2012.

*National Workshop: Geospatial Metadata 101.*

Two-day workshop, sponsored by USGS, Winston-Salem, NC, July 2009.

*National Workshop: Working with ERDAS Imagine.*

One-week workshop, remote sensing, image processing, Leica Geosystems, Norcross, GA, July 2008.

*\*National Workshop: Early Career Geography Faculty Development.*

One-week workshop, Geography Faculty Development Alliance. Sponsored by NSF and Association of American Geographers (AAG), University of Colorado, Boulder, CO, Summer 2006.

*\*International Workshop: Spatial Data Infrastructures (SDI).*

One-week workshop, Vespucci Summer School in Geographic Information Science. Sponsored by the NCGIA and NSF IGERT in Geographic Information Science Program, Fiesole, Italy, Summer 2005.

*National Workshop: Writing Case Studies for Teaching Science.*

Three-day workshop, National Center for Case Study Teaching in Science, sponsored by the NSF and NCGIA, University at Buffalo, SUNY, Fall 2003.

*\*National Workshop: Map Making and Visualization of Spatial Data in the Social Sciences.*

One-week workshop, Center for Spatially Integrated Social Science (CSISS), sponsored by the NSF and NCGIA, University of California, Santa Barbara, CA, Summer 2001.

*\*National Science Foundation IGERT Fellowship in Geographic Information Science.*

NSF Integrative Graduate Education and Research Training (IGERT) Program in Geographic Information Science, NCGIA and Geography Department, University at Buffalo, SUNY, 1999-2003.

**Consulting and Prior Academic Experience**

Cartographer, Fall 2009. For Ayres, H., Pennington, L., and Harman, D., 2010. *Arctic Gardens: Voices from an Abundant Land*. Boone, NC: Arctic Voices.

Cartography Consultant, Spring 2007. For Ayres, H., *Battle at Blair Mountain, WV: Report to National Park Service for National Register of Historic Places Consideration*. Boone, NC.

Cartographer, Summer 2006. For Little, C.E., and Ayres, H., *Arctic America* (book prospectus).

Cartographer, Spring 2005. For St. Jean, P., *Pockets of Crime* (book manuscript, Univ. of Chicago Press).

Web Designer, Fall 2003. NSF IGERT in GIScience, National Center for Geographic Information and Analysis (NCGIA), University at Buffalo, NY.

Web Database Developer, Summer 2000. Center for International Rehabilitation Research Information Exchange (CIRRIE), University at Buffalo, NY.

Web Designer, 1999. Seneca Iroquois National Museum, Seneca Nation of Indians, Salamanca, NY.

Web Designer, 1999. SUNY Native American Western Consortium, SUNY College at Fredonia, NY.

Web Designer and Survey Analyst, 1998. United University Professions (UUP), Univ. at Buffalo, NY.

Graduate Assistant Web Designer, 1998. Special Collections, Graduate Library, Univ. at Buffalo, NY.

Graduate Assistant, 1998. Collection Development Department, Graduate Library, Univ. at Buffalo, NY.

Undergraduate Research Assistant, 1992-94. Lead Exposure and Cognitive Impairment, Department of Psychology, Cornell University, Ithaca, NY.

Undergraduate Lab Assistant, 1992-94. Department of Plant Biology, Cornell University, Ithaca, NY.

Undergraduate Teaching Assistant, 1991-1992. American Indian Studies I and II, Department of Rural Sociology, Cornell University, Ithaca, NY.

Undergraduate Internship, 1991. Environmental Education, Cornell Cooperative Extension, Ithaca, NY.

**Academic Leadership Development**

*SWOT Analysis Workshop*, Union of University Professionals (UUP), SUNY Cortland, 2021.

*Civility in the Workplace Workshop*, Union of University Professionals (UUP), SUNY Cortland, 2021.

*Rethinking Abilities Workshop*, Multicultural Life & Diversity Office, SUNY Cortland, 2021.

*Unconscious Bias & Inclusion*, SUNY Research Foundation, 2021.

*Fundamentals of Media Relations*, Muckrack Academy, 2021.

*Celebrating the First Amendment Event at Newseum*, Newseum, Washington, DC, December 2019.

*Eastern Region Campus Compact Civic Engagement Conference*, Providence, RI, March 25-29, 2019.

*Crucial Conversations 2-Day Workshop*, Dean's Office, College of Arts & Sciences, SUNY Cortland, 2019.

*Service Learning Workshop*, Institute for Civic Engagement, SUNY Cortland, 2019.

*Deliberative Dialog for Civic Engagement Training*, Institute for Civic Engagement, SUNY Cortland, 2018.  
*Green Dot Training*, SUNY Cortland, 2018.  
*Social & Behavioral Responsible Conduct of Research*, CITI Program, 2018.  
*Human Research, Social & Behavioral*, CITI Program, 2018.  
*Community and Public Health Security: Disasters, Terrorism, and Emergency Management Systems Course*, School of Public Health, University of North Carolina, 2014.  
*Incident Command System (ICS) for Higher Education Institutions*, FEMA, 2014.

### **Microcredential Certificates**

*Designing the Future of Work*, University of New South Wales, Coursera, 2021.  
*Information Visualization: Applied Perception*, School of Engineering, New York Univ., Coursera, 2020  
*Information Visualization*, School of Engineering, New York University, Coursera, 2020  
*AI for Everyone*, DeepLearning.AI, Coursera, 2020  
*Apple Certified Teacher Certification*, Apple, 2020.  
*Writing Grants and Proposals*, State University of New York (SUNY), 2020.  
*Research Data Management and Sharing*, University of North Carolina, Coursera, 2018.  
*Learning How to Learn: Mastering Difficult Subjects*, McMaster University, Coursera, 2018.



## **PART 5. ADVISING AND MENTORING**

*\*Outstanding Master's Theses, Graduate School, ASU*

### **MA Geography Students Advised [40]**

- Welker, J., 2013. *GIS and Remote Sensing Analysis of Fossil Fuel Emissions for NASA Carbon Monitoring System (CMS)*.
- Chapman, A., 2013. *GIS Analysis of Exurbanization in the New River Watershed*.
- Lattea, J., 2013. *Spatial Analysis of Historic Land Use Data for the NPS Blue Ridge Parkway*.
- Taylor, P., 2013. *GIS Database Management at Beck Energy*.
- Arghiere, B., 2013. *Spatial Analysis of Home Loans at Quicken Loans*.
- Woodie, R., 2013. *GIS and Web Portal Design for the New River Analytics Consortium*.
- Rockwell, G., 2013. *North Carolina Energy Sector Analysis for the ASU Energy Center*.
- French, J., 2013. *Thesis: GIS Analysis of Impacts of TVA Dams on Residential Property Values in Eastern Tennessee*.
- Hale, R., 2013. *Thesis: The Role of Perception on Water Allocation and Conservation Management in Western North Carolina*.
- Anthony, M., 2012. *Thesis: Energy Policy and Social Network Analysis of the Clean Energy Economy of Western North Carolina*.
- Wize, B., 2012. *Web GIS Analysis and Desktop Support Analyst Development, ESRI-Charlotte*.
- Opelt, T., 2012. *Cartographic Design and Web GIS Application Development for Disaster Response, Samaritan's Purse, Boone, NC*.
- Jenkins, M., 2012. *GIS in Emergency Management, Town of Blowing Rock Fire Department, NC*.
- Young, L., 2012. *Lee-Walker Heights Neighborhood Plan for Asheville Design Center*.
- Ray, R., 2012. *Lee-Walker Heights Neighborhood Plan for Asheville Design Center*.
- Hufnagel, A., 2012. *GIS Analysis of Housing and Transportation Conditions, Town of Boone, NC*.
- Morgan, J., 2012. *Community Development Planning, Town of Wilkesboro, NC*.
- Keith, S., 2012. *GIS and Emergency Response Planning, Watauga County Emergency Management and Town of Boone, NC*.
- Redman, L., 2012. *Weatherization and Energy Planning for Low Income Communities, WAMY Community Action, Boone, NC*.
- Philyaw, D., 2012. *GIS Database Development and Emergency Response Mapping at Grandfather Mountain State Park, NC*.
- Talton, F., 2011. *Biological and GIS Database Development and Analysis for Endangered Species Branch, Fish and Wildlife Service, Anchorage, Alaska*.
- Hagevik, C., 2011. *Thesis: Mapping Bolivia's Socio-Political Climate: Evaluation of Multivariate Design Strategies*.
- Post, J., 2011. *Use of GIS at Carl Sandburg Home National Historic Site, NPS, Flat Rock, NC*.
- \*Waynick, J., 2010. *Thesis: GIS Analysis of Campus Crime, Lighting, and Surveyed Perceptions of Safety*.
- Erath, K., 2010. *GIS Database Management and Cultural Resource Mapping for the Blue Ridge Parkway, National Park Service, Asheville, NC*.
- Lippard, B., 2010. *Town of Fairview, NC Community Plan for Asheville Design Center*.
- DeForth, L., 2010. *Town of Fairview, NC Community Plan for Asheville Design Center*.
- Bowman, L., 2010. *Thesis: Joel Sweeney's Role in the Diffusion of the Traditional Southern Black Banjo: A Historical GIS Approach*.
- Saunders, B., 2010. *Thesis: Assessing Impacts of Rural Gentrification on an Appalachian Community in Watauga County, NC*.

