

## John D. Morgan, Ph.D., GISP

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### Research Specialization

My research focuses on the visual and exploratory methods of geographical information science with applications to topics within the domain of urban geography (public safety, health, and urban governance). Specifically, this work has focused on the design and implementation of map usability studies, participatory mapping as an assessment of place experience/perception, application/design of web GIS, and the exploratory spatial analysis of the relationships between law and property.

### Education

- 2005-10 Florida State University, Tallahassee, FL: Department of Geography, *Doctorate of Philosophy* in Geography *Dissertation: A visual time-geographic approach to crime mapping*
- 1998-01 University of Central Florida, Orlando, FL: Department of Management, *Master of Science* in Management (Management Information Systems Track), Deans List
- 1995-98 University of Central Florida, Orlando, FL: Department of Economics, *Bachelor of Arts* in Economics with a *Minor* in Applied Computer Science, Deans List

### Positions and Employment

- 2015- *Assistant Professor of GIS* at The University of West Florida within the Department of Earth and Environmental Sciences
- 2011-15 *Senior Research Scientist/Applied Research Software Designer* at The University of North Carolina at Asheville's National Environmental Modeling and Analysis Center (NEMAC)
- 2010-11 *GIS Web Developer* at Florida House of Representatives
- 2009 *GIS Web Developer* at Citizens Property Insurance
- 2008 *Web Developer* at The University of Tampa
- 2004-08 *IT Manager/Web Developer* at Florida State University's International Programs
- 1998-03 *Systems Engineer/Analyst* at Siemens Westinghouse Power Corporation

### Teaching

- 2018 *Spatial Data Management* - Graduate at the University of West Florida (online)  
*Special Topics in GIS* - Graduate at the University of West Florida (online)  
*GIS Management* - Graduate at the University of West Florida (online)  
*GIS Communication* - Graduate at the University of West Florida (online)  
*GIS Programming* – Graduate/undergraduate at the University of West Florida (online)  
*Advanced Topics in GIS* - Graduate at the University of West Florida (online)
- 2017 *Cartographic Skills* - Undergraduate at the University of West Florida (classroom)  
*Special Topics in GIS* - Graduate at the University of West Florida (online)  
*GIS Management* - Graduate at the University of West Florida (online)  
*GIS Communication* - Graduate at the University of West Florida (online)  
*GIS Capstone* - Graduate at the University of West Florida  
*GIS Programming* – Graduate/undergraduate at the University of West Florida (online)  
*Advanced Topics in GIS* - Graduate at the University of West Florida (online)
- 2016 *Cartographic Skills* - Undergraduate at the University of West Florida (classroom)  
*Special Topics in GIS* - Graduate at the University of West Florida (online)  
*GIS Management* - Graduate at the University of West Florida (online)  
*GIS Programming* – Graduate/undergraduate at the University of West Florida (online)  
*Advanced Topics in GIS* - Graduate at the University of West Florida (online)  
*GIS Applications* - Graduate at the University of West Florida (online)

- 2015 *GIS Capstone* - Graduate at the University of West Florida  
 2015 *GIS Communication* - Graduate at the University of West Florida (online)  
*Directed Independent Study* - Graduate at the University of West Florida (online & classroom)  
 2015 *GIS Programming* - Graduate/undergraduate at the University of West Florida (online)  
 2015 *Tools for Climate Change Information and Decision Making* - Graduate at the University of North Carolina at Asheville (classroom)  
 2014 *GIS Programming* - Graduate/undergraduate at the University of West Florida (online)  
 2013 *Tools for Climate Change Information and Decision Making* - Graduate at the University of North Carolina at Asheville (classroom)  
 2011-12 *Computer Cartography* - Graduate/undergraduate at Florida State University (online)  
 2010-11 *World Regional Geography* - Undergraduate at Florida State University (classroom)  
 2007 *GIS Customization* - Graduate seminar at Florida State University (classroom)

