

# THOMAS W. CRAWFORD

Associate Professor  
Department of Geography  
East Carolina University  
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## EMPLOYMENT

- Associate Professor of Geography, East Carolina University** August 2009 – present
- *Specialties:* Geographic Information Science, Population-Environment, Landscape Analysis, Complexity Studies
- Assistant Professor of Geography, East Carolina University** August 2003 – 2009
- Assistant Professor of Environmental Studies and Geography, Gettysburg College** August 2000 – 2003

## EDUCATION

- Department of Geography, University of North Carolina, Chapel Hill, NC**
- Ph.D., Geography** August 2000
- *Dissertation:* “Human-Environment Interactions and Regional Change in Northeast Thailand: Relationships Between Socio-Economic, Environmental, and Geographic Patterns.”
- M.A., Geography** December 1994
- *Thesis:* “Riding into America on the TransAmerica Bicycle Trail”
- Wake Forest University, Winston-Salem, NC**
- B.S., Mathematical Economics** May 1988

## TEACHING EXPERIENCE

Introduction to Geography (ECU and Gettysburg College)  
World Regional Geography (UNC-Chapel Hill)  
Introduction to Geographic Information Systems (Gettysburg College and UNC-Chapel Hill)  
Geographic Information Systems I (ECU)  
Geographic Information Systems II (ECU)  
Environmental Applications of Geographical Information Systems (Gettysburg College)  
Human Dimensions of Environmental Change, Senior Seminar (Gettysburg College)  
Graduate Seminar on Geographic Information Science (ECU)

## GRANT ACTIVITY AWARDED

**North Carolina Sea Grant College**, \$69,823, “Linking Demographic Patterns to Landscape Indicators of Coastal Development,” 2006-2008, principal investigator.

**UNC-General Administration**, \$75,000 of total \$288,694, “North Carolina coastal hazards: economic implications of severe storms and sea level rise.”, 2008, co-investigator.

**Centers for Disease Control (CDC)**, \$24,000 for graduate assistantship to be mentored by Dr. Crawford, "The role of the physical environment in the physical activity behaviors of rural and urban children," 2008-2010, faculty mentor.

**AmericaView Consortium**, major participant in proposal to establish NCVIEW state site within America View.

**ECU Division of Research and Graduate Studies**, \$39,074, "Storm-related Risk and Emergency Communication in the Coastal Zone," 2006-2007, senior personnel.

**ECU Coastal Maritime Council**, 0.25 FTE summer stipend, "Assessing the Environmental Implications of Later Life Migration in Coastal North Carolina: Linking People to Place Using Parcel Data and Spatial Sampling," 2006, co-investigator.

**ECU Faculty Senate Research and Creative Activity Grant**, research leave, "Spatial Analysis of Community-Based National Forest Planning in Southwest Colorado," Linking Demographic Patterns to Landscape Indicators of Coastal Development," East Carolina University, 2006 (spring), principal investigator.

**ECU Division of Research and Graduate Studies**, \$30,000, "Spatial, Environmental and Behavioral Determinants of Valuation of Coastal Erosion Risk," East Carolina University, 2005-2006, co-investigator.

**ECU Student Computing and Technology Innovative Project**, \$10,000, "Establishment and Enhancement of Distance Education in Geographic Information Science," East Carolina University, 2005-2007, principal investigator.

**Glenmary Research Center**, \$2,153, "Diocesan Mapping Project," 2004, principal investigator.

**National Science Foundation, Course Curriculum and Laboratory Improvement**, \$47,796, "Integrating Spatial Information Technologies into the Environmental Studies Curriculum," NSF-0088403, 2000-2003, principal investigator.

**Community-Based Collaboratives Research Consortium**, \$10,000, "A Longitudinal and Spatial Analysis of Intermediate Socio-Environmental Impacts of Community-Based Collaborative Planning in Southwest Colorado," 2002-2003, co-investigator.

**Gettysburg College Presidential Research Fellowship**, \$10,000, "Spatial Analysis of Coupled Natural and Human Systems in Coastal Maine," 2002-2003, co-investigator.

**Pre-doctoral Fellowship, Carolina Population Center**, University of North Carolina-Chapel Hill, 1997-1999.

**Smith Graduate Research Grant**, 1999. University of North Carolina-Chapel Hill, \$500.

#### **GRANT ACTIVITY PENDING**

**NIH**, \$392,295, submitted Spring 2008, "The association between community activity areas and physical activity among rural low-income adolescents and adults," CI: T.W. Crawford (with Shores, K. A., Moore, J.R., ECU Recreation & Leisure Studies, ECU Department of Public Health.)