Turner, J., 2010. *Thesis: A Geographic Ontology and GIS Model for Carolina Bays.*

Edwards, L., 2010. *GIScience Research at the Eastern Forest Environmental Threat Assessment Center, Southern Research Station, US Forest Service, Asheville, NC.*

Sachs, B., 2010. *Use of GIS and Geovisualization Techniques to Support Outdoor Recreation Tourism for the Watauga County Tourism Development Authority.*

Potawsky, Y., 2009. *Geovisualization of Forested Lands and Sustainable Urban Development at National Environmental Modeling and Analysis Center, Asheville, NC.*

Scott, J., 2009. *GIS and Environmental Planning at the Town of Beech Mountain, NC.*

Chamberlain, A., 2009. *GIS Management at Arcadis Consulting, Charlotte, NC.*

\*Gentry, D., 2009. *Thesis: Refugee Impacts on Host Communities in Western Tanzania: A GIS and Mixed-Methods Geographic Analysis.*

Majer, L., 2009. *City of Asheville Burton Street Neighborhood Plan for Asheville Design Center.*

O'Connor, J., 2009. *City of Asheville Burton Street Neighborhood Plan for Asheville Design Center.*

Carlton, A., 2008. *Transportation Planning and GIS with City of Charlotte DOT, Charlotte, NC.*

\*Hunter, L., 2008. *Thesis: Integrating GIS and Geosensors to Support Sustainable Agriculture in a North Carolina Mountain Vineyard.*

### **MA Geography, MS Biology<sup>1</sup>, or MS Technology and Environmental Design<sup>2</sup> Committees [31]**

Todd, C., 2014. *Community and Economic Development at Wilkesboro Planning Department, NC*

<sup>1</sup>Rifenburg, K., 2013. *Thesis: Effects of Ski Slopes and Artificial Snow Production on Montaine Streams.*

Sugg, J., 2013. *Thesis: Satellite and Surface Perspectives of Snow Extent in the Southern Appalachian Mountains.*

Walsh, C., 2012. *Community Planning at the Town of Blowing Rock, NC.*

Capezzali, S., 2012. *Lee-Walker Heights Neighborhood Plan for Asheville Design Center, NC.*

Griffith, R., 2012. *Lee-Walker Heights Neighborhood Plan for Asheville Design Center, NC.*

Cluxton, R., 2012. *Lee-Walker Heights Neighborhood Plan for Asheville Design Center, NC.*

Reardon, A., 2012. *Lee-Walker Heights Neighborhood Plan for Asheville Design Center, NC.*

\*Bartlett, M., 2012. *Thesis: Levee Boards of the Yazoo Mississippi Delta: A Fight to Control the River.*

<sup>2</sup>Abernathy, L., 2012. *Wind and Solar Energy Analysis using GIS and the ASU Solar Energy Lab.*

Turner, A., 2012. *Flood Modeling and Post-Processing of Mobile and Terrestrial Lidar Data.*

\*Coffey, C., 2011. *Thesis: The Effects of Impervious Surfaces and Forests on Water Quality in the Southern Appalachian Headwater Catchment: A Geospatial Modeling Approach.*

Byer, M., 2011. *Town of Fairview, NC Community Plan for Asheville Design Center.*

Stephenson, J., 2010. *Town of Fairview, NC Community Plan for Asheville Design Center.*

Lockamy, P., 2010. *Town of Fairview, NC Community Plan for Asheville Design Center.*

Larsen, D., 2010. *Town of Fairview, NC Community Plan for Asheville Design Center.*

Sheppard, A., 2010. *Town of Fairview, NC Community Plan for Asheville Design Center.*

Rizor, J., 2010. *Emergency Management with Watauga County Fire Marshall, Boone, NC.*

Smith, S., 2010. *Thesis: The Contribution of Rural Land Uses to Floristic Diversity: A Multi-scale Study of Organic Farms and Subdivisions in the Southern Appalachians.*

Renwick, K., 2010. *Thesis: Indigenous Conservation: An Alternative to the Displacement of Forest Dwelling Indigenous and Tribal Populations.*

Spillman, A., 2009. *Regional Planning at Lincoln County Economic Development Agency, NC.*

Griggs, D., 2009. *GIS Mapping at Great Smoky Mountain National Park, National Park Service.*

Laird, K., 2009. *Initiating the Benchmarking Study for the European Railway Agency.*

White, K., 2009. *Protecting Public Lands: Encroachments along the Blue Ridge Parkway, NPS.*

Gandy, W., 2009. *Thesis: Groundwater Yield Modeling in the Fractured Bedrock Aquifers of the Blue Ridge Physiographic Province, Watauga County, North Carolina.*

Koslen, Y., 2009. *City of Asheville Burton Street Neighborhood Plan for Asheville Design Center.*

Balfrey, D., 2008. *Mountain Weather Observation and Analysis at Mount Washington Observatory.*

Harrold, J., 2008. *Town Planning in North Wilkesboro, NC.*

Sloop, J., 2007. *Small Town Planning in Yadkinville, NC.*

Sneller, S., 2007. *Planning GIS Applications at Samaritan's Purse, Boone, NC.*

Bryant, A., 2007. *Thesis: Mitigating the Effects of Differential Illumination in Multispectral Satellite Imagery in the Appalachian Mountains.*

#### **Graduate Certificate in Geographic Information Science Advisees [5]**

Harkey, Ju., 2012, MS Biology. Harkey, Ja, 2012, MS Biology. Hayes, S., 2011, MS Technology.  
 Pate, S., 2010, MS Biology. Denslow, M., 2009, MS Biology.

#### **Undergraduate Honors Theses Advised and \*Committees [7]**

\*Toupal, J., 2019. *Using Remote Sensing to Analyze Mercury Contamination in Vegetated Areas: The Case of Tarkwa, Ghana.* BS Geosciences, Hobart & William Smith (HWS) Colleges.

Morris, E., 2013. *Analysis of Urban Land Cover on Precipitation around Three Urban Centers in the Kentucky-Ohio River Valley.* BS Geography (GIS Concentration), ASU.

Elliott, J., 2012. *A Trek through Time: Impacts of South African Geography on Afrikaner Politics.* BS Geography (GIS Concentration), BS Community-Regional Planning, ASU.

Franko, C., 2010. *Analysis of Siting Factors for Farmer's Markets in College Towns.* BA Geography, ASU.

\*Anderson, C., 2010. *GIS-based Viewshed Analysis of the Blue Ridge Parkway.* BS Geography (GIS), ASU.

Aull, R., 2009. *A Comparison of Image Enhancement and Classification Techniques to Aid Feature Detection in Arid Environments.* BS Geography (GIS Concentration), ASU.

Sugg, J., 2008. *A GIScience Investigation of Mass Balance Change on the Franz Josef Glacier, New Zealand.* BS Geography (GIS Concentration), ASU.

#### **Mentored Undergraduate Student Honors: National Science Foundation (NSF), ISPRS, State [13]**

Bonfiglio, B. 2021. *Invited Participant, NYS GIS Association Student Showcase.*

Buckingham, G. 2013. *NSF REU: Geospatial Research and Mapping, Hawaii, \$1,500.*

Morris, E., 2013. *G. Herbert Stout Undergraduate Award, NCGIS Conference Outstanding Paper, \$75.*

Rubin, S., 2012. *ESRI GIS International User Conference Scholarship, San Diego, CA.*

Morris, E., 2012. *NSF REU: Ecohydrology of Tropical Forests in Costa Rica, Texas A&M, \$5,000.*

Morris, E., 2011. *NSF REU: Upper Green River Watershed, Western Kentucky Univ., \$5,000.*

Hutchins, M., 2011. *Invited Participant, ISPRS International Summer School on Lidar Data Processing.*

Todd, C., 2011. *Outstanding Undergraduate Student Research Scholarship Award, NCAUG, \$500.*

Chapman, A., 2011. *NCGIS Conference Outstanding Undergraduate Paper Competition, NCCGIA, \$75.*

Vaughan, R., and Hagevik, C., 2010. *First Place, Outstanding Poster Contest, NCAUG Conf., \$100.*

Aull, R., 2009. *G. Herbert Stout Undergraduate Award, NCGIS Conference Outstanding Paper, \$100.*

Carroll, M., 2008. *Outstanding Undergraduate Student Research Scholarship Award, NCAUG, \$300.*

Brannock, J., 2006. *Maxfield Undergraduate Award, Gamma Theta Upsilon Honor Society, \$500.*

#### **Mentored Graduate Student Honors: American Association of Geographers, NASA, State [27]**

Welker, J., 2013. *Outstanding Graduate Poster Contest Award, SEDAAG Conference, \$500.*

Hutchins, M., 2013. *NASA Graduate Research Internship, Goddard Center, MD, \$6,000.*

Hutchins, M., 2013. *Earl Cook Award for Outstanding Graduate Paper*, awarded by Energy and Environment Specialty Group, \$250.

Hale, R., 2013. *Saarinen Outstanding Research Paper Award*, Environmental Perception and Behavioral Geography (EPBG) Specialty Group, \$200.

Hale, R., 2013. *Conference Travel Award*, Water Resources Specialty Group, \$300.

Chapman, A., 2013. *Outstanding Poster Contest Award, Student Category*, NCAUG Conference.