### Peer-reviewed Publications

- 2018 Morgan, J.D. and Evans, J. (2018). Aggregation of Spatial Entities and Legislative Redistricting. *The Geographic Information Science & Technology Body of Knowledge* (2nd Quarter 2018 Edition), John P. Wilson (ed.). DOI:10.22224/gistbok/2018.3.6  
 2018 Ilunga Tshiswaka, D., Ibe-Lamberts, K., Fazio, M., **Morgan, J. D.**, Cook, C. & Memiah, P. (2018). Determinants of stroke prevalence in the southeastern region of the United States. *Journal of Public Health*, Springer Nature. DOI: 10.1007/s10389-018-0974-9  
 2018 Evans, J., Evans, S. Z., **Morgan, J. D.**, Snyder, J. A. & Abderhalden, F. P. (2018): Evaluating the quality of mid-sized city parks: a replication and extension of the Public Space Index, *Journal of Urban Design*, DOI: 10.1080/13574809.2017.1411185  
 2017 Morgan, J. D., Snyder, J. A, Evans, S. Z., Evans, J. & Greller, R. (2017): Mapping Perceptions of Safety in Parks. *The Florida Geographer*. Volume 49  
 2017 Ray Eslinger & John Derek Morgan (2017) Spatial Cluster Analysis of High-Density Vehicle–Bear Collisions and Bridge Locations, *Papers in Applied Geography*, 3:2, 171-181, DOI: 10.1080/23754931.2017.1299633  
 2016 D. Morgan, J. (2016), A User-centered Design for the Addition of Interactive Masking Capability within an existing Web GIS. *Trans. in GIS*, 20: 807-816. doi:10.1111/tgis.12197  
 2013 Morgan J.D., Steinberg P.E. (2013) Testing the Usability of Time-Geographic Maps for Crime Mapping. In: Leitner M. (eds) *Crime Modeling and Mapping Using Geospatial Technologies. Geotechnologies and the Environment*, vol 8. Springer, Dordrecht  
 2009 Morgan, J. D. (2009). A Visual Time Geographic Approach to Crime Event Profiling. *Crime Mapping: A Journal of Research and Practice* Volume 1 Issue 2

### Peer-reviewed Conference Proceedings

- 2018 Snider, D., **Morgan, J. D.**, Schwartz, M., Adkison, A. & DeliKarl, J. P. “An Online Analytical Processing Database for Environmental Water Quality Analytics”, Short paper and poster presented at IEEE SoutheastCon 2018, St. Petersburg, FL, April 2018  
 2012 Morgan, J. D., Hutchins, M. W., Fox, J. F. & Rogers, K. L. (2012). A Methodological Framework focused on integrating GIS and BBN Data for Probabilistic Map Algebra Analysis. *Extended Abstracts Volume, GIScience 2012*, Columbus.  
 2010 Morgan, J. D. (2010). Testing the Usability of Time-Geographic Maps. Zurich, Switzerland. *Extended Abstracts Volume, GIScience 2010*, Zurich.

### Presentations/Workshops/Panels

- 2018 Tomkins, K., Hughes, M., Simmons, H., Brown, M. & **Morgan, J. D.** “Ideas for Integrating Budget Friendly GIS Hardware and Software Options: An Interactive Panel Discussion” panel member at GIS of Alabama Conference 2018, Orange Beach, AL.  
 2018 Adkison, A. & **Morgan, J. D.** “Citizen Science Data & Web Mapping”, Invited presentation at *Escambia County FL GIS Users Group* Quarter 1 Meeting. March 2018  
 2018 Morgan, J. D. Hackathon Participant at the *Austin Gerrymandering Workshop* a regional site of the *Geometry of Redistricting* workshop cycle. 1-4 February 2018