#### **GRANT ACTIVITY NOT AWARDED**

**NSF**, \$719,694, submitted Spring 2008 to HSD Program, "Migration dynamics in a coastal frontier: later-life and working age migrant impacts," CI: T.W. Crawford (Bradley, D. E. & Edwards, R.H., ECU Sociology).

**NSF**, \$680,142, submitted Spring 2007, "Going Coastal: An Integrated Study of Decision Making under Environmental Risk", CI: T.W. Crawford (with J. Kruse, O. Bin, and C. Landry, ECU Economics; K. Wilson, ECU Sociology)

**NSF**, \$746,633, submitted Spring 2007, "Natural Hazards and Human Dynamics: An Adaptive Panel Approach", CI: T.W. Crawford (with J. Johnson, ECU Sociology; J. Kruse, C. Landry, and H. Liu, ECU Economics; M. Brinson, ECU Biology; D. Mallinson and J. Walsh, ECU Geology)

**NSF**, \$172,615., submitted Fall 2005, "SGER: Risk Communication and Socio-Spatial Knowledge Networks in Hurricane-Affected Areas", CI: T.W. Crawford (with C. Smith and D. Kain, ECU English)

**NSF**, \$676,260, submitted Summer 2005, "Perceptions of Coastal Hazards: Decision Making Under Multi-dimensional Risk", CI: T.W. Crawford (with J. Kruse, O. Bin, and C. Landry, ECU Economics)

**North Carolina SeaGrant**, \$60,000 pre-proposal, submitted Spring 2005, "Assessment of Vulnerability to Hurricane Hazards for North Carolina Counties", CI: T.W. Crawford (with P. Gares and R. Mitchelson, ECU Geography)

**North Carolina SeaGrant**, \$60,000 pre-proposal, submitted Spring 2005, "Real Estate Market Response to Spatially Delineated Risks in Coastal Settings", CI: T.W. Crawford (with J. Kruse, O. Bin, and C. Landry, ECU Economics)

**ECU Coastal Maritime Council**, 0.25 summer FTE, submitted Spring 2006. "Informing Publics About Storm Risks in the Coastal Zone", CI: T.W. Crawford (with C. Smith and D. Kain, ECU English; J. Howard, ECU Communications)

### **MANUSCRIPTS IN PROGRESS**

Vaughn, S., and **T.W. Crawford**, (accepted). A predictive model of archaeological potential: an example from northwestern Belize. *Applied Geography*.

**Crawford, T.W.**, O.Bin, J. Kruse, and C. Landry, (submitted & under review). Time-varying viewshed measures and impacts on hedonic pricing models: a case study of ocean view in beach communities. *International Journal of Geographical Information Science*.

Wilson, R., A. Bigler, and **T.W. Crawford**, (submitted & under review). Looking east for the New West? Characterizing rural change in Adams County, PA. Submitted book chapter to Winchell, D., Ramsey, D., Koster, R. and G. Robinson (eds.) 2008. *Rural Change, Connections and Scale*. Spokane: Eastern Washington University Press.

**Crawford, T.W.**, and D. Mageean, (manuscript close to submission). A coupled natural and unman systems approach towards biodiversity: reflections from social scientists. Book chapter to Cincotta, R.P, and L.J. Gorenflo (eds.) *The Demography and Geography of Homo Sapiens and Their Influences on Biological Diversity*. Springer-Verlag.

### **PUBLICATIONS IN PRINT OR IN PRESS**

**Crawford, T. W.**, (in press, 2009). Analytical scale. *International Encyclopedia of Human Geography, 1st Edition*. Elsevier.

Luchette, J. L. and **T.W. Crawford** (in press, 2008). A public participation GIS application for citizen based watershed monitoring in the Pamlico-Tar River Basin, North Carolina. *Southeastern Geographer*.

Wilson, R. & **T.W. Crawford**, (in press, 2008). Tracking collaboration: forest planning and local participation on the San Juan National Forest, Colorado. *Local Environment*.

Bin, O., **T.W. Crawford**, J. Kruse, J., and C. Landry, (2008). Viewscapes and flood hazard: coastal housing market response to amenities and risk. *Land Economics* 84: 434-448.