Hutchins, M., 2013. *Outstanding Mobile App Contest Award, Student Category*, NCAUG Conference.

Hale, R., 2012. *Conference Travel Award*, Environmental Perception and Behavioral Geography, \$135.

Hutchins, M., 2012. *Outstanding Poster Contest Award, Professional Category*, NCAUG Conference, \$25.

French, J., 2012. *Outstanding Poster Contest Award, Student Category*, NCAUG Conference, \$25.

Hufnagel, A., 2012. *Outstanding Web App Contest Award, Student Category*, NCAUG Conference, \$25.

Lattea, J., 2012. *Outstanding Graduate Student Research Scholarship Award*, NCAUG, \$500.

Turner, A., 2011. *Outstanding Poster Contest Award, Student Category*, NCAUG Conference.

Waynick, J., 2011. *NCGIS Conference Outstanding Graduate Paper Competition*, NCCGIA, \$50.

Hagevik, C., 2011. *Horst Field Study Grant*, Conference of Latin American Geographers, \$250.

Waynick, J., 2010. *Saarinen Outstanding Research Paper Award*, Environmental Perception and Behavioral Geography Specialty Group, \$200.

Waynick, J., 2010. *AAG Conference Travel Award*, Environmental Perception and Behavioral Geography Specialty Group, \$140.

Vaughan, R., and Hagevik, C., 2010. *First Place, Outstanding Poster Contest*, NCAUG Conf., \$100.

Hagevik, C., 2010. *Outstanding Graduate Student Research Scholarship Award*, NCAUG, \$500.

Turner, J., 2010. *Outstanding Poster Contest, Second Place*, NCAUG Annual Meeting.

Post, J., 2010. *Outstanding Graduate Student Research Scholarship Award*, NCAUG, \$500.

Waynick, J., 2009. *Honorable Mention, Outstanding Map Contest*, NCAUG Annual Meeting.

Anthony, M., 2009. *New Energy Conference Scholarship*, Appalachian Regional Commission, \$500.

Turner, J., 2009. *Outstanding Graduate Student Research Scholarship Award*, NCAUG, \$300.

Chamberlain, A., 2009. *G. Herbert Stout Graduate Award, NCGIS Conference Outstanding Paper*, \$100.

Gandy, W., 2009. *Honorable Mention, North Carolina GIS Conference Outstanding Poster Competition*.

Hunter, L., 2008. *Outstanding Graduate Student Award, International Conference on Precision Agriculture Conference, Denver, CO*, \$500.

#### **Mentored \*Undergraduate and Graduate GeoEye Foundation Imagery Grants**

Jenkins, M., 2012. *Analysis of Refugee Camp Impacts on the Syria-Turkey Border*, ~\$500.

Wize, B., 2012. *Wind Energy Site Analysis Project, New River Gorge, WV*, ~\$500.

Talton, F., 2010. *Land Tenure and Landslide Risk Study, Guatemala*, ~\$500.

\*Aull, R., 2009. *Feature Recognition in Arid Environments Study, Libya and Iraq*, ~\$500.

Potawsky, Y., 2009. *Southeast Asia Urbanization Study, Vietnam and Cambodia*, ~\$500.

#### **Mentored \*Undergraduate and Graduate University Research Grants [17]**

\*Bonfiglio, B. 2021. *Undergraduate Summer Research Fellowship*, Undergrad Research Council, \$4,000.

\*Nasuti, P., 2013. *Low-Cost UAV for Collecting 3D Point Cloud Data for Land Cover*. RIEEE, \$500.

Flanagan, M., 2013. *Low-Cost UAV for Collecting 3D Point Cloud Data*. Office of Student Research, \$300.

Hale, R., 2012. *Graduate Student Association Senate Travel Grant*, Graduate School, \$313.

\*Morris, E., 2012. *Phi Kappa Phi Undergraduate Research Grant*, Phi Kappa Phi, \$265.

\*Lavery, R., 2012. *GIS Analysis of Street Noise in Town of Boone, NC*. Office of Student Research, \$150.

Jenkins, M., 2012. *Integrating GIS, Drone Photogrammetry, and Computer Vision*. OSR, \$250.

Philyaw, D., 2012. *Mobile Device Information Architecture for Environmental Data*. RIEEE, \$400.  
 Talton, F., 2011. *GIS and Solar PV Site Analysis at ASU Farm Site*. Office of Student Research,, \$300  
 Hagevik, C., 2011. *International Graduate Research Travel Grant*, International Programs, \$1,500.  
 Hepler, M., 2010. *Measuring Collateral Environmental Impacts of Coal Mining*. Energy Center, \$300.  
 \*Gooley, K., 2010. *GIS and Wind Power Site Analysis in Watauga County, NC*. Energy Center: \$250  
 Anthony, M., 2010. *Interviews of Renewable Energy Social Networks in NC*. Energy Center, \$375.  
 \*Franko, C., 2010. *Site Assessments for Farmers Markets in Southern Appalachia*. OSR, \$223.  
 Hepler, M., 2010. *Field Water Sample Analysis of Contamination from Coal Mining, WV*. OSR, \$400.  
 Hunter, L., 2007. *Integrating GIS and Soil Moisture Sensors for Agriculture*, OSR, \$290.  
 \*Gentry, D.J., 2007. *GIS and Hazards Mitigation near Cotopaxi Volcano, Ecuador*. OSR, \$290.

### **Mentored Student Research Day Presentations [43]**

Mentor, Undergraduate Student Poster Presentations, SUNY Cortland, 9 total.

Mentor, Graduate and Undergraduate Student Oral and Poster Presentations, ASU, 34 total.

[20 graduate, 14 undergraduate, 13 Outstanding Research nominees, 5 award winners]

### **Mentored Undergraduate Research Assistants [40]**

*\*Undergraduate Research Assistant (URA) Grant funded (11)*

**GIS Majors:** Aull, \*Bonfiglio, \*Brierton, \*Brown, \*Buckingham, Carroll, \*Chapman, Dinsmore, Fisher, Franko, Gentry, Gooley, Homer, \*Jessup, Lavery, Moncelle, Morris, Nasuti, Raymond, \*Riddle, Riesett, \*Rosado, Rozwod, Tedlow, \*Todd, Williams.

**Interdisciplinary:** \*Branham (Math), Crocker (Geology), Hunter (Biology), Hutchins (Env Science), Hyman (Sustainable Tech), Laplant (Media Studies), J. Salz (Biology), M. Salz (Biology), Soule (Geology), Storniolo (Geology), Vaughan (Biology), Walker (Geology), \*Woodard (Math), Yarborough (Geology).

### **Undergraduate and Graduate GIS Internships Supervised [123]**

Undergraduate [92], Graduate [31]. *Students: Appalachian State University, Binghamton University, SUNY; Drexel University, Monroe Community College, SUNY Cortland.*

### **Mentored Undergraduate and Graduate Student Academic Placement [38]**

**Masters:** Brierton, Crocker (SUNY Binghamton), Homer (SUNY Albany), Aull, Hague, M. Salz, Sigler, Waterman (NC State), Corsaro, Goldberg, (UNC-Greensboro), Arghiere (UNC-Wilmington), Elliott, Rubin (Clemson), Purpur (UNC), Morris (Oregon), J. Salz (Maryland), Warren (PSU), Dunlap (USC), McGee (W. Washington), Chapman, Dannemiller, Flanagan, Gentry, Gover, Honeycutt, Hunter, Hutchins, Jackson-Jordan, Redman, Saunders, Sugg, Todd, Waynick, Woodie (ASU).

**PhD:** Post (UMass), Saunders (NC State), Sloop, Turner (UNC-Greensboro).

### **Undergraduate Geography Independent Study Courses [18]**

*Bolivian Gas Politics, GIS for Environmental Modeling, GIS for Environmental Monitoring, GIS for Environmental Education, GIS for Flood Mitigation, GIS for Hydrology, GIS for Wind Energy, GIS in Agriculture, GIS Modeling and Geovisualization, GIS Programming (2), Landscape Ecology and Modeling, Remote Sensing for Environmental Planning, Multispectral Image Analysis, Urban Geography of China, Web GIS and Geodatabases (3).*

**Graduate Geography Independent Study Courses [44]**

*Cartographic Design with Illustrator (2), Energy Analysis and Planning, Geospatial Technology and Human Rights, Geovisualization of Forest Stand Interface, Geovisualization and 3D Modeling, GIS Analysis and Cartography, GIS and CAD Integration, GIS and Gaming Technology, GIS and Geosensors in Agriculture, GIS and Public Health, GIS Database Design (3), GIS for Community Development, GIS for Environmental Design, GIS for Environmental Education, GIS for Environmental Management (2), GIS for Environmental Modeling, GIS for Environmental Perception, GIS for Environmental Toxicology (2), GIS for International Development, GIS for Landscape Ecology, GIS for Land Use Analysis, GIS for Planning, GIS for Plant Ecology, GIS for Urban Ecology, GIS Programming and CAD (2), GIS Programming and Databases, GIS Simulation and Geovisualization, Green Business Development, Historical GIS, Interactive Cartography, Lidar Data Processing, Land Use Land Cover (LULC) Modeling, Multispectral Image Processing, Regional Conflict and Development, Rural Gentrification, Urban Remote Sensing, Sustainable Communities, Water Modeling with GIS, Web GIS for Science Education, Wind Issues in North Carolina.*

## **PART 6. ACADEMIC LEADERSHIP AND PROFESSIONAL SERVICE**

### ***American Association of Geographers (AAG)***

Member, Student Award and Scholarship Committee, 2013-2016.