- 2018 Alibasic, H., **Morgan, J. D.**, Douthat, T. H., & Grant, A. "Urban form and Residential Housing Efficiency: Creating a Parametric and a Causal Model of Building". *Southern Political Science Association (SPSA), New Orleans*. 5 January, 2018
- 2017 Morgan, J. D. Coffey, J. W. & Eddy, B. P. "A Pilot Study in Concept Map-based Knowledge Modeling". *Seven Hills Regional User Group for GIS (SHRUG), Tallahassee*. 8 November, 2017
- 2017 Morgan, J. D., Evans, J., Evans, S. Z., & Snyder, J.A. "Mapping Perceptions of Safety in City Parks". *North American Cartographic Information Society (NACIS)*. Montreal, Canada
- 2017 Morgan, J. D. Coffey, J. W. & Eddy, B. P. "Concept mapping Web GIS". *Northwest Florida GIS Users Group Spring 2017 Meeting*. Destin, FL
- 2017 Morgan, J. D. "Mapping Perceptions of Safety in City Parks". 28th International Cartographic Conference of the *International Cartographic Association*. July 2017 (accepted abstract, unable to attend to present)
- 2016 O'Dare Wilson, K., Bloechle, A., Fazio, M. & **Morgan, J. D.** "Where's the Food? Refining food desert measures to more accurately reflect local access to healthy food, and incidence of diet-related disease deaths". Poster presentation at 2016 *Florida Health Association (FHPA)* conference at the Florida State University College of Medicine
- 2016 Eslinger, R. & Morgan, J. D. High Density Vehicle-Bear Collisions and Bridge Locations. 2016 Applied Geography Conference, Louisville, KY
- 2016 Morgan, J. D. "Mapping Property Rights Tension for Ecosystem Services within Coastal Communities". *Association of American Geographers (AAG), San Francisco*. 1 April 2016.
- 2015 Morgan, J. D. "A Bayesian Network Approach to Exploring Coastal Home Values Given Hurricane Evacuation Zone Change and the Influence of Coastal Amenities". *Southeast Division of Association of American Geographers (SEDAAG), Pensacola*. 19 November 2015.
- 2015 Morgan, J. D. "A Bayesian Network Approach to Exploring Coastal Home Values Given Hurricane Evacuation Zone Change and the Influence of Coastal Amenities". *Seven Hills Regional User Group for GIS (SHRUG), Tallahassee*. 11 November 2015.
- 2015 Morgan, J. D. "A Web Application and Subscription Service for Landsat Forest Area Change Tools (LandsatFACT)". *North Carolina GIS Conference, Raleigh*. 25-27 February, 2015
- 2014 Morgan, J. D. "A User-centered Design for Interactive Raster Masking Capability within Web GIS". *FOSSAG 2014 Conference, Portland*. 9-13 September, 2014
- 2013 Morgan, J. D. "Reengineering WebGIS: An OpenLayers Case Study". *North Carolina GIS Conference, Raleigh*. 7-8 February, 2013
- 2013 Dobson, J.G., **Morgan, J. D.**, Kunkel, K.E & Stevens L.E. "The Use of GIS and Python Scripting for Processing and mapping National and Regional Climate Data Simulations". *American Meteorological Society (AMS) Annual Meeting, Austin*. 6-10 January 2013.
- 2012 Morgan, J. D., Hutchins, M.W., Fox, J.F. & Rogers, K.L. "Integrating GIS and BBNs for Exploratory Analysis of Environmental Data and Decision Making". *Southeast Division of Association of American Geographers (SEDAAG), Asheville*. 19 November 2012.
- 2011 Morgan, J. D. "Web Map Development w/ Bing, Silverlight and MS SQL Server". *Seven Hills Regional User Group for GIS (SHRUG), Tallahassee*. 11 March 2011.
- 2010 Morgan, J. D. "Time Geography and the Challenge of Mobility in Crime Mapping". *Association of American Geographers (AAG), D.C.* 15 April 2010.
- 2009 Morgan, J. D. "Modeling Victim Space-Time Paths". *The International Association of Crime Analysts (IACA) and the Arizona Association of Crime Analysts (AACAA), Scottsdale*. 12-15 October 2009.
- 2009 Morgan, J. D. "A Time Geographic Approach to Crime Mapping". *National Institute of Justice Mapping and Analysis for Public Safety (MAPS), New Orleans*. 19-22 August, 2009
- 2007 Morgan, J. D. "Cartographic Visualization of Reported Fraud across Florida". *Florida Society of Geographers (FSG), Jacksonville*. 9-11 February 2007
- 2007 Morgan, J. D. "Visualizing Cases of Internet Fraud with Collaborative Crime Mapping". *National Institute of Justice Mapping and Analysis for Public Safety (MAPS), Pittsburgh*. 28-31 March 2007.
- 2006 Morgan, J. D. "Saint Augustine's Historic Identity: Separating the Authentic from the Tourist Trap at the Nation's Oldest City". *South-Eastern Division of the Association of American Geographers (SEDAAG), Morgantown*. November 18-22, 2006