**Crawford, T.W.**, (2007). North Carolina's final coastal frontier: land cover change in the Inner Banks, 1996-2001. *The North Carolina Geographer* 15: 37-52.

**Crawford, T. W.** (2007). Where does the coast sprawl the most? Trajectories of residential development and sprawl in coastal North Carolina, 1971-2000. *Landscape and Urban Planning*, 83 (4), 294-307.

Curtis, S., **T.W. Crawford**, and S.A. Lecce, (2007). A comparison of TRMM to other basin-scale estimates of rainfall during the 1999 Hurricane Floyd flood. *Natural Hazards* 43: 187-198.

**Crawford, T.W.**, J.A. Commito, and A.M. Borowik, (2006). Fractal characterization of *Mytilus edulis* L. spatial structure in intertidal landscapes using GIS methods. *Landscape Ecology* 21: 1033-1044.

O'Sullivan, D, Manson, S.M., Messina, J.P., and **T.W. Crawford**, (2006). Space, place, and complexity science (guest editorial). *Environment and Planning A* 38: 611-617.

**Crawford, T.W.** (2006). Polygon-to-polygon spatial accessibility using different aggregation approaches: a case study of national forests in the US Mountain West region. *Transactions in GIS* 10(1): 121-140.

**Crawford, T.W.** (2005). Spatial fluctuations as signatures of self-organization: a complex systems approach to landscape dynamics in Rondonia, Brazil. *Environment and Planning B* 32: 857-875.

**Crawford, T.W.**, J.P. Messina, D. Manson, and D. O'Sullivan, (2005). Complexity science, complex systems, and land use research (guest editorial). *Environment and Planning B* 32: 792-798.

**Crawford, T.W.**, and R.K. Wilson, (2005). Multi-scale analysis of collaborative national forest planning contexts in the rural US Mountain West. *Population and Environment* 26: 397-426.

**Crawford, T.W.** (2005). Stability and change on the American religious landscape: a centrographic analysis of major U.S. religious groups. *Journal of Cultural Geography* 22(2): 51-86.

Walsh, S.J., K. A. Crews-Meyer, **T.W. Crawford**, and W. F. Welsh, (2004). Population and environment interactions: spatial considerations in landscape characterization and modeling. In, *Scale and Geographic Inquiry: Nature, Society and Methods*, edited by R. McMaster and E. Sheppard. Blackwell Publishers, p. 41-65.

Wilson, R.K., and **T.W. Crawford**, (2003). A longitudinal and spatial analysis of intermediate socio-environmental impacts of community-based collaborative planning on the San Juan National Forest. Proceedings of the Community-Based Collaboratives Research Consortium Conference, Salt Lake City Utah, September 14-16, <http://www.cbrc.org/events.html>.

**Crawford, T.W.** (2002). Spatial modeling of village functional territories to support population-environment linkages in northeast Thailand. In, *Linking People, Place, and Policy: A GIScience Approach*, edited by S.J. Walsh and K.A. Crews-Meyer. Norwell, MA: Kluwer Academic Publishers, pp. 91-111.

Rindfuss, R.R., B.E. Entwisle, S.J. Walsh, P. Prasakurti, Y. Sawangdee, **T.W. Crawford**, and J. Reade, (2002). Continuous and discrete: where they have met in Nang Rong, Thailand. In, *Linking People, Place, and Policy: A GIScience Approach*, edited by S.J. Walsh and K.A. Crews-Meyer. Norwell, MA: Kluwer Academic Publishers, pp. 7-37.

Walsh, S.J., **T.W. Crawford**, W.F. Welsh, and K.A. Crews-Meyer, (2001). A multi-scale analysis of LULC and NDVI variation in Nang Rong district, northeast Thailand. *Agriculture, Ecosystems, and Environment*, 85: 47-64.

Walsh, S.J., K.A. Crews-Meyer, **T.W. Crawford**, W.F. Welsh, and R.R. Rindfuss, (2001). Patterns of change in land use, land cover, and plant biomass: separating intra- and inter-annual signals in monsoon-driven northeast Thailand. In, *GIS and Remote Sensing and Applications in Biogeography and Ecology*, edited by A.C. Millington, S.J. Walsh, and P.E. Osborne, Boston: Kluwer Academic Publishers, pp. 91-108.

**Crawford, T.W.**, K.A. Crews-Meyer, and S.J. Walsh, (1999). Instructional technologies and the Internet: Options and possibilities for geographic information science education. *Geocarto International*, 14(2): 75-82.

**Crawford, T.W.** (1999). A comparison of region building methods used to examine human-environment interactions in Nang Rong District, Northeast Thailand. *Papers and Proceedings of the Applied Geography Conferences*, 22: 366-373.

Gesler, W. M., S. J. Walsh, **T.W. Crawford**, P. S. Wittie, and T. C. Ricketts, (1995). Analysis of hospital service areas in Charlotte-Mecklenburg region of North Carolina, USA through GIS approaches. *Proceedings, CREDES, Hospitals and the Geography of Health Care*, Paris, France, 85-99.

Walsh, S. J, W. M. Gesler, P. H. Page, and **T.W. Crawford**, (1995). Health care accessibility: Comparison of networks and indices of hospital service areas. *Proceedings, LIS/GIS '95*, Nashville, TN, 2: 994-1005.

Palka, E. J., and **T.W. Crawford**, (1994). North Carolina: Natural nidus for Rocky Mountain Spotted Fever. *The North Carolina Geographer*, 3(summer): 1-16.

### **SCHOLARLY PRESENTATIONS**

Allen, T. A., **Crawford T.**, Wang, Y., O'Driscoll, M., & McClendon, R., 2008. Mapping and modeling coastal flooding vulnerability from impervious runoff on the Outer Banks, NC. Annual Meeting of the Association of American Geographers, Boston, Massachusetts.

Wilson, R.K., **Crawford, T. W.**, & Bigler, A., 2008. Whither the New East? comparing rural change in southern Pennsylvania and southwestern Colorado. Accepted for Annual Meeting of the Association of American Geographers, Boston, Massachusetts.

**Crawford, T.W.**, 2007. Mapping the urban-to-rural continuum: remote sensing, city lights and exurban sprawl patterns in coastal North Carolina. Presented at Southeastern Division of the Association of American Geographers, Charleston, South Carolina.

Ward, H., C. Smith, D. Kain, **T. Crawford**, and J. Howard, 2007. Emergency communication and risk perception in the coastal zone of eastern North Carolina. Coastal Zone '07, Portland OR.

**Crawford, T.W.**, D. Bradley, and B. Edwards, 2007. Linking demographic profiles to residential land use patterns in coastal North Carolina: integration of census blockgroup and parcel data. Coastal GeoTools '07, Myrtle Beach, SC.

**Crawford, T.W.**, 2007. North Carolina's final coastal frontier: land cover change analysis for the Inner Banks, 1992-2001. Annual Meeting of the Association of American Geographers, San Francisco, CA.

**Crawford, T.W.**, 2007. Signals of land cover change for North Carolina's Inner Banks, 1992-2001. 2007 NC GIS 10<sup>th</sup> Anniversary Conference, Winston-Salem, NC.

**Crawford T.W.**, 2006. Relocation of retirees. Making Tourism Work for You II Conference, Hilton Hotel, Greenville, NC.

**Crawford, T.W.**, 2006. Inland coastal boom? Random and systematic land cover transitions in the Inner Banks, 1992-2001. Annual Meeting of the Association of American Geographers Southeastern Division, Morgantown, WV.

Bin, O., **T.W. Crawford**, J. Kruse, and C. Landry, 2006. Valuing spatially integrated amenities and risk in coastal housing markets. The Third World Congress of Environment and Resource Economists, Kyoto, Japan.

**Crawford, T.W.**, 2005. Time-space characterization of residential development in a coastal setting. Annual Meeting of the Association of American Geographers Southeastern Division, West Palm Beach, FL.

Bradley, D., and **T.W. Crawford**, 2005. Exploring the potential impacts of later-life migration in coastal regions: land use in New Hanover County, North Carolina. Annual Meeting of the Gerontological Society of America, Orlando, FL.

Bradley, D, and **T.W. Crawford**, 2005. Changing coastal demographic profiles and the creation of multiple use zones. Conference on Social Science Issues, Traditional Fishing Communities: Past, Present, and Future, Greenville, NC, March 18.

**Crawford, T.W.**, 2005. Fractal characterization of suburban residential development in Montgomery County, Maryland, 1950-2000. Annual Meeting of the Association of American Geographers, Denver, CO.

**Crawford, T.W.**, 2004. Coastal exposure estimation using watershed analysis techniques. Poster presented at Annual Meeting of the Association of American Geographers Southeastern Division, Biloxi, MS.