Chair, Environmental Perception and Behavioral Geography Specialty Group, (elected), 2010-2013.

Judge, Saarinen Outstanding Research Paper Contest, EPBG Specialty Group, (elected), 2009-2011.

Councilor, Environmental Perception and Behavioral Geog. Specialty Group, (elected), 2009-2010.

### ***American Association of Geographers, Middle States Division***

Member, 2017-.

### ***American Association of Geographers, Southeastern Division (SEDAAG)***

Chair, Honors Committee, (elected), 2012-2013.

Chair Elect, Honors Committee, (elected), 2011-2012.

Member, Steering Committee, 2013.

Member, Annual Conference Program Committee, 2011, 2012.

Member, World Geography Bowl Committee, 2010, 2011, 2012, 2013.

Member, Tellers Committee, 2010-2011.

Member, Education Committee, 2009, 2010, 2011.

### ***American Indian Science and Engineering Society (AISES)***

Member, 1990-1994, 2020-.

### ***Association of Unmanned Vehicle Systems International (AUVSI)***

Member, 2020-.

### ***Gamma Theta Upsilon, National Geography Honor Society***

National Councilor, Epsilon Zeta Chapter, 2010-2013.

Full Member, 2010-.

### ***Geological Society of America (GSA)***

Member, Joint Technical Program Committee, 2016, 2017, 2018.

Representative, Geoscience Information and Communication, Annual Meeting, 2016, 2017, 2018.

Member, Geoinformatics Specialty Group, 2016, 2017, 2018.

### ***Geoscience Information Society***

Past President (elected) , 2019-2020.

President (elected), 2018-2019.

President-Elect (elected), 2017-2018.

Vice-President (elected), 2017-2018.

Executive Board, 2017, 2018, 2019, 2020.

Chair, Nominations Committee, 2020.

Member, Best Paper Committee, 2020.

GSIS Professional Sessions Organizer, GSA Conference, 2018.

Convener, Executive Board and Business Meeting, 2019.

Convener, GSA Conference Sessions, 2016, 2017, 2018.

### ***GIS Certification Institute (GISCI)***

Member, GISP Outreach Committee, 2018, 2019, 2020, 2021

Member, GISP Exam Development Committee, 2014, 2015, 2016, 2017, 2018, 2019.

Member, GISP Exam Blueprint Committee, 2018, 2019.

Member, GISP, 2011-

### ***National Geographic Alliances***

Member, New York Geographic Alliance, 2018-.

Member, Instructor, North Carolina Geographic Alliance, 2008-2013.

***New York Coalition for Sustainability in Higher Education (NYCSHE)***

Member, 2018-.

***New York State GIS Association (NYSGISA)***

Past-President, (elected), 2021-2022.

President, (elected), 2020-2021.

President-Elect, (elected), 2019-2020.

Member, Board of Directors (elected), 2018, 2019, 2020, 2021.

Co-Chair, NYGeoCon 2023 Conference Organization Committee, 2021-.

Chair, NYSGISA Annual Meeting 2021 Organization Committee, 2019-2021.

Co-Chair, NYGeoCon 2019 Conference Organization Committee, 2018-2019.

Chair, Election Committee, 2021.

Member, Nominations Committee, 2021.

Chair, Nominations Committee, 2020.

Chair, Audit Committee, 2019-2020.

Chair, Education Committee, 2018, 2019, 2020.

Member, Membership Committee, 2021-.

Member, Legislative Committee, 2020-.

Member, Education Committee, 2017-2018, 2020-.

***North Carolina ArcGIS Users Group***

Member, Board of Directors, 2010, 2011, 2012, 2013, 2014.

Member, Organizing Committee, Annual Meeting, 2010, 2011, 2012, 2013.

Member, Social Media Committee, 2012-2014.

Member, Student Mentoring Committee, 2012-2013.

***North Carolina Geographical Society***

President, (elected), 2011-2013.

Secretary-Treasurer, (elected), 2009-2011.

Nominating Committee, North Carolina Educator of the Year Award, 2010, 2011, 2012, 2013

Field Trip Leader, Annual Meeting, 2009, 2011, 2013.

***Phi Kappa Phi, National Social Science Honor Society***

Full Member, 2018-.

***Sigma Xi, National Science Honor Society***

Reviewer, Student Research Showcase, 2015, 2016, 2017, 2018, 2020

Full Member, 2013-.

**Journal Manuscript Reviews [128, 18 publications]**

*Crime Mapping*

*Development in Practice (12)*

*Environmental Practice*

*Eos-Transactions, American Geophysical Union (AGU) (3)*

*Focus on Geography*

*International Journal of Applied Geospatial Research*

*International Journal of Mass Emergencies and Disasters*

*Journal of Applied Geography*

*Journal of Environmental Management (12)*

*Journal of Geography (16)*



*Journal of Geophysical Research - Biogeosciences*

*Journal of Spatial Science* (2)

*Natural Hazards Review* (53)

*Papers in Applied Geography* (5)

*Professional Geographer* (10)

*Revista Polytecnica* (2)

*Socio-Economic Planning Sciences* (2)

*Southeastern Geographer* (2)

#### **External Grant Proposal Review Service [24]**

National Science Foundation, Division of Undergraduate Education (DUE) Program

National Science Foundation, Geography and Spatial Sciences Program (2)

National Science Foundation, Reviewer, Panelist, Smart & Connected Communities (SCC) Program (6)

State University of New York, Innovative Instruction Technology Grants – SUNY IITG (15)

#### **Faculty Review Service [26]**

Appalachian State University, Physical Geography Faculty Position

St. John's University, Environmental Studies & GIS Faculty Position

Stanford University, Geosciences Librarian Position

State University of New York at Cortland, GIS Faculty Position (2)

State University of New York at Cortland, Social & Behavioral Sciences Faculty Positions (18)

State University of New York at Cortland, Computer Applications Librarian Position

University of Georgia, Geosciences Librarian Position

University of Redlands, GIS Faculty Position

#### **Book Chapter Manuscript and Monograph Reviews [6]**

Yang, C., (Ed.) *Spatial Cloud Computing: A Practical Approach*. Boca Raton, FL: CRC Press, 2013.

Herried, K., and Schiller, N., (Eds.) *Case Studies in Science Teaching, The National Center for Case Study Teaching in Science Case Collection*. Buffalo, NY: NCCSTS, Summer 2012.

US Forest Service, *Western North Carolina Report Card on Forest Sustainability*. Asheville, NC: Southern Research Station, USFS, Fall 2011.

US Forest Service, *Western North Carolina Report Card on Sustainability*. Asheville, NC: Southern Research Station, USFS, Summer 2009.

Solem, M., and Foote, K. (Eds.), *Teaching College Geography: A Practical Guide for Graduate Students and Early Career Faculty*. Washington, DC: Association of American Geographers, 2007.

Wang, F. (Ed.), *Crime Mapping and Beyond: GIS Applications in Crime Studies*. Hershey, PA: Idea Group Publishing, 2003.

#### **Textbook Reviews [6]**

Pulsipher, L., and Pulsipher, A., *World Regional Geography Concepts*. Freeman & Worth, Fall 2010.

Price, M., *Mastering ArcGIS, 5<sup>th</sup> Ed.* Dubuque, IA: McGraw-Hill, Spring 2009.

de Blij, H., et al. *The World Today: Concepts and Regions in Geography, 4<sup>th</sup> Ed.* Wiley, Spring 2008.

Bradshaw, M., et al. *Essentials of World Regional Geography*. McGraw-Hill, Summer 2006.

Kaplan, D., et al. *Urban Geography*. Hoboken, NJ: Wiley & Sons, Fall 2003.

Kuby, M., et al. *Human Geography in Action, 3<sup>rd</sup> Ed.* Hoboken, NJ: Wiley & Sons, Summer 2002.