## Contracts/Grants

- 2018 Fazio, M., Jeudevine, L., Bloechle, A. & **Morgan, J. D.** (2018). Identification of Florida Homes at High Risk for Wind Damage; A spatial analysis of Single-Family Homes Built Prior to 2001 in Florida's Wind-Borne Debris Regions. Under consideration for *Contract* with the *Florida Division of Emergency Management*
- 2018 Morgan, J. D., Jeudevine, L., Fazio, M. & Bloechle, A. (2018). Designing & planning for the development a Web GIS to support Tobacco Free Florida. *Contract* for Florida Department of Health's *Bureau of Tobacco Free Florida*
- 2017 Memiah, P., Mbizo J., **Morgan J. D.** (2017). HICHRO Study in Tanzania. *Grant* through *University of West Florida Office of Research and Sponsored Programs*.
- 2016 O'Dare Wilson, K. CO-PIs: Bloechle, A., Fazio, M. & **Morgan, J. D.** (2016). "Where's the Food? Refining food desert measures to more accurately reflect local access to healthy food, and incidence of diet-related disease deaths". *Contract* for maps and spatial micro-simulation study. *UWF Research and Sponsored Programs*
- 2014-16 Fox, J. F., **Morgan, J. D.**, Phillips, M. B., Dougherty, C. A., Hall, N. H., Frimmel, J. R., Hutchison, M. W., & Rogers, K. L. (2014). *Contract* for the design and development of a web application and subscription service for Landsat Forest Area Change Tools (LandsatFACT). *North Carolina Department of Agriculture and Consumer Services – N.C. Forest Service*
- 2014-15 Fox, J. F., **Morgan, J. D.** & Hall, N. H. (2014). Food Asset Mapping Project. *Contract* with *Land-of-Sky Regional Council* to build a Web GIS
- 2013-14 Fox, J. F., Phillips, M. B., **Morgan, J. D.**, Dougherty, C. A., Hall, N. H., Frimmel, J. R., Hutchison, M. W., & Rogers, K. L. (2013). *Contract* for the design and development of tools and technology for the Eastern Forest Environmental Threat Assessment Center (EFETAC). *The USDA Forest Service Eastern Forest Environmental Threat Assessment Center (EFETAC)*
- 2013 Morgan, J. D. (2013). EcoSpatial Information Database developed by AMEC Environment & Infrastructure in collaboration with the Bureau of Ocean Energy Management. *Contract* to provide *peer review* as GIS and Database Expert
- 2011 Dubrow, R., Hutchins, M. W., Fox, J. F., **Morgan, J. D.** & Rogers, K. L. (2011). *Contract* to develop and implement a spatial decision-making methodology in support of The Southeast Natural Resource Leaders Group (SENRLG) Phase II.
- 2009-10 Steinberg, P.E. & **Morgan, J. D.** (2010). A Visual Time-Geographic Approach to Crime Mapping. Recipient of Doctoral Dissertation Improvement Grant (Award ID: 0927850) from National Science Foundation

## Awards

- 2018 Morgan, J. D. (2018). Student Engagement Compensation Plan (Awarded). Hal Marcus College of Science and Engineering. UWF
- 2016 Greller, R. (Undergraduate) & **Morgan, J. D.** (Faculty Mentor). [\*Best Undergraduate Student Project\*](#). UWF Student Scholar Symposium and Faculty Research Showcase 2016
- 2014 Morgan, J. D., Hutchins, M.W., Rogers, K.L, Frimmel, J. R., Dougherty, C. A. & Phillips, M. B. (2014). NEMAC ForWarn Team - [\*UNC Asheville 2014 Outstanding Team Award\*](#). UNC Asheville
- 2013 Hargrove, W.H., Norman, S., Christie, B.C., **Morgan, J. D.**, Hutchins, M.W., Rogers, K.L, & Phillips, M. B. (2013). [\*US Forest Service Chief's Honor Award\*](#). USDA Forest Service
- 2013 Hargrove, W.H., Norman, S., Christie, B.C., **Morgan, J. D.**, Hutchins, M.W., Rogers, K.L, & Phillips, M. B. (2013). [\*Group Achievement Award\*](#). National Aeronautics and Space Administration
- 2012 Hargrove, W.H., Norman, S., Christie, B.C., **Morgan, J. D.**, Hutchins, M.W., Rogers, K.L, & Phillips, M. B. (2012). *2012 Director's Science Delivery Award* (ForWarn Team). USDA Forest Service's Southern Research Station
- 2010 Morgan, J. D. (2010). [\*Best Poster Award\*](#). GIScience 2010. Zurich, Switzerland