**Crawford, T.W.**, and R.K. Wilson, 2004. County-level measures of spatial accessibility to national forests in the US Mountain West. Poster presented at Annual Meeting of the Association of American Geographers, Philadelphia, PA.

Wilson, R.K., and **T.W. Crawford**, 2004. Tracking collaboration: a longitudinal assessment of community-based planning on the San Juan National Forest, Colorado. Annual Meeting of the Association of American Geographers, Philadelphia, PA.

Wilson, R. W., and **T.W. Crawford**, 2003. A longitudinal and spatial analysis of intermediate socio-environmental impacts of CBC planning in SW Colorado. Community-Based Collaboratives Research Consortium Conference, SnowBird Resort and Conference Center.

**Crawford, T.W.**, 2003. Signatures of complexity: Spatio-temporal dynamics of land cover patterns for coupled natural-human systems. Annual Meeting of the Association of American Geographers, New Orleans, LA.

Borowik, A, and **T. W. Crawford**, 2003. Multi-scale characterization of mussel bed structure in coastal Maine: a GIS approach. Poster presented at 32<sup>nd</sup> Annual Benthic Ecology Meeting, Groton, CT.

**Crawford, T.W.**, 2002. Spectral analysis of forest cover patterns in Rondonia, Brazil: Evidence for biocomplexity in a coupled natural-human system. Annual Meeting of the Association of American Geographers Southeastern Division, Richmond, VA.

**Crawford, T.W.**, 2002. Conceptualizing and quantifying land use complexity. Annual Meeting of the Association of American Geographers, Los Angeles, CA.

**Crawford, T.W.**, 2001. Spatial complexity, pattern metrics, and land use. Annual Meeting of the Association of American Geographers Southeastern Division, Lexington, KY.

**Crawford, T.W.**, 2001. Spatially explicit indicators of landscape fragmentation. Poster presented at Annual Meeting of the Association of American Geographers, New York, NY.

**Crawford, T.W.**, 2001. Teaching GIS, teaching with GIS, and bringing spatial data into the classroom. Instructional Technology Support Conference, Gettysburg College.

**Crawford, T.W.**, 2000. Integration of demographic data with GIS and remotely sensed data to support a village-level analysis of Nang Rong District, Northeast Thailand. Annual Meeting of the Association of American Geographers, Pittsburgh, PA.

Walsh, S. J., **T.W. Crawford**, K.A. Crews-Meyer, and W.F. Welsh, 1999. Scale dependent relationships in northeast Thailand: NDVI variation as a function of biophysical, social, and geographical factors and their influence on landscape form and function. An International Workshop, "Current Progress in Quantifying Spatially-Explicit Causes and Effects of Land-Use/Cover Change: Examples From Different Parts of the World," Wageningen, The Netherlands.

**Crawford, T.W.**, 1999. Use of an integrated GIS to analyze the impact of population change on forest biomass change in northeast Thailand. Annual Meeting of the Association of American Geographers Southeastern Division, Tampa, FL.

**Crawford, T.W.**, 1999. A comparison of region building methods used to examine human-environment interactions in Nang Rong District, Northeast Thailand. Applied Geography Conference, Charlotte, NC.

Rindfuss, R.R., B. Entwisle, S. J. Walsh, **T.W. Crawford**, and Y. Sawangdee, 1999. A comparison of spatially explicit methods for relating household census data to field plots in rural Thailand. Third Open Meeting of Human Dimensions of Global Change Community, Shonan Village, Japan.

**Crawford, T.W.**, 1999. Spatial modeling of population-environment linkages and biophysical profiles in northeast Thailand. Annual Meeting of the Association of American Geographers, Honolulu, HI.

**Crawford, T.W.** and S. J. Walsh, 1998. Social, spatial, and biophysical domains: village associations in northeast Thailand. Annual Meeting of the Association of American Geographers, Boston, MA.

Walsh, S.J. and **T.W. Crawford**, 1997. The future of mapping. Conference on the Southeast in Early Maps, University of North Carolina, Chapel Hill, NC.

**Crawford, T.W.**, 1997. The meaning of pilgrimage in the United States. Annual Meeting of the Association of American Geographers, Forth Worth, TX.

**Crawford, T.W.**, 1996. Network analysis and hospital use indices: Approaches for assessing health care accessibility. North Carolina Geographic Information Systems Conference, Winston-Salem, NC.

**Crawford, T.W.**, 1996. Social space and therapeutic places on the Internet: a Multiple Sclerosis listserver. Meeting of the Association of American Geographers Southeastern Division, Athens, GA.

**Crawford, T.W.**, W. M. Gesler, S. J. Walsh, and P. H. Page, 1996. Approaches for assessing health care accessibility within a GIS environment. Annual Meeting of the Association of American Geographers, Charlotte, NC.

Gesler, W.M., S.J. Walsh, **T.W. Crawford**, P.S. Wittie, and T.C. Ricketts, 1995. Analysis of hospital service areas in the Charlotte-Mecklenburg region of North Carolina, USA through GIS approaches. CREDES, Hospitals and the Geography of Health Care, Paris, France.

Walsh, S.J., P. Wittie, **T.W. Crawford**, and P. Page, 1995. Health care planning and the spatial perspective within a GIS environment. Carolinas Medical Center, Charlotte, North Carolina.

Wittie, P.S., **T.W. Crawford**, S.J. Walsh, and W.M Gesler, 1995. Delineating health service areas using a geographic information system. Annual Meeting of the Association of American Geographers, Chicago, IL.

#### **OTHER PRESENTATIONS, WORKSHOPS, AND INVITED LECTURES**

**Crawford, T. W.**, 2008. Human dimensions of GIScience and technology. Invited presentation at Geographic Information Science Workshop 2008, Greenville, North Carolina, sponsored by the ECU Center for Geographic Information Science, ECU Coastal Maritime Council, and ECU Renaissance Computing Initiative (RENCI).

**Crawford, T. W.**, 2008. GIS overview and application. Invited presentation at Innovative Community Planning Tools Workshop, Kinston, North Carolina, sponsored by the Department of Defense US Marine Corps.

**Crawford, T. W.**, 2008. Linking Demographic Patterns to Landscape Indicators of Coastal Development. Invited presentation at Marine Fisheries Council Habitat and Water Quality Advisory Committee, New Bern, North Carolina.

**Crawford, T.W.**, 2006. Multiple roles of geographic information science and technology. Workshop on Storm-related Risk and Emergency Communications in the Coastal Zone, East Carolina University.

**Crawford, T.W.**, 2006, Human dimensions of coastal land cover change. Research Workshop, ECU Coastal Maritime Council, Greenville, NC.

**Crawford, T.W.**, 2005. Geographic information science at East Carolina University's Department of Geography. Poster presented at NCGIS 2005 Conference, Winston-Salem, NC, March 3-4.

**Crawford, T.W.**, 2004. GIS and landscape approaches to coastal restoration. Coastal Ecosystem Restoration Workshop, ECU Coastal Maritime Council, Greenville, NC, September 18.

**Crawford, T.W.**, 2004. Geographic approaches to coastal land use and cover change. For, CRM 6100: Introduction to Coastal Problems, East Carolina University, September 10.

**Crawford, T.W.**, 2004. GIS workshop on computer applications in public administration. For, PADM 6260: Computer Applications in Public Administration, East Carolina University, April 13.

**Crawford, T.W.**, 2004. GIS workshop. For, American Fisheries Society, East Carolina University Chapter, March 26.

**Crawford, T.W.**, 2004. An overview of GIS. For, ECON 3323: Seminar in Regional Analysis, East Carolina University, February 13.

**Crawford, T.W.**, 2004. An overview of geographic information systems. Presented to a Visiting Delegation from the Urals Academy of Public Administration (Yekaterinburg, Russia), Greenville, NC.

**Crawford, T.W.**, 2003. The integrative power of GIS. Keynote speaker at GIS Day Celebration, East Carolina University, November 19.

**Crawford, T.W.**, J. Commito, and R. Wilson, 2002. Geographic Information Systems and Environmental Studies at Gettysburg College. Fall Meeting of the Gettysburg College Board of Trustees.

**Crawford, T.W.**, S. Italiano, and W. Hunter, 2002. Geographic Information Systems and the Gettysburg College Curriculum. Gettysburg College Science Advisory Committee Meeting.

**Crawford, T.W.**, 1999. Spatial linkage of social and environmental data to assess regional development patterns in Nang Rong District, Northeast Thailand. Invited talk at the Carolina Population Center, University of North Carolina, Chapel Hill, NC.

**Crawford, T.W.**, 1998. Spatial linkage of rural households to farm plots: results from fieldwork in rural Thailand. Brown Bag Speaker Series of the Department of Geography, University of North Carolina, Chapel Hill, NC.

**Crawford, T.W.**, 1998. Portraits of sacred landscapes: a comparison of Catholic pilgrimage shrines in Conyers, Georgia and Golden, Colorado. Brown Bag Speaker Series of the Department of Geography, University of North Carolina, Chapel Hill, NC.

### **AWARDS**

**Best Paper**, Ph.D. Student Honors Competition, 1999 Annual Meeting of the Association of American Geographers Southeastern Division, "Use of an Integrated GIS to Analyze the Impact of Population Change on Forest Biomass Change in Northeast Thailand," \$200.

**First Place Award**, Student Paper Competition of the GIS Specialty Group of the Association of American Geographers, 1999 Annual Meeting of the Association of American Geographers, "Spatial Modeling of Population-Environment Linkages and Biophysical Profiles in Northeast Thailand," \$1,000.

### **EAST CAROLINA UNIVERSITY AFFILIATIONS**

**Center for Geographic Information Science**, director.

**Center for Natural Hazards Research**, core faculty.

**Institute for Interdisciplinary Coastal Science and Policy**, affiliate faculty.

**PhD. Program in Coastal Resources Management**, affiliate faculty.

**Renaissance Computing Initiative (RENCI)**, research associate.

### **DEPARTMENTAL AND UNIVERSITY SERVICE**

Chair, GIST Degree Committee, Fall 2006 – present, Geography, East Carolina University.

Steering Committee, 2007-present, Coastal Maritime Council, East Carolina University.

Member (elected), Geography Advisory Committee, 2006-2008, Geography, East Carolina University.

Member, Curriculum Committee, 2007-present, Geography, East Carolina University

Panel Reviewer, Spring 2008, Research Development Award Program, East Carolina University.

Faculty Judge, Spring 2008, 2<sup>nd</sup> Annual Research and Creative Activity Week (judged student research).

Member, Search Committee, Coastal Policy hire, 2006 – 2008, IICSP, East Carolina University.

Member, Graduate Committee, Fall 2006 – present, Geography, East Carolina University.

Member, Search Committee, Atmospheric Science hire, 2006 – present, Geography, East Carolina University.

Coordinator, Spatial Analysis Lab, Fall 2003 – present, Geography, East Carolina University.

Coordinator, GIScience Certificate Program, Fall 2003 – present, Geography, East Carolina University.

Chair, Search Committee, GIScience hire, 2005 – 2006, Geography, East Carolina University.

Member, Undergraduate Committee, Fall 2003 – present, Geography, East Carolina University.

Member, Social Committee, Fall 2003 – Spring 2006, Geography, East Carolina University.

Member, Search Committee, Landscape Ecology hire, 2004 - 2005, CRM, East Carolina University.

Director, Gettysburg College GIS Lab, 2000 – 2003, Gettysburg College.

Acting Department Co-chair, Spring 2001, Dept. of Environmental Studies, Gettysburg College.

Information Resources Advisory Committee, 2001 – 2003, Gettysburg College.

Information Technology Liaison, 2001 – 2003, Dept. of Environmental Studies, Gettysburg College.

Faculty Advisor, 2001-2002, Science Theme House, Gettysburg College.

Colloquium Series Chairperson, 1996-1997, Department of Geography, UNC-Chapel Hill.

Graduate Representative, 1994-1995, Department of Geography, UNC-Chapel Hill.

### **JOURNAL AND PROPOSAL REVIEWS**

*National Science Foundation*, proposal review, 2002, 2005.  
*University of Puerto Rico SeaGrant College Program*, proposal reviewer, 2007  
*Area*  
*Canadian Geographer*  
*Computers and Geosciences*  
*Environmental Management*  
*Environment and Planning A*  
*Environment and Planning B*  
*Geocarto International*  
*International Journal of Geographic Information Science*  
*Journal of Geography*  
*Journal of Environmental Management*  
*Land Degradation and Society*  
*Landscape and Urban Planning*  
*North Carolina Geographer*  
*Photogrammetric Engineering & Remote Sensing*  
*Plant Ecology*  
*Population and Environment*  
*Southeastern Geographer*

### **OFFICES HELD**

Nominating Committee, Chair (elected), 2006 – present, Southeastern Division of the Association of American Geographers  
Nominating Committee, Member (elected), 2005-2006, Southeastern Division of the Association of American Geographers  
Secretary/Treasurer (elected), 2007-present, North Carolina Geographical Society  
Steering Committee, Member (elected), 2004 – present, North Carolina Geographical Society

### **OTHER SERVICE AND ACTIVITIES**

Facilitator, FoR ENC (Foundation of the Renewal for eastern North Carolina), Your Town: Creative Communities Initiative, Produced large format map and served as a small group facilitator for a community planning workshop sponsored by FoR ENC targeted towards coastal growth in small communities of the Inner Banks, NC., Columbia, North Carolina, 3-day workshop.

Webmaster, North Carolina Geographical Society, 2007-present, <http://core.ecu.edu/crawfordt/ncgs/ncgs.htm>

Paper Discussant, Southeast Division of the Association of American Geographers Annual Meeting, Charleston, SC, November 2007.

Session Moderator, 'University Research Applications', 2007 NCGIS Conference, Winston-Salem, NC, March 2007.

Panelist, 'Women in Geography', Southeast Division of the Association of American Geographers Annual Meeting, Morgantown, WV, November 2006.

**Thomas W. Crawford, p. 11**

Paper Discussant, Southeast Division of the Association of American Geographers Annual Meeting, Morgantown, WV, November 2006.

Paper Discussant, Southeast Division of the Association of American Geographers Annual Meeting, West Palm Beach, FL, November 2005.

Panelist, 'Unifying Themes and Issues in AAG Biogeography', Annual Meeting of the Association of American Geographers, Denver, CO, April, 2005.

Session Co-organizer, 'Geographical Perspectives on Complex Systems II', Annual Meeting of the Association of American Geographers, Philadelphia, PA, March 2004.

Session Chair, 'Geographical Perspectives on Complex Systems I', Annual Meeting of the Association of American Geographers, Philadelphia, PA, March 2004.

Paper Discussant, Southeast Division of the Association of American Geographers Annual Meeting, Biloxi, MS, November 2004.

Faculty Judge, 2001 Student Poster Competition of the Remote Sensing Specialty Group (AAG).

GIS Election Mapping Analyst, 1993, Office of Chancellor, UNC-Chapel Hill.

**MEMBERSHIPS**

Association of American Geographers (AAG)  
GIS Specialty Group of the AAG  
Remote Sensing Specialty Group of the AAG  
Population Geography Specialty Group of the AAG  
Human Dimensions of Global Change Specialty Group of the AAG  
Southeastern Division, Association of American Geographers  
North Carolina Geographical Society

**UNDERGRADUATE AND GRADUATE ADVISING**

**B.A. (Environmental Studies, Gettysburg College)**

Ann Borowik (advisor, honors thesis, 2003)  
Wendy Dow (committee, honors thesis, 2003)  
Ben Grupe (committee, honors thesis, 2003)

**M.A. (Geography, East Carolina University)**

Andrew Bennett (committee, non-thesis, current)  
Heather Sheffield (committee, thesis, current)  
Terri Moreau (committee, thesis, 2008)  
Caleb Parker (committee, thesis, 2007)  
Rachel Campbell (committee, non-thesis, 2008)  
Joseph Luchette (advisor, non-thesis, 2006)  
Joe Mangum (committee, non-thesis, 2006)  
Matt Mitchelson (committee, thesis, 2006)  
William Suvak (advisor, thesis, 2006)  
Timothy Tresholavy (advisor, 2006)  
Sallie Vaughan (advisor, thesis, 2006)  
Brian Chambers (advisor, thesis, 2005)

**Thomas W. Crawford, p. 12**

Phil Sullivan (committee, non-thesis, 2004)  
Lindsay Wolter (committee, non-thesis, 2007)  
Kate Stratford (committee, thesis, current)  
Faith Stuart (committee, thesis, current)

**M.A. (Other Departments, East Carolina University)**

David Evans, Recreation and Leisure Studies (committee, thesis, 2007)  
Jonathan Schleirer, Anthropology (committee, thesis, current)  
Lisa Cowart, Geology (committee, thesis, current)

**Ph.D. (Coastal Resources Management, East Carolina University)**

Christopher Moore (committee, current)  
Ahmed Salahuddin (committee, current)  
Grey Meyer (committee, current)

**Ph.D. (Brody School of Medicine, East Carolina University)**

Jason Brown (committee, current)