### **Academic Conference Program Committee Service [28]**

Member, STRATUS UAS Conference, Syracuse, NY, May 23-25, 2022.  
Reviewer, SUNYCIT - SUNY Conference on Instruction & Technology, Oswego, NY, May 31-June 3, 2022.  
Member, Alumni & Undergraduate Science Symposium, Cortland, NY, October 22-23, 2021.  
Chair, Annual Meeting, New York State GIS Association, September 21-22, 2021.  
Reviewer, SUNYCIT - SUNY Conference on Instruction & Technology, May 26-30, 2021.  
Reviewer, SUNYCIT - SUNY Conference on Instruction & Technology, Oswego, NY, May 28-31, 2020.  
Member, Alumni & Undergraduate Science Symposium, Cortland, NY, October 10-11, 2019.  
Co-Chair, NY GeoCon, New York State GIS Association Conference, Syracuse, NY, Sept. 22-24, 2019.  
Reviewer, NY GeoCon, New York State GIS Association Conference, Syracuse, NY, Sept. 22-24, 2019.  
Reviewer, SUNYCIT - SUNY Conference Instruction & Technology, Purchase, NY, May 28-31, 2019.  
Member, Geological Society of America, Indianapolis, IN, Nov. 4-7, 2018.  
Member, Geological Society of America, Seattle, WA, Oct. 22-25, 2017.  
Member, Geological Society of America, Denver, CO, Sept. 25-28, 2016.  
Reviewer, Information Architecture Summit, Minneapolis, MN, April 22-26, 2015.  
Member, North Carolina ArcGIS Users Group Meeting, Carolina Beach, NC, October, 2013.  
Chair, North Carolina Geographical Society Annual Meeting, Boone, NC, October, 2013.  
Member, New River Symposium, Radford, VA, May 30-31, 2013.  
Member, Southeastern Division AAG Annual Meeting, Asheville, NC, Nov. 18-20, 2012.  
Chair, North Carolina Geographical Society Annual Meeting, Wilmington, NC, Oct. 26-27, 2012.  
Member, North Carolina ArcGIS Users Group Meeting, Carolina Beach, NC, Oct. 22-26, 2012.  
Chair, North Carolina Geographical Society Annual Meeting, Greensboro, NC, Sept. 30 - Oct. 1, 2011.  
Member, North Carolina ArcGIS Users Group Meeting, Carolina Beach, NC, Sept. 14-16, 2011.  
Member, Southeastern Division AAG Annual Meeting, Savannah, GA, Nov. 20-22, 2011.  
Member, Carolinas Society of Environmental Toxicology & Chemistry, Boone, NC, March 24-26, 2011.  
Member, North Carolina Geographical Society Annual Meeting, Greenville, NC, November 5-6, 2010.  
Member, North Carolina ArcGIS Users Group Meeting, Carolina Beach, NC, Sept. 15-17, 2010.  
Member, North Carolina Geographical Society Annual Meeting, Boone, NC, November 2009  
Member, North Carolina American Planning Association Summer Institute, Boone, NC, May 2009.

### **Undergraduate and Graduate Student Research Awards, Competition, & Conference Service [50]**

Judge, Student STEM Entrepreneurship Contest, *Conrad Foundation Challenge, Sigma Xi, Jan. 2022.*  
Reviewer, Interdisciplinary Category, *CUR Undergraduate Research Conference, Jan. 2022.*  
Member, Undergraduate Research Conference Committee, *SUNY Cortland, Nov. 2021-.*  
Lead Judge, Behavioral & Social Sciences Category, *Sigma Xi Student Research Conference, Nov. 2021.*  
Judge, Tools for Science, Education, and Learning, *Sigma Xi Student Research Conference, Nov. 2021*  
Reviewer, Undergraduate Research Presenters, *SUNY Cortland Alumni Science Symposium, Sept. 2021.*  
Judge, GISCI Map Contest, *GIS Certification Institute (GISCI) Map Competition, May 2021.*  
Moderator, Poster Session, *Transformations, Undergraduate Research Conf., SUNY Cortland, April 2021*  
Judge, Student STEM Entrepreneurship Contest, *Conrad Foundation Challenge, Sigma Xi, Jan. 2021.*  
Reviewer, Computer Science Category, *CUR Undergraduate Research Conference, Dec. 2020.*  
Judge, Behavioral & Social Sciences Category, *Sigma Xi Student Research Conference, November 2020.*  
Judge, Student Paper & Poster Contests, *Applied Geography Conference, October 2020.*  
Judge, GISCI Map Contest, *GIS Certification Institute (GISCI) Map Competition, May 2020.*  
Judge, Behavioral & Social Sciences Category, *Sigma Xi Student Scholars Symposium, May 2020.*  
Judge, Behavioral & Social Sciences Category, *Sigma Xi Student Research Nationals, May 2020.*

Co-Organizer, GIS Student Poster Awards, *NYS GIS Conference, Syracuse, NY, Sept. 2019.*  
 Judge, GISCI Map Contest, *GIS Certification Institute (GISCI) Map Competition, May 2019.*  
 Judge, Environmental Sciences Category, *Sigma Xi Student Research National Showcase, April 2018.*  
 Judge, Agriculture, Soils, Natural Resources Category, *Sigma Xi Student Research Showcase, April 2018.*  
 Reviewer, 3 Minute Thesis Contest, *Graduate Student Research Day, Drexel University, April 2017.*  
 Judge, Environmental Sciences Category, *Sigma Xi Student Research National Showcase, April 2017.*  
 Judge, Science and Engineering Category, *STAR Scholar Showcase, Drexel University, Aug. 2016.*  
 Judge, Environmental Sciences Category, *Sigma Xi Student Research National Showcase, March 2016.*  
 Judge, Undergraduate and Graduate Awards, *Association of American Geographers, January 2016.*  
 Judge, Environmental Science Category, *Student Research Day, Drexel University, April 2015.*  
 Judge, Information Science Category, *Student Research Day, Drexel University, April 2015.*  
 Judge, Geosciences Category, *Sigma Xi Student Research National Showcase, March 2015.*  
 Judge, Undergraduate and Graduate Awards, *Association of American Geographers, January 2015.*  
 Judge, Undergraduate and Graduate Awards, *Association of American Geographers, January 2014.*  
 Judge, Organizer, Graduate Paper & Poster Contests, *SEDAAG Meeting, Roanoke, VA, Nov. 18-20, 2013.*  
 Judge, Organizer, Prunty Undergraduate Scholarship, *SEDAAG Meeting, Roanoke, VA, Nov. 18-20, 2013.*  
 Organizer, Outstanding App and GIS Poster Contests, *NCAUG Meeting, Carolina Beach, NC, Oct. 2013.*  
 Judge, Organizer, Visualization Poster Contests, *Student Research Day, ASU, Boone, NC, April 18, 2013*  
 Judge, Moderator, Undergrad and Grad GIS Research, *NCGIS Conference, Raleigh, NC, February 2013*  
 Judge, Graduate Paper & Poster Contests, *SEDAAG Meeting, Asheville, NC, Nov. 18-20, 2012*  
 Judge, Prunty Undergraduate Scholarship, *SEDAAG Annual Meeting, Asheville, NC, Nov. 18-20, 2012*  
 Moderator, World Geography Bowl Competition, *SEDAAG Meeting, Asheville, NC, Nov. 18-20, 2012.*  
 Organizer, Outstanding App and GIS Poster Contests, *NCAUG Meeting, Carolina Beach, NC, Oct. 2012.*  
 Judge, Organizer, Visualization Poster Contests, *Student Research Day, ASU, Boone, NC, April 19, 2012*  
 Moderator, World Geography Bowl Competition, *SEDAAG Meeting, Savannah, GA, Nov. 20-22, 2011.*  
 Judge, Saarinen Graduate Research Paper Contest, *Association of American Geographers, April 2011.*  
 Judge, Outstanding Platform Talk Contest, *Carolinas SETAC Meeting, Boone, NC, March 24-26, 2011.*  
 Judge, Moderator, Undergrad and Grad GIS Research, *NCGIS Conference, Raleigh, NC, February 2011.*  
 Organizer, Judge, Undergraduate Poster Contest, *SEDAAG Meeting, Birmingham, AL, Nov. 21-23, 2010.*  
 Moderator, World Geography Bowl Competition, *SEDAAG Meeting, Birmingham, AL, Nov. 21-23, 2010.*  
 Organizer, Outstanding Poster Contest, *NCAUG Meeting, Carolina Beach, NC, Sept. 15-17, 2010.*  
 Judge, Organizer, Saarinen Research Paper Contest, *Environmental Perception and Behavioral Geography Specialty Group, Association of American Geographers, April 2010.*  
 Member, Undergraduate Research Contest Committee, *SEDAAG, Knoxville, TN, Nov. 22-25, 2009.*  
 Moderator, World Geography Bowl, *SEDAAG Meeting, Knoxville, TN, November 22-25, 2009.*  
 Judge, Moderator, Undergrad and Graduate GIS Research, *NCGIS Conference, Raleigh, NC, Feb. 2009.*

#### **Academic and Professional Conference Service [77]**

Organizer, Convenor, Pandemic Impacts on GIS Community Roundtable Session, *NYS GIS Association Annual Meeting, Sept. 2021.*  
 Organizer, Convenor, Annual Business Meeting, *NYS GIS Association Annual Meeting, Sept. 2021.*  
 Organizer, Convenor, GIS Profession Updates Session, *NYS GIS Association Annual Meeting, Sept. 2021.*  
 Organizer, Convenor, Keynote Address, *NYS GIS Association Annual Meeting, Sept. 2021.*  
 Chair, Quaternary and Recent Geology Session, *Northeast GSA Conference, March 2021.*  
 Facilitator, Brain Science Principles to Promote Active Learning with Ed Tech, *SENCER Conf., Jan. 2021*  
 Facilitator, Panel Discussions, *Narratives in Science, Mid-Atlantic SENCER Conf., Jan. 2021*

Organizer, Facilitator, GIS and UAS Workshop, *NYGeoCon NYS GIS Conference, Syracuse, NY, Sept. 2019.*

Organizer, Facilitator, GIS and Education Workshop, *NYGeoCon Conference, Syracuse, NY, Sept. 2019.*

Organizer, GIS Data Accuracy Workshop, *NYGeoCon NYS GIS Conference, Syracuse, NY, Sept. 2019.*

Organizer, Media Strategies for GIS Workshop, *NYGeoCon NYS GIS Conference, Syracuse, NY, Sept. 2019.*

Chair, GIS and Drones Session, *NYGeoCon, NYS GIS Conference, Syracuse, NY, Sept. 2019.*

Chair, Infrastructure GIS Applications Session, *NYGeoCon, NYS GIS Conference, Syracuse, NY, Sept. 2019.*

Organizer, GIS Posters Session, *NYGeoCon NYS GIS Conference, Syracuse, NY, Sept. 2019.*

Facilitator, Geoscience Information Society Business Meeting, *GSA Conference, Phoenix, AZ, Sept. 2019.*

Facilitator, Getting Faculty Onboard with OER Session, *SUNY CIT, Purchase, NY, May 2019.*

Facilitator, America's Education and Skills Crises Session, *SUNY CIT, Purchase, NY, May 2019.*

Co-Organizer, Changing Information Needs in the Geosciences, *GSA, Indianapolis, IN, Oct. 2018.*

Co-Organizer, Geoscience Information Needs in Education & Research, *GSA, Indianapolis, IN, Oct 2018.*

Organizer, Geoscience Information Vendor Update Session, *GSA, Indianapolis, IN, Oct. 2018.*

Facilitator, Micro-credentials Session, *SUNY CIT, Cortland, NY, May 2018.*

Facilitator, Immersive Learning IV Session, *SUNY CIT, Cortland, NY, May 2018.*

Organizer, Use of Geoscience Data and Information Resources in Education and Research Poster Session, *Geological Society of America, Seattle, WA, Oct. 2017.*

Organizer-Chair, Discovery and Preservation of Geoscience Data and Information Resources Session, *Geological Society of America, Seattle, WA, Oct. 2017.*

Co-Organizer, Co-Chair, What Can You Do with Geoinformatics?, *GSA, Seattle, WA, Oct. 2017.*

Co-Organizer, What Can You Do with Geoinformatics? Posters, *GSA Conference, Seattle, WA, Oct. 2017.*

Organizer-Chair, Open Access, Open Data Session, *Geological Society of America, Denver, CO, Sept. 2016.*

Organizer, Use of Geoscience Data Resources in Education and Research, *GSA, Denver, CO, Sept. 2016.*

Convener, Awards Banquet, *SEDAAG Meeting, Roanoke, VA, Nov. 18-20, 2013.*

Chair, Water Resources I Session, *Applied Geog. Conference, Annapolis, MD, Oct. 30-Nov. 1, 2013.*

Organizer, Coupled Human and Natural Systems Workshop on Modeling Exurban Development and Ecosystem Services, *Southern Research Station, USFS, Asheville, NC, June 2013.*

Organizer-Chair, Environmental Sustainability & Resilience Session, *AAG, Los Angeles, CA, April, 2013.*

Chair, Landscapes, Real and Imagined Session, *Appalachian Studies Conference, Boone, NC, March 2013.*

Chair, Undergraduate GIS Research Awards Session, *NCGIS Conference, Raleigh, NC, Feb, 2013.*

Organizer-Chair, GIS and Environmental Decision-making II: Land Use Session, *SEDAAG, Nov. 2012.*

Organizer, GIS and Environmental Decision-making I: Sustainability Session, *SEDAAG, Nov 2012.*

Organizer-Chair, GIS Posters and Mobile Apps Sessions, *NCAUG, Carolina Beach, NC, Oct. 23-24, 2012.*

Chair, GIS in Government Session, *NCAUG Meeting, Carolina Beach, NC, Oct. 23-24, 2012.*

Organizer-Chair, GIS Mapping Poster Session, *NCAUG Meeting, Carolina Beach, NC, Oct. 23-24, 2012.*

Chair, Modeling with GIS and Remote Sensing, *Applied Geography, Minneapolis, MN, Oct. 10-12, 2012.*

Convener, GIS and Disasters Roundtable, *Natural Hazards Workshop, Broomfield, CO, July 14-17, 2012.*

Organizer-Chair, Environmental Sustainability and Behavior Session, *AAG, New York, NY, Feb. 2012.*

Chair, Crime Analysis Session, *Applied Geography Conference, Redlands, CA, October 19-22, 2011.*

Chair, Student GIS Research Awards, *NCAUG Meeting, Carolina Beach, NC, September 14-16, 2011.*

Convener, GIS and Disasters Roundtable, *Natural Hazards Workshop, Broomfield, CO, July 10-12, 2010.*

Organizer-Chair, Perception of Environment and Risk Session, *AAG, Seattle, WA, April 12-16, 2011.*

Organizer, Cartographic Design and 3D Geovisualization Session, *AAG, Seattle, WA, April 12-16, 2011.*

Organizer-Chair, Poster Session, *Carolinas Society of Environmental Tox and Chemistry, March 2011.*

Chair, Undergraduate GIS Research Session, *NCGIS Conference, Raleigh, NC, February 17-18, 2011.*

Participant, Sustainably Integrated Building and Sites Center Workshop, *Charlotte, NC, Dec. 2-3, 2010.*

Organizer, Classification of Social and Natural Landscapes Session, *SEDAAG, Birmingham, AL, Nov. 2010*

Chair, Urban Geography Session, *Applied Geog. Meeting, Ft. Worth, TX, Oct. 20-23, 2010.*

Chair, Interpreting the Map Session, *NACIS Meeting, St. Petersburg, FL, Oct. 13-15, 2010.*

Chair, Undergraduate and Graduate GIS Research, *NCAUG Meeting, Carolina Beach, NC, Sept. 15, 2010.*

Chair, GIS Mapping Poster Session, *NCAUG Meeting, Carolina Beach, NC, Sept. 15-17, 2010.*

Chair, Landscape and Environment 1: Environmental Planning and Change, *AAG, Wash, DC, March 2010.*

Chair, Spatial Analysis IV: Personal Behavior Session, *AAG, Washington, DC, March 22-27, 2010.*

Co-Organizer, Poster Madness Session, *SEDAAG, Knoxville, TN, Nov. 22-25, 2009.*

Chair, Biogeography Session, *Applied Geography Meeting, Baton Rouge, LA, Oct. 28-30, 2009.*

Organizer-Chair, Multimedia, GIS, and Service Learning in Regional Geography Session, *National Council of Geographic Education Conference, San Juan, PR, September 23-27, 2009*

Chair, GIS in Planning Session, *NCAUG Meeting, Carolina Beach, NC, Sept. 16-18, 2009.*

Organizer-Chair, Gender and Environmental Decision-making Session, *Southeastern Women's Studies Association Conference, Boone, NC, April 2-4, 2009*

Chair-Discussant, Greening the Campus Panel Session, *AAG, Las Vegas, NV, March 22-27, 2009.*

Organizer-Chair, Rural and Exurban Dynamics II, *AAG, Las Vegas, NV, March 22-27, 2009.*

Organizer, Rural and Exurban Dynamics I, *AAG, Las Vegas, NV, March 22-27, 2009.*

Chair-Discussant, Urban-Rural Dynamics Session, *SEDAAG, Greensboro, NC, November 22-25, 2008.*

Chair, GIS in Academic Research Session, *NCAUG, Carolina Beach, NC, September 17-19, 2008.*

Chair, Crime and Policy Analysis Sessions, *NC Criminal Justice Association, Boone, NC, April 4-5, 2008.*

Chair-Discussant, Environmental Management Session, *SEDAAG, Charleston, SC, November 18-20, 2007.*

Chair, Technology and Society Session, *Middle States AAG, Villanova University, PA, October 2004.*

Discussant, GIS and Crime Analysis Session, *AAG, Philadelphia, PA, March 2004.*

Organizer-Chair, GIS Session, *Northeast American Indian Science and Engineering Society (AISES) Meeting, Daemen College, Amherst, NY, March 2004.*

Facilitator, Online Learning Systems Session, *SUNY CIT Potsdam, NY, May 2003.*

Rapporteur, Spatialization Session, *UCGIS Summer Assembly, Athens, GA, July 2002.*

Rapporteur and Presenter, Spatial Data Mining Session, prepared *Summary Report on Spatial Data Mining, UCGIS Summer Assembly, Buffalo, NY, July 2001.*

Participant, *University Consortium on GIScience (UCGIS) Summer Assembly, Mt. Hood, OR, June 2000.*

Invited Participant, *National Imagery and Mapping Agency (NIMA) University Research Initiatives (NURI) Symposium, Reston, VA, Summer 2000.*

## **PART 7. UNIVERSITY SERVICE**

### **State University of New York (SUNY) System Wide Service**

Senator, SUNY University Faculty Senate, 2021-.

Senator, SUNY University Faculty Senate (alt.), 2019, 2020, 2021.

Member, SUNY University Faculty Senate, Programs & Awards Committee, 2020-.

Member, SUNY University FACT2 Online Student Engagement Task Group, 2020-2021.

Member, SUNY University FACT2 In-Course Assessment Task Group, 2020-2021.

Reviewer, SUNY Innovative Instruction Technology Grant Proposals, Provosts Office, 2018, 2019, 2020

Reviewer, SUNY Conference on Instruction & Technology (SUNYCIT), 2018, 2019, 2020, 2021.

Delegate, United University Professions (UUP), SUNY Cortland Chapter, 2021-.

### **University and College Service**

Senator, State University of New York (SUNY) Faculty Senate for SUNYC, 2021-.

Senator, State University of New York (SUNY) Faculty Senate (alt.) for SUNYC, 2019, 2020, 2021.

Member, Steering Committee, Faculty Senate, 2021-

Senator, Social & Behavioral Sciences, College of Arts & Sciences, Faculty Senate, 2018, 2019, 2020, '21.

Delegate, United University Professions (UUP), SUNY Cortland Chapter, 2021-.

Member, Transformations, Undergraduate Research and Creative Works Conference Committee, 2021-

Chair, University Graduate Faculty Executive Committee, Faculty Senate, 2020.

Member, University Graduate Faculty Executive Committee, Faculty Senate, 2019, 2020, 2021.

Member, University Green Ambassadors, Sustainability Office, 2020-

Chair, College of Arts & Sciences Sub-school Personnel Committee, 2021.

Member, College of Arts & Sciences Sub-school Personnel Committee, 2020-2021.

Member, University Alumni Science Symposium Committee, 2019-.

Member, College of Arts & Sciences Curriculum Committee, 2019-2020.

Member, Faculty Advisory Panel, Institute for Civic Engagement, 2018-.

Mentor, Cortland Applied Learning Practitioner Program, Institute for Civic Engagement, 2018-2019.

Member, Civic Engagement Awards Committee, Institute for Civic Engagement, 2018.

Member, Cortland Votes Working Group, Institute for Civic Engagement, 2018-.

Member, Campus Tree Advisory Committee, 2018-.

Member, Entrepreneurship Curriculum Committee, 2017-.

Organizer & Convener, University Research Data Forums, 2015-2016.

Designated Representative, ICPSR Institutional Membership, 2015, 2016, 2017.

Co-Organizer, University GIS Users Group, 2015, 2016, 2017.

Administrator, Data Management Planning Tool, 2015, 2016, 2017.

Administrator, EZID DOI Services, 2015, 2016, 2017.

Organizer, Campus Data Exploratorium, 2016, 2017.

Member, Advisory Committee, Research Institute for Environment, Energy, and Economics, 2013.

Member, External Grant Resources and Services Review Committee, 2013.

Member, Informatics and eScience Task Force, 2013.

Member, Social Sciences Faculty Coordinating Committee, General Education, 2013.

Member, Local to Global Faculty Coordinating Committee, General Education, 2013.

Chair, Student Research Computation and Visualization Research Awards Committee, 2012, 2013.

Chair, Computation and Visualization Lab Steering Committee, 2010-2013.

Chair, Regions in a Global Context Theme General Education Committee (ad hoc), 2008.

Member, Office of Student Research (OSR) Advisory Board, 2012-2013.

Member, Office of Student Research (OSR) Conference Outstanding Research Awards Committee, 2012.

Member, Honors College Advisory Council, 2010-2013.

Member, Visualization and High Performance Computing Lab Committee, 2009-2010.

Member, Energy Center Student Research Grants Committee, 2010.

Member, Global Studies Curriculum Committee, 2010-2012.

Member, Global Studies Departmental Personnel Committee, 2009-2010.

Member, Internship Advisory Council, 2009-2013.

Member, Nature Preserve Advisory Council, 2009-2011.

Member, High Performance Computing Task Force, 2008-2009.

Member, UNC-Brazil Academic Partnership Delegation, 2008-2009.

Member, International Committee, 2008-2010.

Member, International Sciences Committee, 2008-2009.  
Member, Cultural Diversity Theme Committee, General Education (ad hoc), 2008.  
Member, Renewable Energy Initiative (REI) Council, 2007-2010.

#### **Internal Research Grants & Awards Review Service**

Community Engagement and Service Awards, Institute for Civic Engagement, SUNY Cortland, Spr. 2021.  
Graduate Research Grant Proposals, Graduate Faculty Executive Committee, SUNY Cortland, Fall 2019.  
Community Engagement and Service Awards, Institute for Civic Engagement, SUNY Cortland, Spr. 2019.  
Junior Faculty Awards, Oak Ridge Associated Universities (ORAU) Powe Awards, ASU ORSP, Fall 2013.  
Research Cluster Grants (7), Research Institute on Energy, Environment, and Economics, ASU, Spr. 2013.  
Undergraduate Research Assistant (URA) Grant Proposals (28), Office of Student Research, Fall 2012  
Undergraduate and Graduate Student Research and Travel Grant Proposals (133), OSR, ASU, Fall 2012.  
Undergraduate and Graduate Student Research Grant Proposals (15), ASU Energy Center, Fall 2010.  
Request for Qualification Proposals (7), Raley Hall Photovoltaic (PV) Array Project, ASUREI Renewable Energy Initiative, Appalachian State University, August 2007.  
Graduate Student Research Grant Proposals (32), Mark Diamond Graduate Research Fund Committee, University at Buffalo, SUNY, Summer 2002, Fall 2002, Fall 2004.

#### **Personnel Search and Review Committee Service [15]**

Member, Director of Development, Institutional Advancement, Search Committee, 2021.  
Member, GIS Position Third-Year Review, 2021.  
Member, GIS Position Search Committee, 2017-2018.  
Member, Business and Economics Librarian Position Search Committee, 2017.  
Member, Business and Economics Librarian Position Search Committee, 2016.  
Member, Physical Geography Position Promotion and Tenure Review, 2013.  
Member, Environmental Science Position Search Committee, 2013.  
Member, Physical Geography Position Third-Year Review, 2012.  
Member, Human Geography Position Search Committee, 2011-2012.  
Member, Department Chair Position, Geography Department Search Committee, 2010-2011.  
Member, Department Chair Position, Geography Department Search Committee, 2009-2010.  
Chair, GIS Laboratory Coordinator Position Search Committee, 2008-09.  
Member, Community and Regional Planning Position Search Committee, 2008.  
Member, GIS Laboratory Coordinator Position Search Committee, 2007-08.  
Member, GIS Position Search Committee, Graduate Representative, 2001.

#### **Departmental Committee Service**

Dept. Rep., College of Arts & Sciences Sub-school Personnel Committee, 2020, 2021.  
Member, Student Awards Committee, 2022.  
Chair, Student Awards Committee, 2021.  
Chair, Curriculum Committee, 2020-.  
Member, Departmental Personnel Committee, 2020-.  
Member, Student Learning Outcomes (SLO) Committee, 2018-.  
Member, Curriculum Committee, 2018-.  
Presenter, Honors Convocation, 2018, 2019.  
Rep., College Open House, 2018, 2019.  
Advisor, GIS Undergraduate Majors, 2018-.

Manager, SUNY Cortland GIS Alumni Group, LinkedIn [50+ members], 2018-.  
 Organizer, ESRI GIS Presentation Series, 2011-2013.  
 Co-Author, Faculty Merit Pay Evaluation Policy, 2013.  
 Chair, Merit Pay Committee, 2011, 2012, 2013.  
 Chair, Gamma Theta Upsilon (GTU) Geography Honor Society Committee, 2011-2013.  
 Chair, Computing and Classroom Equipment Committee, 2011-2013.  
 Chair, Speaker Series Committee, 2009-2010.  
 Chair, Computing Committee, 2008-2011.  
 Chair, Map Library Committee, 2005-2011.  
 Advisor, GIS Graduate Certificate Students, 2008-2013.  
 Advisor, Geography (GIS Concentration, Planning Concentration) Graduate, 2006-2013.  
 Advisor, Geography (GIS) Undergraduate Majors and GIS Minors, 2005-2013.  
 Member, Geography and Planning Programs Assessment Committee, 2011-2013.  
 Member, Map Library Committee, 2011-2013.  
 Member, Departmental Personnel Committee, 2008-2009, 2013.  
 Member, Undergraduate and Graduate Awards and Honors Committee, 2008-2010.  
 Member, Graduate Certificate in GIScience Curriculum Committee, 2006-2007.  
 Member, Library Committee, 2005-2010.  
 Member, Computing Committee, 2005-2008.  
 Co-Organizer, Department of Geography Colloquium Series, 2001 - 2002.  
 Co-Organizer, University IGERT in GIScience Colloquium Series, 2001 - 2002.

#### **Assessment and Curriculum Development Service**

Reviewer, Student Learning Outcomes (SLOs) Assessment, Writing Intensive Courses, General Education Committee, SUNY Cortland, May 2021.  
 Reviewer, Student Learning Outcomes (SLOs) Assessment, Geography Courses, SUNY Cortland, 2021, 22.  
 Reviewer, Student Learning Outcomes (SLOs) Assessment, Scientific and Quantitative Literacy Courses, St. John Fisher College, December 2020.  
 Reviewer, Curriculum Changes and Student Learning Outcomes (SLOs), University Graduate Faculty Executive Committee, SUNY Cortland, January 2019-present.  
 Reviewer, Curriculum Changes and Student Learning Outcomes (SLOs), College of Arts & Sciences Curriculum Committee, SUNY Cortland, January 2019-May 2020.  
 Developer, New Courses, Geography Department: *Web GIS, Environmental Remote Sensing, Environmental Geography of the Adirondacks, Climate Change and Urban Sustainability*.  
 Facilitator, *Summer Reading Program*, General Education, TCNJ, August 2014.  
 Evaluator & Contributor, *Geography Program Assessment and Evaluation Report*, Department of Geography and Planning, ASU, 2011, 2012, 2013.  
 Developer, *Undergraduate Geography Major Assessment Artifact Assignments*, Department of Geography, for General Education Assessment, ASU, November 2010.  
 Co-author, Curriculum Proposals, Department of Geography and Planning, ASU, Fall 2006-Spring 2007. *Undergraduate GIS Certificate, Geographic Information Science Graduate Certificate, MA Geography Graduate Concentration in Geographic Information Science*.  
 Panelist, *Research on Impacts of Study Abroad Programs*, International Programs, ASU, January 2008.  
 Invited Interviews, *Doctoral Education, National Science Foundation*, June 2007, June 2008  
 Invited Interview, *AAG Enhancing Departments and Graduate Education (EDGE) Project*, Fall 2006.  
 Peer Teaching Evaluations (11), Department of Geography and Planning, ASU, Fall 2005-2013.



Co-Author, *IGERT Doctoral Students Summary Report, NSF IGERT in GIScience Advisory Board Meeting*, University at Buffalo, SUNY, 2001.

### **International University and Research Collaboration**

Belize, Host, Center for Engaged Learning Abroad (CELA) Staff, San Ignacio, Feb 2020.  
Italy, Visitor, Rome, Pompeii, Naples, Vesuvius National Park, Sorrento, Amalfi, Salerno, August 2019.  
Spain, Visitor, Seville, Alcazar, Granada, Alhambra, June 2018.  
Portugal, Visitor, Lisbon, Porto, Douro Valley, Sintra-Cascais National Park, June 2018.  
Belize, Visitor, Belize Zoo & Tropical Education Center, Belmopan, San Ignacio, San Pedro, Jan. 2018.  
Belize, Host, Belize Zoo & Tropical Education Center Research and Education Staff, Fall 2017.  
South Africa, Host, Geography Department Faculty, University of the Free State, Fall 2012.  
Guatemala, Visitor, University del Valle, Guatemala City, Spring 2011.  
Mexico, Visitor, University of Quintana Roo, Chetumal, Spring 2011.  
Tunisia, Participant, Speaker, International Geographical Union (IGU) Meeting, Tunis, August 2008.  
Brazil, Visitor, UNC-Brazil Exchange Delegation, Fortaleza, Belo Horizonte, Sao Paulo, July 2008.  
Chile, Visitor, Elqui Valley, Santiago, Valparaiso, May 2007.  
Chile, Participant, Speaker, AAG Geography in the Americas Conference, La Serena, May 2007.  
Dominican Republic, Faculty Leader, Alternative Spring Break, San Juan, Santo Domingo, March 2007.  
Mexico, Visitor, Sian Kaa'n Biosphere Reserve, Tulum, Cancun, January 2007.  
Italy, Participant, Vespucci International Summer School on GIScience, Fiesole, Florence, Pisa, July 2005.  
Brazil, Visitor, INPE, Brazilian Space Agency, Sao Jose dos Campos, December 2004.  
Brazil, Visitor, Sociology Department, University of Sao Paulo, December 2004.  
Brazil, Host, Law Enforcement Delegation, Curitiba, Fall 2004.  
Guatemala, Visitor, University of San Carlos and University del Valle, Guatemala City, Antigua, Spr 2001.

### **PART 8. EDUCATIONAL OUTREACH AND COMMUNITY SUSTAINABILITY SERVICE**

Invited Moderator, Roe v. Wade Community Deliberative Dialog, Cortland, NY, June 2021.  
Invited Moderator, Costs of Health Care Community Deliberative Dialog, Cortland, NY, March 2021.  
Cartographic Designer, Canandaigua Lake Watershed Association, NY, April 2020-  
Member, Comprehensive Plan Visioning Committee, Town of Canandaigua, NY, Dec. 2019-  
Co-Leader, Village of Homer Community Tree Survey, Homer, NY, September – December 2019.  
Participant, Finger Lakes PRISM, Finger Lakes Institute, HWS Colleges, Nov. 2019-  
Member, Cortland Climate Smart Community Task Force, Cortland, NY, Oct. 2019-  
Host, Technology Start-up Tour for City of Syracuse HS, Tech Garden, Syracuse, NY, Sept. 2019.  
Facilitator, Community Drone Demonstration, Drones over Downtown, Syracuse, NY, Aug. 2019.  
Information Provider, SUNY Cortland GIS Program, Drones over Downtown, Syracuse, NY, Aug. 2019.  
Information Provider, GIS Day Activities, SUNY Cortland, NY, November, 2018.  
Invited Participant, Climate-Enhanced Extreme Weather Community Dialog, Cortland, NY, Oct. 2018.  
Member, NYS DEC Southeast Lake Ontario Watershed Sub-basin Working Group, NY, Jan. 2018 - .  
Interviewer, Regional Network Applicants, Environmental Leadership Program, Jan. – Feb., 2018.  
Information Provider, SUNY Cortland GIS Program, Drones over Downtown, Syracuse, NY, Aug. 2017.  
Facilitator, Reviewer, Start Talking Science, a public science conference, Philadelphia, PA, 2016, 2017.  
Invited Speaker, GIS Careers, Conservation Corps of American Littoral Society, Bridgeton, NJ, Aug. 2016.  
Invited Speaker, GIS Day Activities, Drexel University, Philadelphia, PA, Nov. 2015.  
Presenter, NJ Coastal Flood Risk Maps, Sustainable Jersey, Brigantine, NJ, Aug. 2014.  
Reviewer, Flood Mitigation Municipal Actions, Sustainable Jersey, Ewing, NJ, 2014.

Member, South Jersey Hub, Sustainable Jersey, Cherry Hill, NJ, 2014.

Member, Stormwater Management Committee, NJ Association of State Floodplain Managers, 2014.

Developer, GIS Database, New River Conservation GIS Database, National Committee for the New River, West Jefferson, NC, 2012 - 2013.

Designer, Cartography and GIS Animation, Blood, Sweat, Gears Bicycle Race Benefit for American Red Cross, Watauga County Chapter, Boone, NC, June 2009, June 2010, June 2011.

Participant, Emergency Plans and Operations Regional Flood Community Exercise, Boone, NC, Spr. 2011.

Invited Moderator and Judge, North Carolina National Geographic Bee, sponsored by North Carolina Geographic Alliance, National Geographic and Google, Lenoir, NC, April 2010.

Representative, Western North Carolina, NC HAZUS User Group, sponsored by FEMA, 2009-2013.

Invited Panelist, ASU Wind Turbine Public Information Forum, Boone, NC, March, 2009.

Invited Moderator and Judge, North Carolina National Geographic Bee, Sponsored by North Carolina Geographic Alliance, National Geographic and Google, Raleigh, NC, April, 2009.

Participant, Association for Advancement of Sustainability in Higher Ed Conference, Raleigh, NC, 2008

Presenter, Using Google Earth and Web Mapping, Ashe County Public Schools TRAC Program, Ashe County Cooperative Extension, Boone, NC, July 2008.

Trainer, GPS in Earth Science, Watauga High School, Boone, NC, May 2008.

Host and Presenter, Majoring in GIS and Geography, for Ashe County Public Schools TRAC Program, Ashe County Cooperative Extension, NC, April 13, 2007, and March 28, 2008.

Web Editor, ESRI GIS Community Atlas: Wilkes Central Middle School 4-H (NC), Spring 2007.

Team Member, ASU-Watauga High School, SuperComputing Education Program, Tampa, FL, 2006.

Instructor, Geography in Action GIS Day Workshops, for Watauga High School, Oct. 20, 2006.

Workshop Participant and Instructor, Visualization and Computing Teachers' Workshop, Mathematics and Science Education Center, Appalachian State University, Boone, NC, June 26-28, 2006.

Consultant and Workshop Developer, ESRI 4-H GIS Grant Program, Wilkes County Cooperative Extension, Wilkesboro, NC, Spring/Summer 2006.

Cartographer, University District Buffalo Garden Walk Tour, University-Community Initiative, University at Buffalo, Buffalo, NY, Spring 2005.

Information Provider, GIS Day Activities, University at Buffalo, SUNY, Nov. 2003.

Information Provider, GIS Day Activities, University at Buffalo, SUNY, Nov. 2002.

Presenter, Majoring in Geography, EOP Office Public High School Visit Day, SUNY Buffalo, Spring 2001.

## **PART 9. MEDIA COVERAGE**

*Appalachian Connections, Appalachian Scene, Appalachian Today, Association of American Geographers (AAG) Newsletter, Blowing Rock News, Cortland Cause, Cortland Standard, Cortland Voice, Counter Currents, Directions Magazine, Geoscience Information Society Newsletter, Grants in Action - St. John Fisher College Sponsored Programs Newsletter, High Country Press, Integral GIS, Lenoir News-Topic, Mountain Times, New River News, New York State GIS Association Newsletter, New York State GIS Association YouTube Channel, North Carolina ArcGIS Users Group Newsletter, Phi Kappa Phi Forum, Sigma Xi Keyed In, SUNY Cortland Bulletin, Southeastern Division AAG Newsletter, The Umbrella - SUNY Applied Learning Newsletter, University at Buffalo Compass, University at Buffalo Reporter, URISA News, WBTU-Charlotte, WSUC-Cortland NPR, Wilkes Journal-Patriot, Winston-Salem Journal.*