## University & Community Service

- 2018 *Committee Member* – University representative on International Paper Citizen's Advisory Council  
*Committee Member* – Hal Marcus College of Science and Engineering postdoctoral scholar selection committee  
*Volunteer Cartographer* – City of Gulf Breeze hiking trail mapping improvement project

- 2017 *Volunteer Cartographer* – C.A. Weis Community School  
*Hiring Committee Member* – GIS Programs Coordinator  
*Campus Committee Member* – UWF Environmental Conservation and Beautification Committee  
*Webmaster* – Florida Society of Geographers  
*Contributor* – Contributed mutated article for training module for Wiley UK currently being utilized in Wiley Research Academy (<http://news.wiley.com/wileyresearcheracademy>)  
*Campus Committee Member* – UWF Environmental Conservation and Beautification Committee  
*Hiring Committee Member* – Assistant Professor of Environmental Planning  
*Coordinator* - Road Scholars event for UWF Science Olympiad
- 2016 *Session Chair* - Transportation Geography: Analysis and Mapping session at the 2016 Applied Geography Conference, Louisville, KY  
*Coordinator* - Road Scholars event for UWF Science Olympiad  
*Hiring Committee Member* - UWF GeoData Research Staff Hiring Committee

### Certifications/Memberships

- 2018 *Member*: Southeast Division of the Association of American Geographers  
2017 *Certified Knowledge Worker*: The University of West Florida  
2016 *Quality Online Instructor*: Quality Matters (QM) instruction as administered through the University of West Florida  
2015 *Course Completion Certificate*: The University of North Carolina at Chapel Hill and Coursera: Introduction to Environmental Law and Policy  
2015- *Certified*: Geographic Information Systems Professional ([GISP](#)) through GIS Certification Institute (GISCI)  
2015- *Certified*: National Institute of Health’s Human Subjects Research Training (IRB). “Protecting Human Research Participants”  
2010- *Member*: Association of American Geographers (Urban Geography, Cartography and Legal Geography Specialty Groups)

### Master’s Committees

#### Chair of Master’s Degree Capstones

- Wendy Peloquin (currently enrolled in M.S. in GIS Administration). Capstone title: *FLEGRT (Florida Emergency GIS Response Team) Response Guide*  
Jesse Lewno (currently enrolled in M.S. in GIS Administration). Capstone title: *GIS based Analysis of Red-Cockaded Woodpecker Cavity Hole Orientation*  
Karlie Kendall (received M.S. in GIS Administration, December 2017). Capstone title: *Asset Susceptibility to Geohazards and Avalanche Hazard Risk Mapping in Rocky Mountain National Park, Colorado*  
Nathaniel Holley (received M.S. in GIS Administration, December 2017). Capstone title: *Developing a Method for Raster-Based Delineation of Seagrass Areas Using Drone Sourced Photographs*  
Stuart Fricke (received M.S. in GIS Administration, December 2017). Capstone title: *Developing a spatial database*  
Ray Eslinger (received M.S. in GIS Administration, December 2016). Capstone title: *Hotspot mapping for bear-vehicle conclusion* Significant research products: peer-reviewed publication and conference prestation

#### Member of Master’s Thesis Supervisory Committees

- Chloe Jackson (pursuing M.S. in Environmental Science, In-progress). Thesis title: *The Vulnerability of the Property Protection Service to Environmental Stressors in the Gulf of Mexico*  
Jessica Comeaux (pursuing M.S. in Environmental Science, In-progress). Thesis title: *Environmental Contamination in relation to public health in Florida through GIS analysis.*  
Megan Russel (received M.S. in Environmental Science, In-progress). Thesis title: