

## **Robert W. Boyce, Ph.D., FACSM**

Department of Health and Applied Human Sciences  
University of North Carolina at Wilmington  
[boycer@uncw.edu](mailto:boycer@uncw.edu) (910) 962-7824

### **EDUCATION**

- 1975 Florida State University, Ph.D., Major Exercise Physiology
- 1972 Appalachian State University, MA, Major Health and Physical Education
- 1968 Erskine College, BA, Major Biology

### **PROFESSIONAL EXPERIENCE**

- Associate Professor, University of North Carolina at Wilmington; 2003-present. (Primary courses in anatomy and physiology and exercise physiology)
- Owner, Robert Boyce Health Promotion, Charlotte, NC; 1994-2003. (Exercise physiology and ergonomic services to control costs through injury prevention, increased productivity and morale enhancement.
- Assistant Professor, Department of Health and Physical Education, UNC at Charlotte; 1987 to 1994. (Graduate and undergraduate curriculum development, instruction and research in corporate health promotion, health and exercise physiology)
- Manager, William Beaumont Hospital Health Promotion and Wellness Program, Royal Oak, Michigan; 1986-1987. (Responsible for the comprehensive health promotion programming for over 6,000 employees: 10th largest hospital in U.S)
- Founder and Director of Health Promotion Associates, Charlotte, NC, 1985-1986. (Private corporate health promotion consultant service)
- Physical Fitness Coordinator, Charlotte Police Department, Charlotte, NC; 1979-1985. (Developed and directed the physical fitness programs for Charlotte Police officers)
- Assistant Professor, Department of Health and Physical Education, University of Dayton, Dayton, OH; 1975-1979. (Director of the human performance laboratory, curriculum development, prepared majors to teach in public schools, taught graduate and undergraduate science courses and physical activity skills)

### **GRANTS AND RESEARCH CONTRACTS**

**\$125,000**

Five grants awarded in the areas of physical fitness and related to youth and the occupational physiology.

### **CONSULTING ACTIVITIES AND CLIENT LIST**

Over 40 organizations including governments, hospitals, and businesses since 1994.

### **PROFESSIONAL ORGANIZATIONS**

- American College of Sport Medicine
- Southeast American College of Sports Medicine

### **PROFESSIONAL CERTIFICATES AND TITLES**

- Fellow (FACSM): Awarded by the American College of Sports Medicine. Prestigious distinction within the College that recognizes research and service
- Registered Clinical Exercise Physiologist<sup>®</sup>: American College of Sports Medicine. This certification is for clients who are referred by or are under the continued care of a licensed physician.

**PUBLICATIONS AND RESEARCH (36)**

28 Peer reviewed, 8 Field related non-peer reviewed

**RECENT OR SELECTED PUBLICATIONS IN PEER REVIEWED JOURNALS**

1. Boulos MS, Boyce RW, Jones GR, Boone EL. Longitudinal comparison of body mass index and percent body fat changes in Charlotte-Mecklenburg Police Department. *Medicine & Science in Sports & Exercise*. May 2009; S605.
2. Nusca SM, Boyce RW, Joye SC, Jones GR, Boone EL. Race comparisons of longitudinal changes in strength of police officers. *Medicine & Science in Sports & Exercise*. May 2009; S605.
3. Boyce RW, Ciulla S, Jones GR, Boone EL, Elliott SM, Combs CS. Muscular strength and body composition comparison between the Charlotte-Mecklenburg Fire and Police Departments. *International Journal of Exercise Science*. 2008; 1(3):125-135. <http://digitalcommons.wku.edu/cgi/viewcontent.cgi?article=1031&context=ijes>
4. Boyce RW, Jones GR, Lloyd CL, Boone EL. A longitudinal study of police: Body composition changes over 12 years with gender and race comparisons. *JEPonline* 2008; 11(6): 1-13.
5. Boyce RW, Stallings JA, Wilde CW. A multidisciplinary approach to a time-efficient low back exercise intervention in a small manufacturing plant: A case study. *Journal of Exercise Physiologyonline*. August 2008;11(4):12-24.
6. Boyce RW, Boone EL, Cioci BW, Lee AH. Physical activity, weight gain and occupational health among call centre employees. *Occup Med (Lond)*. Jun 2008;58(4):238-244.
7. Boyce RW. An ergonomic approach to the aging workforce: utilizing this valuable resource to best advantage by integrating ergonomics, health promotion and employee assistance programs. *Journal of Workplace Behavioral Health* 2008;23(1/2):179-199.
8. Boyce RW, Perko MA, Jones GR, Hiatt AH, Boone EL. Physical fitness, absenteeism and workers' compensation in smoking and non-smoking police officers. *Occup Med (Lond)*. Aug 2006;56(5):353-356.
9. Schendt KE, Boyce RW, Jones GR, Lloyd CL, Boone EL. Low to high strength group comparison over 12.5 years in Charlotte-Mecklenburg police. *Medicine & Science in Sports & Exercise*. May 2008; 40(5):S276.
10. Lloyd CL, Boyce RW, Jones GR, Schendt KE, Boone EL. A longitudinal study comparing low to high body composition groups in Charlotte-Mecklenburg police. *Medicine & Science in Sports & Exercise*. May 2008; 40(5):S357.
11. Vail TL, Boyce RW, Ciulla S, et al. Physical fitness training comparisons between Charlotte-Mecklenburg police and fire department recruits. *Medicine & Science in Sports & Exercise*. May 2007; 39(5):S200.
12. Tamer D, Boyce RW, Jones GR, Boone EL, Ciulla T, Vail T. A longitudinal body composition study of the Charlotte Mecklenburg police and fire department. *Medicine & Science in Sports & Exercise*. May 2007; 39(5):S201.
13. Radtke KA, Boyce RW, Jones GR. Comparing strength differences between police and fire personnel from recruit to in-service. *Medicine & Science in Sports & Exercise*. May 2007;39(5):S200
14. Ciulla S, Boyce RW, Jones GR, et al. Physical fitness similarities and differences between police and firefighter personnel in a large metropolitan area. *Medicine & Science in Sports & Exercise*. May 2007;39(5):S199
15. Mills D, Boyce RW, O'Connor M, et al. Low relationship between body part discomfort profile and end of shift fatigue. *Medicine & Science in Sports & Exercise*. May 2006; 38(5):S455.

16. Cioci BW, Boyce RW, O'Connor M, et al. Profile of weight gained after employment in sedentary occupation. *Medicine & Science in Sports & Exercise*. May 2006;38(5):S455
17. Boyce RW, O'Connor M, Boone EL, et al. Examining Benefits of Physical Activity and Club Membership in Telecommunication Industry Using Ergonomic Discomfort *Medicine & Science in Sports & Exercise*. May 2006;38(5):S454-S455
18. Bolton JK, Boyce RW, O'Connor M, et al. Ergonomic discomfort profile of a telecommunication company with health promotion implications. *Medicine & Science in Sports & Exercise*. May 2006; 38(5):S371.
19. Boyce RW. Ergonomics and exercise program to improve employee comfort and productivity while reducing repetitive illness. *Medicine & Science in Sports & Exercise*. May 2005; 37(5):S405.
20. Boyce RW. Manufacturing plant's pilot study of a time effective and low volume back strengthening program. *Medicine & Science in Sports & Exercise*. May 2004; 36(5):S221.
21. Smith DP, Boyce RW. Prediction of body density and lean body weight in females 25 to 37 years old. *American Journal of Clinical Nutrition*. 1979; 30:560 - 564.
22. Boyce RW, Jones GR, Hiatt AR. Physical fitness capacity and absenteeism of police officers. *J Occup Med*. Nov 1991;33(11):1137-1143.

Updated 9-11-09

**Christopher F. Dumas, Ph.D.**

**June 30, 2009**

**CONTACT INFORMATION**

Professor of Economics  
Department of Economics and Finance  
University of North Carolina -- Wilmington  
601 South College Rd.  
Wilmington, NC 28403  
TEL: 910-962-4026  
FAX: 910-962-7464  
EMAIL: dumasc@uncw.edu

**EDUCATION**

Ph.D., Natural Resource Economics, 1997. Univ. of California, Berkeley.  
Fields: Natural Resource Economics, Industrial Organization.  
M.S., Natural Resource Economics, 1991. Univ. of California, Berkeley.  
B.S., Economics, 1990. North Carolina State University.  
B.S., Environmental Science / Natural Resource Mgmt., 1990. North Carolina State University.

**AWARDS AND HONORS**

2007. *UNCW Million Dollar Club, UNC Wilmington.* (Obtained more than \$1 million in extramural research grant funding for the university.)  
2000. UNCW Chancellor's Outstanding Faculty Award. May 2, 2000.

**RESEARCH**

**Journal Articles**

Whitehead, J. C., Herstine, J. H., Dumas, C. F. Recreational Boater Willingness to Pay for an Atlantic Intracoastal Waterway Dredging and Maintenance Program. *Coastal and Ocean Management*. Currently under review.

Dumas, C. F., Herstine, J. H., Gamble, D. W., Meinhold, S. S. Willingness to Pay for Rip Current Awareness and Education Programs.. *Marine Resource Economics*. Currently under review.

Dumas, C. F. Estimating Peak Demand for Beach Parking Spaces under Capacity Constraints. *Shore and Beach*. Currently under review.

Schmitz, T., Dumas, C. F., Giese, C. Third-Generation Genetically Modified Organisms in Agriculture. *Journal of Public Affairs*. Currently under review.

- Fernandez, L., Dumas, C. F. (2009). Cross-media pollution and fuels--Can we avoid future MTBEs?. *Energy Economics*, *in press*.
- Burrus, R. T., Dumas, C. F. (2009). Willingness to pay for hurricane mitigation. Accepted, in press *Journal of Financial and Economic Practice*.
- Yates, J. K., Watanabe, W., Dumas, C. F., Losordo, T. M. (2009). Production economics of summer flounder *Paralichthys dentatus* aquaculture in a marine recirculating system.. *J. World Aquaculture Society*, *in press*.
- Burrus, R. T., Dumas, C. F., Graham, J. E. (2008). Homeowner Responses to Hurricane Risk Perceptions. *Journal of Housing Research*, *17*(1), 49-60.
- Dumas, C. F., Hall, W. W., Garrett, P. (2008). The Economic Impacts of Medicaid in North Carolina. *North Carolina Medical Journal*, *69*(2), 78-87.
- Dumas, C. F., Whitehead, J. C. (2008). The Potential Economic Benefits of Integrated and Sustainable Ocean Observation Systems: The Southeast Atlantic Region.. *Coastal Management Journal*, *36*, 146-164.
- Whitehead, J. C., Dumas, C. F., Herstine, J. H., Hill, J. M., Buerger, R. (2008). Valuing Beach Access and Width with Revealed and Stated Preference Data. *Marine Resource Economics*, *23*, 119-135.
- Dumas, C. F., Burrus, R. T., Diener, E., Payne, J., Rose, J. (2007). Valuing the Recreational Benefits of Sculpture in Public Parks. *J. of Park and Recreation Administration*, *25*(2), 29-41.
- Copeland, K., Watanabe, W., Dumas, C. F. (2005). Economic Evaluation of a Small-Scale Recirculating System for Ongrowing of Captive Wild Black Sea Bass *Centropristis striata* in North Carolina.. *J. World Aquaculture Society*, *36*(4), 489-497.
- Burrus, R.T., C.F. Dumas and J.E. Graham. (2002). Catastrophic Risk, Homeowner Response and Wealth Maximizing Wind Damage Mitigation. *Financial Services Review*. *11*:327-340.
- Burrus, R.T., C.F. Dumas, C.H. Farrell and W.W. Hall. (2002). The Impacts of Low-Intensity Hurricanes on Regional Economic Activity. *Natural Hazards Review*. *3*(3):118-125.
- Dumas, C.F. and S. Horton. (2002). The Potential Impact of Summer Flounder Aquaculture on Regional Flounder Price. *Aquaculture Economics and Management*. *6*(1):39-54.
- Burrus, R.T., C.F. Dumas and J.E. Graham. (2001). The Cost of Coastal Storm Surge Damage Reduction. *Cost Engineering*. *43*(3):38-44.
- Dumas, C.F. and R. Goodhue. (1999). The Cotton Acreage Effects of Integrated Pest Management: A County-Level Time-Series, Cross-Section Analysis. *Journal of Agricultural and Applied Economics*. *31*(3).
- Schmitz, T., A. Schmitz and C. Dumas. (1997). Gains from Trade, Inefficiency of Farm Programs and the Net Economic Effects of Trading. *Journal of Political Economy*. *105*(3):637-647.

Dumas, C. and T. Schmitz. (1995). Measuring the Impacts of Environmental Regulation. *American Journal of Agricultural Economics*. 77:1172-1176.

Martin, T.H., L.B. Crowder, C.F. Dumas and J.M. Burkholder. (1992). Indirect Effects of Fish on Macrophytes in Bays Mountain Lake - Evidence for a Littoral Trophic Cascade. *Oecologia*. 89(4):476-481.

### **Book Chapters**

Dumas, C. F., Watanabe, W., Daniels, H., Losordo, T., Yates, K. (2007). *Southern Flounder Growout Economics*. Raleigh, North Carolina.: Southern Flounder Production in Recirculating Aquaculture Systems: Biology, Engineering and Economics. North Carolina State University..

Burrus, R. T., Dumas, C. F., Graham, J. E. (2005). In Bradley T. Ewing, Jerry S. Rawls, and Jamie B. Kruse (Ed.), *Impacts of Insurance Deductibles and Hurricane Damage Perceptions on Mitigation Choices* (pp. 115-123). New York, New York: Nova Science Publishing.

Dumas, C. F., Schuhmann, P. W., Whitehead, J. (2005). In Larry R. Brown et al (Ed.), *Measuring the Economic Benefits of Water Quality Improvement with the Benefit Transfer Method: An Introduction for Non-Economists*. Bethesda, MD: American Fisheries Society.

Crowder, L. B., Myers, R. A., Dumas, C. F., Schuhmann, P., Freeman, S. A., Baum, J., Snover, M., Treece, A. A., Ward, P. (2004). *The Economics of Longline Fishing*. Longline Fishing in the Northwest Atlantic: A Fishery in Crisis. Pew Series in Marine Conservation. Island Press..

### **Other Research/Technical Reports**

Dumas, C. F., Bingham, F. M., Cahoon, L. B., Tobias, C. R., Skrabal, S. A., Szmant, A. (2009). *The Potential Impacts of Climate Change on Coastal North Carolina*. Wilmington, NC: [www.uncw.edu/aa/documents/UNCW%20Global%20Climate%20Change%20Final%20Report.pdf](http://www.uncw.edu/aa/documents/UNCW%20Global%20Climate%20Change%20Final%20Report.pdf)

Dumas, C. F., Whitehead, J., Landry, C., Herstine, J. (2009). *Economic Impacts and Recreation Value of the North Carolina For-Hire Fishing Fleet* (ed., pp. 171 pp.). Raleigh, NC: North Carolina Sea Grant.

Burrus, R. T., Dumas, C. F., Graham, J. E. *Hurricanes and Homeowner Decision Making*. Journal of Financial and Economic Practice.

Dumas, C. F. (2009). *Economic Impacts of the North Carolina For-Hire Ocean Striped Bass Fishery* (pp. 31 pp.). Raleigh, NC: North Carolina Sea Grant.

Dumas, C.F., and J. Wilde. (2009). *Assessing Metro Niche Market Demand for North Carolina Mariculture Products*. North Carolina Biotechnology Center. Research Triangle Park, NC. Report No. 2008-RDG-4003.

Dumas, C. F., Templeton, S. (2008). *Estimating and Analyzing the Costs of Design-Bid-Build Projects for Stream Mitigation in North Carolina*. Raleigh, NC: North Carolina Department of Environment and Natural Resources.

Dumas, C. F., Schmitz, T., Giese, C. (2007). *Economic Implications of Plant-made Pharmaceuticals in North Carolina*. Pittsboro, NC: Rural Advancement Foundation International--USA.

Dumas, C. F., Bin, P., Whitehead, J., Poulter, B. (2007). *Measuring the Impacts of Climate Change on North Carolina Coastal Resources*. Washington, DC: National Commission on Energy Policy.

- Dumas, C. F. (2006). *A Study of the Benefits of Oregon Inlet to the Economy of Dare County and the Surrounding Region* (pp. 189 pp.). Manteo, NC: Dare County, North Carolina.
- Dumas, C. F. (2005). *The Economic Impacts of Banning U.S. Longline Fishing*. Philadelphia, PA: Pew Charitable Trusts.
- Dumas, C. F., Hall, W. W. (2005). *The Economic Impacts of Medicaid in North Carolina*. Raleigh, NC: North Carolina Pediatric Society Foundation.
- Dumas, C. F., Imperial, M. T. (2005). *The Economic Impacts of the Brunswick County, NC, Communities in Schools Program*. Southport, NC.: Brunswick County Communities in Schools Program, Inc..
- Dumas, C. F. (2004). *The Economic Impact of Manufacturing Activity Decline in Robeson County, NC*. Lumberton, NC: Center for Community Action.
- Imperial, M. T., Jones, L., Dumas, C. F. (2004). *Wrightsville Beach, NC, 2003 Survey of Beachgoers*. Wrightsville Beach, NC: City of Wrightsville Beach, NC.
- Herstine, J. H., Dumas, C. F., Buerger, R., Hill, J. M., Webster, W. D. (2004). *Assessment of Ocean Beach Vehicular Use at Fort Fisher State Recreation Area* (pp. 81 pp.). Raleigh, NC: North Carolina Department of Environment and Natural Resources.
- Dumas, C. F. (2003). *The Economics of the U.S. Trawl Fishing Industry*. Washington, DC: Oceana, Inc..

#### **LICENSURES AND CERTIFICATIONS**

Human Participation Protection Education for Research Teams, National Institutes of Health. (August 22, 2003 - Present).

#### **CONTRACTS, GRANTS, AND SPONSORED RESEARCH (2003-2009)**

- Dumas, Christopher F. "Economic Impacts of Terminal Groin Beach Management Alternatives." NC Division of Coastal Management. \$20,000. (November 1, 2009 - May 31, 2010).
- Dumas, Christopher F. "Land Use / Economic Development Scenarios for the NC Sea Level Rise Risk Management Study." NC Division of Emergency Management. \$12,500. (October 1, 2009 - January 31, 2010).
- Dumas, Christopher F. "Economic Impacts of Red Snapper Management Alternatives in the South Atlantic." Pew Charitable Trusts. \$15,000. (August 15, 2009 - December 31, 2009).
- Dumas, Christopher F, Watanabe, Wade , "Establishing a pilot hatchery for production of juveniles to support the finfish mariculture industry in North Carolina," Sponsored by North Carolina Biotechnology Center, State, \$66,842.00. (July 1, 2009 - June 30, 2010).
- Dumas, Christopher F, "Supplemental Funding for Mariculture Black Sea Bass Market Research," Sponsored by North Carolina Sea Grant, State, \$700.00. (February 1, 2009 - January 19, 2010).
- Dumas, Christopher F, "Economic Impacts of the North Carolina For-Hire Striped Bass Fishery," Sponsored by North Carolina Sea Grant, State, \$2,500.00. (March 20, 2009 - September 30, 2009).

Dumas, Christopher F , "Economic Analysis for North Carolina Beach and Inlet Management Plan," Sponsored by North Carolina Department of Environment and Natural Resources, Moffatt & Nichol lead firm, \$30,000.00. (May 5, 2008 - March 31, 2009).

Dumas, Christopher F , "Assessing Metro Niche Market Demand for North Carolina Mariculture Products," Sponsored by North Carolina Sea Grant, State, \$33,730.00. (June 16, 2008 - June 15, 2009).

Dumas, Christopher F, Whitehead, John C. , Landry, Craig E. , Herstine, James H. , "Economic Impacts and Recreation Value of the North Carolina For-Hire Fishing Fleet," Sponsored by North Carolina Sea Grant Program, State, \$70,348.00. (March 1, 2007 - April 30, 2009).

Dumas, Christopher F , Hall, William W , Graham, J E , "Economic Impact Study of the Proposed River Bend at Cedar Hill Mixed-Use Development Project, Navassa Subdivision, Brunswick Co., NC.," Sponsored by Arris Construction Services, Inc., Private, \$22,000.00. (February 6, 2008 - June 30, 2008).

Dumas, Christopher F , Hall, William W , Graham, J E , "Economic Impact and Feasibility Study of the Proposed Air Force One Museum," Sponsored by North Carolina Department of Transportation, State, \$23,320.00. (June 17, 2008 - September 30, 2008).

Dumas, Christopher F , Watanabe, Wade , Losordo, Thomas , Lee, Richard , Berlinsky, David , Tomasso, Joseph , Alam, Md.Shah , Schuster, Thomas , "Commercialization of Black Sea Bass Aquaculture: Nursery, Growout and Marketing," Sponsored by National Oceanic and Atmospheric Administration (NOAA), Federal, \$400,000.00. (September 1, 2006 - August 31, 2008).

Dumas, Christopher F , Watanabe, Wade , Losordo, Thomas , Lee, Richard , Berlinsky, David , Tomasso, Joseph , Alam, Md.Shah , Schuster, Thomas , "Commercialization of Black Sea Bass Aquaculture: Nursery, Growout and Marketing," Sponsored by National Oceanic and Atmospheric Administration (NOAA), Federal, \$23,463.00. (September 1, 2006 - August 31, 2008).

Dumas, Christopher F , Watanabe, Wade , Losordo, Thomas , Lee, Richard , Berlinsky, David , Tomasso, Joseph , Alam, Md.Shah , Schuster, Thomas , "Commercialization of Black Sea Bass Aquaculture: Nursery, Growout and Marketing," Sponsored by National Oceanic and Atmospheric Administration (NOAA), Federal, \$211,163.00. (September 1, 2006 - August 31, 2008).

Dumas, Christopher F , Watanabe, Wade , Alam, Md.Shah , "Controlled Breeding, Larviculture, Intensive Growout and Marketing of High-value Marine Finfish Species for US Agriculture.," Sponsored by United States Department of Agriculture, Federal, \$293,745.00. (August 1, 2006 - July 31, 2008).

Dumas, Christopher F , "North Carolina Coastal Hazards: Economic Implications of Severe Storms and Sea-level Rise," Sponsored by University of North Carolina Research Competitiveness Fund, State, \$6,725.00. (December 3, 2007 - June 15, 2008).

Dumas, Christopher F , Herstine, James H , Whitehead, John , "Economic Impacts and Economic Benefits of Recreational Boating Along the Atlantic Intracoastal Waterway (AIWW) in North Carolina," Sponsored by Jointly sponsored by: North Carolina Department of Environment and Natural Resources; North Carolina Sea Grant; North Carolina Beach, Inlet and Waterways Association., State, \$45,200.00. (June 1, 2005 - September 30, 2007).

Dumas, Christopher F , Whitehead, John , Hall, William W , "The Economic Benefits of Oregon Inlet," Sponsored by Dare County, North Carolina., Local, \$31,600.00. (January 22, 2006 - January 31, 2007).

Dumas, Christopher F , Schmitz, Troy , "Evaluating Pharmaceutical Crops' Promise as a Rural Development Strategy in North Carolina," Sponsored by Rural Advancement Foundation International--USA., Private, \$10,000.00. (January 1, 2006 - December 31, 2006).

Dumas, Christopher F , Whitehead, John , Bin, Paul , Poulter, Ben , "Measuring the Impacts of Climate Change on North Carolina Coastal Resources," Sponsored by National Commission on Energy Policy, Private, \$50,000.00. (June 2, 2006 - December 31, 2006).

Dumas, Christopher F , Herstine, James H , Gamble, Douglas W , Meinhold, Stephen S , "An Assessment of Public Awareness of Rip Currents in New Hanover County, North Carolina.," Sponsored by North Carolina Sea Grant, State, \$3,982.00. (January 1, 2006 - December 31, 2006).

Dumas, Christopher F , Templeton, Scott , "Estimating and Analyzing the Costs of Stream Restoration in North Carolina," Sponsored by North Carolina Department of Environment and Natural Resources, State, \$83,486.00. (July 1, 2005 - June 30, 2006).

Dumas, Christopher F , Imperial, Mark T, "The Economic Impacts of the Brunswick County Community in Schools Program," Sponsored by Brunswick County Community in Schools, Local, \$6,800.00. (2005).

Dumas, Christopher F , "The Economic Impacts of Medicaid Payments in North Carolina--Further Research," Sponsored by North Carolina Pediatric Society Foundation, Private, \$10,000.00. (January 1, 2006 - December 31, 2006).

Dumas, Christopher F , Hall, William W , "The Economic Impacts of Medicaid at the County/Region Level in North Carolina," Sponsored by North Carolina Pediatric Society Foundation, Private, \$10,000.00. (May 1, 2005 - August 31, 2005).

Dumas, Christopher F , Herstine, James H , Hill, Jeffery M , Buerger, Robert , "Fort Fisher Ocean Beach Vehicle Study," Sponsored by North Carolina Department of Environment and Natural Resources, State, \$25,000.00. (2004).

Dumas, Christopher F , "Measuring the Economic Benefits of Water Quality Improvements in the New River, NC--A Feasibility Assessment," Sponsored by City of Jacksonville, NC, Local, \$5,000.00. (2004).

Dumas, Christopher F , Whitehead, John , "The Potential Economic Benefits of Coastal Ocean Observing Systems," Sponsored by North Carolina Sea Grant, State, \$31,406.00. (2004).

Dumas, Christopher F , "The Cost of Buying Out the Pelagic Longline Fishery," Sponsored by Pew Charitable Trusts, Private, \$12,000.00. (2004).

### ***PRESENTATIONS (2003-2009)***

Dumas, C. F. , Beach Management Summit, "Economic Information to Support Beach Management," UNC-Chapel Hill and NC Coastal Federation, Duke Marine Lab, Beaufort, NC. (March 11, 2009).

Watanabe, W. , Alam, M. , Dumas, C. F. , Lee, R. , Losordo, T. , DeLong, D. , Nardi, G. , Bentely, C. , Rezek, T. , Sullivan, K. , Wild, J. , Myers, A. , Aquaculture America 2009, "Progress and constraints toward Commercialization of black sea bass aquaculture in the US: hatchery, NURSERY, growout and marketing," UNCW, Seattle, USA. (February 18, 2009).

Dumas, C. F. , Whitehead, J. , Poulter, B. , Southern Economics Association Annual Conference, "Climate Change and Marine Recreation," Southern Economics Association, Washington, DC. (November 20, 2008).

Dumas, C. F. , Chambers, C. , Seel, P. , Southern Economics Association Annual Meeting, "The Impact of Beach Nourishment on Beach Hotel Room Rentals," Southern Economics Association, Washington, DC. (November 20, 2008).

Watanabe, W. , Daniels, H. , Alam, M. , Carroll, P. , Rezek, T. , Bentley, C. , Losordo, T. , Dumas, C. F. , Eighth Joint Meeting of the Seafood Science and Technology Society and Atlantic Fisheries Technology Conference in conjunction with the 1st NC Marine Biotechnology Symposium 2008, "Marine Finfish Aquaculture in North Carolina: Current Research and Commercial Pilot Initiatives.," UNCW, Wrightsville Beach, NC. (October 20, 2008).

Treme, J., Dumas, C. F., New Hanover County Health Summit: Access to Care and Impact on Our Community, "What is the Economic Impact?," UNCW. (September 19, 2008).

Dumas, C. F. , Bin, P. , U.S. Environmental Protection Agency Coastal Carolinas Ecosystems Services Planning Workshop, "Economics Research to Support Ecosystem Services Planning," U.S. Environmental Protection Agency, Research Triangle Park, NC. (July 9, 2008).

Dumas, C. F. , Ayers, A. , The Coastal Society Annual Conference, "The Economic Impacts of the Saltwater Recreation Industry in North Carolina," The Coastal Society, Redondo Beach, CA. (June 29, 2008).

Dumas, C. F. , Wilde, J. , Watanabe, W. , World Aquaculture Society Annual Conference, "Analysis of the Niche Restaurant Market for Farm-Raised Black Sea Bass, *Centropristis striata*, in North Carolina," World Aquaculture Society, Orlando, FL. (February 12, 2008).

Dumas, C. F. , Whithead, J. , Bin, P. , Poulter, B. , NC Legislative Commission on Global Climate Change, "Potential Impacts of Global Warming on North Carolina's Coastal Economy," North Carolina General Assembly, Raleigh, NC. (January 16, 2008).

Dumas, C. F. , Herstine, J. H., Gamble, D. W., Meinhold, S. S., Rogers, S., Southern Economics Association Annual Conference, "Willingness to Pay for Rip Current Awareness and Education Programs," Southern Economics Association, New Orleans, LA. (November 2007).

Dumas, C. F. , Watanabe, W. , Daniels, H., Losordo, T., Yates, K., Southern Flounder Aquaculture Workshop, "Southern Flounder Growout Economics," North Carolina State University, Wallace, NC. (September 27, 2007).

Dumas, C. F. , Templeton, S. , Sessions, W. , American Agricultural Economics Association Annual Meeting, "Estimation and Analysis of EEP-Administered Stream Restoration Project Expenses in North Carolina," American Agricultural Economics Association, Portland, OR. (July 29, 2007).

Dumas, C. F. , Watanabe, W. , Copeland, K. , World Aquaculture Society Annual Conference, "The Economics of Black Sea Bass (*Centropristis striata*) Fingerling Production in Recirculating Aquaculture Systems," World Aquaculture Society, San Antonio, TX. (February 28, 2007).

Dumas, C. F. , Whitehead, J. , Herstine, J. H. , Southern Economics Association annual conference, "The Recreation Value and Economic Impact of North Carolina's Intracoastal Waterway and Shallow Draft Inlets," Southern Economics Association, Charleston, SC. (November 18, 2006).

Dumas, C. F. , Whitehead, J. , Herstine, J. H. , North Carolina Beach, Inlet and Waterway Association Annual Meeting, "The Economics of Recreational Boating on the Atlantic Intracoastal Waterway," North Carolina Beach, Inlet and Waterway Association, Carolina Beach, NC. (November 13, 2006).

Dumas, C. F. , Watanabe, W. , Losordo, T. , Yates, K., NCSU-UNCW Southern Flounder Aquaculture Workshop, "The Economics of Southern Flounder Grow-out," NC State University, UNC-Wilmington, Raleigh, NC. (March 16, 2006).

Dumas, C. F. , Southern Economics Association annual meeting, "Estimating Peak Demand for Beach Parking Spaces," Southern Economics Association, Washington, DC. (November 18, 2005).

Dumas, C. F. , Burrus, R. T., Graham, J. E., Southern Economics Association annual meeting, "The Impact of Perceived Hurricane Risk on Homeowner Mitigation," Southern Economics Association, Washington, DC. (November 17, 2005).

Dumas, C. F. , Understanding Hurricanes, "Economics of Hurricane Impacts," UNC-Wilmington, Wilmington, NC. (September 14, 2005).

Dumas, C. F. , Herstine, J. H. , Whitehead, J. , North Carolina Beach, Inlet and Waterway Association annual meeting, "The Atlantic Intracoastal Waterway Economic Study," North Carolina Beach, Inlet and Waterway Association, Carolina Beach, NC. (September 5, 2005).

Dumas, C. F. , Tsunami Learning Workshop, "The Economics of Tsunamis," UNC-Wilmington, Wilmington, NC. (January 19, 2005).

Dumas, C. F. , Fernandez, L. , Southern Economics Association annual meeting, "Cross-Media Pollution and Incentive Mechanism Design," Southern Economics Association, New Orleans, LA. (November 21, 2004).

Dumas, C. F. , Burrus, R. T. , Graham, J. E. , Southern Economics Association annual meeting, "Estimates of Coastal Homeowner Risk Aversion to Hurricane Damage," Southern Economics Association, New Orleans, LA. (November 21, 2004).

Dumas, C. F. , Hall, W. W. , National Conference on Job Loss and Recovery in Rural America, "The Economic Impact of Manufacturing Decline in Robeson County, NC, 1993-2003," Lumberton, NC. (October 1, 2004).

Dumas, C. F. , Whitehead, J. , Southern Economics Association annual meeting, "The Impact of Beach Nourishment Projects on Beach Visitation," Southern Economics Association, San Antonio, TX. (November 20, 2003).

Dumas, C. F. , Burrus, R. T. , Graham, J. E. , Southern Economics Association annual meeting, "The Impactso of Insurance Deductibles and Hurricane Damage Perceptions on Mitigation Choices," Southern Economics Association, San Antonio, TX. (November 20, 2003).

Dumas, C. F. , Duke University Marine Science Seminar, "U.S. Trawl Fisheries -- Diversity, Economics and the Question of Sustainability," Duke University, Beaufort, NC. (October 10, 2003).

## ***TEACHING***

### Undergraduate --

- ECN 221. Principles of Economics-Micro.
- ECN 321. Intermediate Microeconomics.
- ECN 325. Environmental Economics.
- ECN 422. Econometrics.
- ECN 495. Economic Impact Analysis.

### Graduate --

- MBA 533. Game Theory for Managers.
- PLS 501. Quantitative Methods for Public Administration.
- PLS 544. Natural Resource Economics for Public Administration.

***SERVICE (2003-2009)******Professional Service***

Reviewer, Journal of Environmental Economics and Management. (1998 - 2009).  
 Reviewer, Coastal Management Journal. (2005 - 2009).  
 Reviewer, Journal of the World Aquaculture Society. (2005 - 2009).  
 Reviewer, Natural Hazards Review. (2005 - 2009).  
 Reviewer, Water Resources Research. (2004 - 2009).  
 Reviewer, Marine Resource Economics. (2003 - 2009).  
 Reviewer, Aquaculture Economics and Management. (2001 - 2009).  
 Reviewer, Agricultural and Resource Economics Review. (2005 - 2009).  
 Technical reviewer, Socioeconomic Research and Monitoring Program for Florida Keys National Marine Sanctuary. (2008).  
 Committee Member, South Atlantic Fishery Management Council, Scientific and Statistical Advisory Committee, Charleston, SC. (2004 - 2007, 2009-).  
 Technical reviewer, Living Shorelines Summit Report, Virginia Institute of Marine Sciences. (2007).  
 Program budget reviewer, North Carolina Sea Grant Program, Raleigh, NC. (2007).  
 Reviewer, Book, Sea Turtle Restoration Project, Forest Knolls, CA. (2004).

***University Service***

University Senate Service, UNCW Faculty Senate. (2008 - 2010).  
 Committee Member, UNCW Faculty Professional Relations Committee (2009-2010).  
 Committee Member, UNCW Budget and Fee Committee. (2007 - 2010).  
 Committee Member, UNCW Basic Studies Committee. (2006 - 2009).  
 Committee Member, UNCW Center for Teaching Excellence. (2006 - 2009).  
 Committee Member, UNC Tomorrow. (2007 - 2008).  
 Committee Member, UNCW Regional Health Summit planning Committee. (2007 - 2008).  
 Committee Member, UNCW Center for Marine Science Advisory Committee. (2006 - 2008).  
 Committee Member, UNCW Ev-Henwood Property Mgmt. Committee. (2006 - 2008).  
 Presenter, UNCW New Faculty Orientation. (2006 - 2008).  
 Committee Member, UNCW Coastal and Ocean Policy Masters Program development Committee. (2005 - 2008).  
 Committee Chair, UNCW Report on Impacts of Global Warming on Coastal NC. (August 15, 2008 - November 30, 2008).  
 Special Institutional Assignment, UNCW Delegate to UNC-Coastal Science Institute advisory Committee. (2006).  
 Committee Member, UNCW Grant Policy Advisory Committee. (2004 - 2005).  
 Committee Member, UNCW MS Environmental Studies program development Committee. (2004).  
 Committee Member, UNCW MS Marine Science program review Committee. (2004).  
 Committee Member, UNCW International Programs Grant Review Committee. (2001 - 2004).  
 Committee Member, UNCW Disaster Resistant Universities grant development committee. (2003).  
 Committee Member, UNCW Chancellor's Faculty Advisory Committee. (2003).

***College Service***

Committee Member, CSB Beta Gamma Sigma Award Ceremony. (2007 - 2009).  
 Committee Chair, CSB Faculty Grant Training Materials and Presentation. (2008).  
 Committee Member, CSB Grade Appeal Committee. (2007).  
 Committee Member, CSB Computer Competency Testing Committee. (2006 - 2007).  
 Committee Member, CSB Strategy Committee. (2004 - 2006).

Committee Member, CSB Recruiting Committee -- IT director. (2004).  
Committee Member, CSB Student Recognition Day Ceremony. (2004).  
Committee Member, CSB Technology Committee. (1997 - 2004).  
Committee Member, CSB Mission/Vision Task Force. (2003).  
Committee Member, CSB Research Committee. (1998 - 2003).

*Department Service*

Dept. Delegate to Faculty Senate. (2008 - 2009).  
Committee Chair, Visiting Faculty Hosting Committee. (2008).  
Committee Chair, Dept. Library Representative. (2006 - 2008).  
Committee Member, Dept. Curriculum Development Committee--Masters Econ Courses. (2007).  
Committee Member, Faculty Search Committee. (2007).  
Committee Chair, Visiting Faculty Hosting Committee. (2007).  
Faculty Advisor, Student Organization Advisor -- NABE. (1998 - 2007).  
Attendee, Meeting, Dept. Delegate to CSB Strategy Committee. (2004 - 2006).

*Public Service*

Board Member, Cape Fear River Assembly. (2000 - 2006).  
Board Member, Cape Fear River Watch, Inc.. (2000 - 2006).  
Officer, Treasurer, Cape Fear River Watch, Inc.. (2001 - 2004).  
Committee Member, Cape Fear Chemical Advisory Panel (CAP). (1998 - 2003).

**A. Tamlyn Shields, M.A., BCBA**  
Office: 5051 New Centre, Room 211  
University of North Carolina Wilmington • Wilmington, NC  
(910) 962-7964 shieldsa@uncw.edu  
Home: 802 Francis Marion Dr. • Wilmington, NC 28412  
(252) 341-2542

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**Academic Education:**

*East Carolina University, Greenville, North Carolina—August 2002*  
M.A. Exercise and Sport Science, Concentration in Exercise Physiology  
2002 NC Association for Behavior Analysis Student Scholarship Award  
2002 ECU Retired Faculty Alumni Scholarship  
2001 Catherine Virginia McCulley Memorial Endowment Fund recipient

*East Carolina University, Greenville, North Carolina—August 1997- May 2000*  
B.S. Exercise and Sport Science, Exercise Physiology option  
2000 Outstanding Graduate in Exercise Physiology

*Wake Forest University, Winston Salem, North Carolina— August 1996-May 1997*

**Specialized Training:**

*Dept of Psychology—East Carolina University, Greenville, North Carolina*

- *Completed over 800 hours of instruction and 19 months of supervision in order to sit for the Board Certified Behavior Analyst exam (certified Dec. 31, 2004); first non-psychologist to be certified in the state*

**Professional Experience:**

***Obesity Prevention Initiative Coordinator— June 2008-present***

Dept. of Health and Applied Human Sciences, University of North Carolina Wilmington,

Wilmington, NC

- *Coordinate grant funded programs awarded to the Obesity Prevention Initiative serving in New Hanover County; work to secure additional grant funding for interventions to prevent and treat overweight and obesity; encourage networking for future obesity prevention initiatives among Cape Fear Healthy Carolinian partners*

***Social Research Associate—2004-June, 2008***

Dept. of Exercise and Sport Science—Human Performance Laboratory, East Carolina University, Greenville, NC

- *Coordinated the STRRIDE study, a collaborative effort with Duke University that was designed to examine the peripheral effect of exercise on cardiovascular health (RO1*

*grant from National Institute of Health)- recruited, scheduled, and assessed participants, and supervised exercise intervention*

- *Coordinated a collaborative study with the Children's National Medical Center entitled, "Genetic risk factors for metabolic syndrome in minority populations"*
- *Coordinated a collaborative study entitled "Physical Activity Following Surgery-Induced Weight Loss," which examines the effect of physical activity on metabolic risk factors, intramyocellular lipid, and mitochondria function and content in obese patients during weight loss from bariatric surgery (RO1 grant from National Institute of Health)*
- *Assisted with the stress testing aspect of the Human Performance Lab's Cardiovascular Risk Assessment Program program, which is designed to identify participants' heart disease risk status, and provide recommendations for a healthier lifestyle*
- *Assisted with development, planning, and institutional approval for new studies*

#### **Graduate Faculty Member— Fall 2005- June 2008**

Dept. of Exercise and Sport Science, East Carolina University, Greenville, NC

- *Instructor for Exercise Adherence (EXSS 5020) from Fall 2005-Spring 2006 and Exercise Evaluation and Prescription (EXSS 4806) from Fall 2007-present*
- *Scheduled guest speaker for Applied Behavior Analysis (PSYC 6333) since Fall 2004, Behavioral Assessment and Intervention (PSYC 6353) since Spring 2005, and Special Topics in Exercise and Sports Science (EXSS 4003) since Spring 2006*
- *Guest lecturer in Introductory Exercise and Sports Science (EXSS 2000) (Spring 2008)*

#### **Consultant—2004**

Pitt County Health and Human Services

- *Created physical activity equipment packages and manuals for elementary school classrooms and physical education teachers across the county; partnered with Communities and Schools to create a walking trail at G.R. Whitfield Elementary School.*

#### **Consultant—2003-2005**

North Carolina Department of Public Instruction

- *Worked on a team that created and pilot tested "Energizers", a collection of 10 minute classroom-based physical activities for elementary students; designed to assist students in meeting the NC Board of Education's Healthy Active Children's Policy; currently in use at various schools across the nation; available free for teachers to download at <http://www.ncpe4me.com/energizers.html>.*
- *Worked on a team that created and pilot tested "Middle School Energizers", a collection of 10 minute classroom-based physical activities for middle school students; the activities incorporate academic material and meet specific NC Standard Course of Study requirements; currently in use at various schools across the nation; available free for teachers to download at <http://www.ncpe4me.com/energizers.html>.*

#### **Physically Active Sensible Eaters (PHASE) Program Director—2003-2004**

Activity Promotion Laboratory, East Carolina University, Greenville, NC

- *Coordinated a physically active after-school program at a public elementary school in Pitt County; developed behavior modification programs to encourage students and staff to adopt healthier behaviors; trained and supervised high school students who served as Physical Activity Leaders for the students*
- *Supervised participant testing, data collection, and data entry (using SPSS)*

- *Worked on team that secured a grant from the Pitt Memorial Hospital foundation to investigate the effect of Energizers on the on-task behavior of students*

**Assistant Director of the Growing Up Fit! Program—January 2003- September 2003**

Agromedicine Institute, East Carolina University, Greenville, NC

- *Developed and instituted programs that promoted physical activity and healthy eating among elementary students in Pitt County schools; travelled county wide to implement health promotion programs for the school day and after school; trained and supervised 15-20 undergraduate and graduate students who worked as mentors in the schools; taught nutrition education in the classroom to 3<sup>rd</sup>-5<sup>th</sup> grade students.*

**Personal Fitness Trainer—2003- 2005**

Elite Fitness Trainers, Greenville, NC

- *Worked one-on-one with a variety of clients developing specific exercise prescriptions and resistance training programs to aid in personal goal attainment.*

**Publications and Presentations:**

Bateman, LA, Slentz, CA, Willis, LH, Blackburn, T, Shields, AT, Tanner, CJ, Houmard, JA, & Kraus, WE. (2008). Inactivity and exercise (aerobic versus resistance) effects on liver and visceral fat. Paper presented at the American Diabetes Association Annual Convention, San Francisco, CA.

Willis, LH, Slentz, CA, Bateman, LA, Shields, AT, Piner, L, Houmard, JA, Kraus, WE (2008). Inactivity and Exercise Effects on Body Composition: STRRIDE II. Paper presented at the American Diabetes Association Annual Convention, San Francisco, CA.

Shields, AT & Golden, JA (2007). The effect of a classroom-based physical activity program on physical activity and on-task behavior. Paper presented at the North Carolina Association for Behavior Analysis Annual Convention, Wrightsville Beach, NC.

Mahar, MT, Murphy, SK, Rowe, DA, Golden, J, Shields, AT, & Raedeke, TD (2006). Effects of a classroom-based program on physical activity and on-task behavior. *Medicine and Science in Sports and Exercise*. Dec; 38(12):2086-94.

Mahar, M.T., Murphy, S.M., Rowe, D.A., Golden, J., Shields, A.T., & Raedeke, T.D. (2006). Effects of a classroom-based physical activity program on physical activity and on on-task behavior in elementary school children. Paper presented at the American College of Sports Medicine Annual Meeting, Denver, CO.

Murphy, SK, Shields, AT, Mahar, MT, Golden, J, & Lester, E. (2005). Applying behavior analysis for IMPACT: Increasing motivation for physical activity among children and teachers. Paper presented at the North Carolina Association of Behavior Analysts Conference, Wrightsville Beach, NC.

Mahar, MT, & Shields, AT (2004). Promoting physical activity in children through after-school and faculty wellness programs. Presentation at the Wake County Human Services 6<sup>th</sup> Annual Community Forum, Raleigh, NC.

Shields, AT, McCammon, MR, Mahar, MT, Raedeke, TD, Slentz, CA, Kraus, WE, & Houmard, JA (2003). The effect of structured exercise intensity and volume on spontaneous physical activity in adults. *Medicine and Science in Sport and Exercise*, 35, S392.

Shields, AT & Golden, JA (2003). Increasing minutes of active recess for elementary school children through a changing criterion with multiple baselines research design. Paper presented at the Florida Association for Behavior Analysis Annual Convention, St. Petersburg, FL.

Shields, AT (2002). Contingency contracting with a family to increase physical activity level and decrease eating out. Paper presented at the North Carolina Association for Behavior Analysis Annual Conference, Asheville, NC.

Shields, AT (2002). Using a step counter and contingency contracting to improve exercise and eating patterns of a sedentary family with teenage boys. Paper presented at the Florida Association for Behavior Analysis Annual Convention, Daytona, FL.

Shields, AT, McCammon, MR, Mahar, MT, Raedeke, TD, Slentz, CA, Kraus, WE, & Houmard, JA (2001). Does exercise training influence spontaneous physical activity in adults? Paper presented at the North Carolina Institute of Nutrition Annual Research Symposium, Chapel Hill, NC.

### **Grant Proposals (selected)**

2009 U.S. Department of Health and Human Services – Office on Disability: I can do it, You can do it: A mentoring program between UNC Wilmington students and children and young adults with disabilities to encourage regular physical activity and good nutrition. Submitted with Combs, Elliott, Dowd, & Kinney. Funded for \$14, 987.

2009. National Gardening Association and The Home Depot – Youth Garden Grant: A community garden program aimed at preserving green space, providing educational opportunities for children residing at the Hillcrest Community public housing development, increasing consumption of fresh vegetables among this population, improving community engagement and citizenship, and building diverse community partnerships that will allow the gardening project to be sustainable. Submitted with Aldrich. Funded for \$500.

2004. Pitt Memorial Hospital Foundation: Increasing Motivation for Physical Activity iChildren and Teachers (IMPACT): An investigation of the effect of a classroom-based physical activity program on physical activity and on-task behavior in elementary school children. Funded for \$50,000.

### **Professional Certifications:**

American College of Sports Medicine, Exercise Specialist  
Behavior Analyst Certification Board, Board Certified Behavior Analyst  
American Heart Association Heart Saver CPR and AED certification

### **Professional Organizations:**

American College of Sports Medicine  
North Carolina Association of Behavior Analysis

### **Community Involvement:**

*Ordained Elder and Stephen Minister at Peace Presbyterian Church; Junior and Senior High Sunday School Substitute Teacher; Organizing team member for ECU's Take Back the Night march; Advertising team leader for V-DAY 2008 at UNCW (to raise awareness of and help prevent violence towards women and children); assist in fundraising and programming for The Ulster Project (peace project for teens from northern Ireland); Chair of the 2008 Clergy Renewal*

*Program at Peace Presbyterian Church; SEANC community volunteer (feeding homeless shelter, adopt a city street).*

**JAMES H. HERSTINE, Ph.D.**Home Information

137 Combine Lane SE  
 Leland, NC 28451-9609  
 Home Phone: 910.253.9330  
 E-mail: [herstinei@atmc.net](mailto:herstinei@atmc.net)

Office Information

Department of Health and Applied Human Sciences  
 University of North Carolina Wilmington (UNCW)  
 HAHS Office Suite, 119 – C  
 601 South College Road  
 Wilmington, North Carolina 28403-5956  
 Office Phone: 910.962.3283  
 Office Fax: 910.962.7370  
 E-mail: [herstinei@uncw.edu](mailto:herstinei@uncw.edu)

EDUCATION

**Doctor of Philosophy – Forestry.** Areas of Concentration: Major—Natural Resource Management. Minor—Parks, Recreation and Tourism Management. College of Forestry, North Carolina State University, Raleigh, North Carolina. August 2000

**Master of Science in Recreation Administration.** University of North Carolina—Chapel Hill, Chapel Hill, North Carolina. May 1979

**Master of Arts in International Relations.** University of Southern California, Los Angeles, California. January 1975

**Bachelor of Arts in Psychology.** Wake Forest University, Winston-Salem, North Carolina. June 1970

EXPERIENCE

**August 2006—Present: Tenured, Associate Professor,** Department of Health and Applied Human Sciences, College of Arts and Sciences, University of North Carolina Wilmington (UNCW). Responsibilities: develop, teach and evaluate undergraduate courses in the areas of human dimensions of natural resource management and leisure service management. Specific courses include—Practicum in Recreation Services, Internship in Leisure Services, Risk Management and Liability in Recreation Services, Facility Planning and Design, Directed Individual Study, Coastal Recreation Resource Management, Leadership and Management of Recreation Services, Management of User-Oriented Natural Resource Areas, and, Advanced Human Resources Management and Financing Recreation Services. Research interests include: physical, social and economic impacts of natural resource based recreation, user perceptions of natural resources, and leisure service management strategies. Additional university, department and community responsibilities include student advisement, university committee work, department committee work, Honors Program supervision, and community service. I also teach courses in the Department of Environmental Studies and the Department of Public and International Affairs at UNCW

**June 2002—Present: Graduate School Faculty,** University of North Carolina Wilmington (UNCW). Responsibilities: develop, teach and evaluate graduate courses in the Masters of Public Administration degree program and the Environmental Studies certificate program. Specific courses include: PLS 520—Seminar in Coastal Processes and Problems; PLS 522—Issues in Coastal Management; PLS 591—Directed Independent Study; EVS 501—Introduction to Environmental Problems and Policy; and, EVS 591—Directed Independent Study

**August 2000—July 2006: Assistant Professor,** Department of Health and Applied Human Sciences, College of Arts and Sciences, University of North Carolina Wilmington (UNCW). Responsibilities: develop, teach and evaluate undergraduate courses in the areas of human dimensions of natural resource management and leisure service management. Specific courses include—Practicum in Recreation Services, Internship in Leisure Services, Risk Management and Liability in Recreation Services, Facility Planning and Design, Directed Individual Study, Coastal Recreation Resource Management, Leadership and Management of Recreation Services, and, Advanced Human Resources Management and Financing Recreation Services. Research interests include: physical, social and economic impacts of natural resource based recreation, user perceptions of natural resources, and leisure service

management strategies. Additional university, department and community responsibilities include student advisement, university committee work, department committee work, Honors Program supervision, and community service

### **COURSES TAUGHT at UNCW**

#### **Undergraduate Courses**

- REC 265—Introduction to Recreation Services
- REC 270—Program Planning and Evaluation
- REC/EVS 294-01—Natural Resource, Environment and Natural Heritage Management in Scotland, UK
- REC/EVS 294-02—Special Topics in Natural Resource, Environment and Natural Heritage Management in Scotland, UK
- REC 348—Practicum in Recreation Services
- REC 351—Travel and Tourism
- REC 352—Tourism and Commercial Recreation
- REC 359—Research and Evaluation in Recreation
- REC 362—Special Issues in Recreation Services
  - North Carolina Coastal Issues and Experience
  - Cape Fear River Issues and Experience
- REC 366—Coastal Recreation Resource Management
- REC 375—Leadership and Management of Parks and Recreation Services
- REC 440—Risk Management and Liability in Recreation Services
- REC 448—Advanced Field Experience in Recreation
- REC 465—Park Planning and Design
- REC 465—Facility Planning and Design
- REC 475—Advanced Human Resource Management and Financing Recreation Services
- REC 491—Directed Individual Study
- REC 495—Seminar in Recreation
- REC 498—Internship in Parks and Recreation Services
- REC 499—Honors Work in Recreation
- EVS 471—Management of User-Oriented Natural Resource Areas
- EVS 495—Seminar in Environmental Studies
- UNI 101—Freshman Seminar

#### **Graduate Courses**

- EVS 501—Introduction to Environmental Problems and Policies
- EVS 591—Directed Individual Study
- EVS 595—Seminar/Final Project
- PLS 520—Seminar in Coastal Processes and Problems
- PLS 522—Issues in Coastal Management
- PLS 591—Directed Individual Study

### **AWARDS AND RECOGNITIONS**

- Recognized every semester since the fall semester 2000 by at least one graduating senior as the faculty member who has had a significant impact on them while attending UNC Wilmington
- 2007 UNCW Chancellor's Teaching Excellence Award, College of Arts and Sciences
- 2004 – 2005 Who's Who Among America's Teachers and Educators, 9<sup>th</sup> Edition, Volume IV

### PROFESSIONAL AND PUBLIC AFFILIATIONS

- ◆ NORTH CAROLINA RECREATION AND PARK ASSOCIATION (#79025)—2000 – present
- ◆ NATIONAL RECREATION AND PARK ASSOCIATION (#66025)—2000 – present
- ◆ NORTH CAROLINA COASTAL FEDERATION—2000 – present
- ◆ CAPE FEAR RIVER WATCH—2000 – present
- ◆ NORTH CAROLINA COASTAL LAND TRUST—2003 – present
- ◆ ENVIRONMENTAL EDUCATORS OF NORTH CAROLINA—2000 – 2004
- ◆ NORTH CAROLINA ALLIANCE FOR ATHLETICS, HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE—2000 – 2002

### RESEARCH INTERESTS/AREAS

- ◆ *Diverse Physical Impacts to the Natural Resources of the North Carolina National Estuarine Research Reserve: Understanding Management Implications*
- ◆ *Recreational Boating Interests and Patterns in North Carolina's Coastal Waters*
- ◆ *North Carolina's Public Beach and Coastal Waterfront Access Program*
- ◆ *Conflict Management in Leisure Service Organizations*
- ◆ *Employee Motivation*
- ◆ *Implications of Longitudinal Physical Impacts on Masonboro Island and Rachel Carson National Estuarine Research Reserves*
- ◆ *Carrying Capacity Implications on Masonboro Island and Rachel Carson National Estuarine Research Reserves*
- ◆ *Peak Hour and Annual User Demand on Federal Protected Shorelines*
- ◆ *Human Dimensions of Barrier Island and Estuarine Island Management*
- ◆ *The Impact of Hurricanes on the Recreational Use of Barrier and Estuarine Islands*
- ◆ *Masonboro Island Recreational Impact Hypermedia Database*
- ◆ *An Assessment and Reassessment of Recreational Impacts on Masonboro Island*

### PUBLICATIONS

#### JOURNAL ARTICLES, BOOK CHAPTERS, TECHNICAL REPORTS, ABSTRACTS AND PROCEEDINGS—Peer Reviewed

- 1) Whitehead, J., Dumas, C., **Herstine, J.**, Hill, J., & Buerger, B. (2008). *Valuing beach access and width with revealed and stated preference data*. Marine Resource Economics 23, 2, xx – xx [Refereed Scholarly Journal]
- 2) **Herstine, J.**, Whitehead, J. & Dumas, C. (2007). *Assessing the economic benefits and economic impacts of recreational boating on the Atlantic Intracoastal Waterway in North Carolina*. In Book of Abstracts: The Thirteenth International Symposium on Society and Resource Management. (p. 200). Park City, Utah. Utah State University [Refereed Abstract]
- 3) Hill, J., **Herstine, J.**, Buerger, R., Dumas, C., & Whitehead, J. (2007). *Development of a methodology to predict public parking and access requirements sufficient to accommodate projected annual and peak visitation demand for a nourished beach*. In Book of Abstracts: The Thirteenth International Symposium on Society and Resource Management. (p. 203). Park City, Utah. Utah State University [Refereed Abstract]
- 4) **Herstine, J.**, Hill, J. & Buerger, B. (2007). *Managing human activity and tourism impacts: A case study of Zeke's Island Reserve, North Carolina*. Tourism in Marine Environments, 3, (2), 163 – 172 [Refereed Scholarly Journal]
- 5) Hill, J., **Herstine, J.**, Buerger, B., Webster, D., & Dumas, C. (2006). *Balancing beachfront vehicular access with endangered species protection: A case study at Fort Fisher State Recreation Area, North Carolina, USA*. In Book of Abstracts: The Twelfth International Symposium on

Society and Resource Management. (p. 134). Vancouver, BC, Canada. Simon Fraser University [Refereed Abstract]

6) **Herstine, J.**, Hill, J. & Buerger, R. (2005). *Coastal recreation resource management*. In P. Gaskill (Ed.) Introduction to Leisure Services in North Carolina (5<sup>th</sup> Edition). Dubuque, IA: Kendall/Hunt [Book Chapter]

7) **Herstine, J.**, Hill, J., Buerger, R. & Isom, C. (2005). *Determination of recreation demand for federal shore protection study areas: Bogue Banks, Surf City and North Topsail Beach, Topsail Beach and Brunswick County Beaches, North Carolina* [4 Volumes]. U.S. Army Corps of Engineers [Refereed Technical Report].

8) Buerger, B., Hill, J. & **Herstine, J.** (2005). *Coastal tourism and public access: A case study of North Carolina beaches in the United States*. In A. Sena, O. Ferreira, P. Noronha, F. Gomes, T. Pinto, F. Correia, & L. das Neves (Editors). The International Conference on Coastal Conservation and Management in the Atlantic and Mediterranean: Book of Abstracts. (pp. 223 – 225) [Refereed Abstract].

9) **Herstine, J.**, Hill, J. & Buerger, R. (2005). *Assessment of ocean beach vehicular use at Fort Fisher State Recreation Area, Kure Beach, North Carolina*. North Carolina Department of Environment and Natural Resources [Refereed Technical Report].

10) Hill, J., **Herstine, J.**, Buerger, R., Tagliarini, G., & Isom, C. (2004). *Challenges in automated pattern recognition in coastal natural resource management*. In L. Cantoni, & C. McLoughlin (Eds.) Proceedings of ED-MEDIA 2004: World Conference on Educational Multimedia, Hypermedia and Telecommunications. (pp. 2000-2007). Charlottesville, VA: Association for the Advancement of Computing in Education [Refereed Proceedings].

11) Hill, J., **Herstine, J.**, Buerger, R., & Isom, C. (2004). *Understanding latent demand for coastal recreation in North Carolina*. In Book of Abstracts: The Tenth International Symposium on Society and Resource Management. (p. 79). Ft. Collins, CO: Colorado State University [Refereed Abstract].

12) Isom, C., **Herstine, J.**, Hill, J., & Buerger, R. (2004). *Utilizing focus groups to determine coastal community beach access needs in southeastern North Carolina*. In The Coastal Society 19th International Conference: Book of Abstracts. (pp. 259-262). Alexandria, VA: The Coastal Society [Refereed Abstract].

13) Buerger, R., Hill, J., **Herstine, J.**, & Isom, C. (2004). *Perceptual differences between residents and visitors toward public access at North Carolina's oceanfront beaches*. In P. Tierney, & D. Chavez (Eds.) Abstracts of the Fourth Social Aspects and Recreation Research Symposium. (p. 76). San Francisco, CA: San Francisco State University [Refereed Abstract].

14) **Herstine, J.**, Barry, R. & Isaacs, R. (2003). *Effect of moral appeals on sand dune trampling*. In Proceedings of the 13th Biennial Coastal Zone 2003 Conference. CD – ROM. Baltimore, MD [Refereed Proceedings].

15) Buerger, R., Hill, J., **Herstine, J.**, Auger, D., & Taggart, J. (2003). *Re-emerging recreational use patterns on an undeveloped barrier island following the impact of hurricanes: A North Carolina case study*. Society and Natural Resources Journal, 16, (6), 527 – 539 [Refereed Scholarly Journal].

16) **Herstine, J.**, Hill, J., & Buerger, R. (2003). *Reaching students via the experiential classroom process*. In R. Poffe, S. Guthrie, J. Kafsky-DeGarmo, T. Stenger, & W. Taylor (Eds.) Proceedings of the 16th Annual International Conference on Outdoor Recreation and Education. (pp. 91-96). Bloomington, IL: Association of Outdoor Recreation and Education [Refereed Proceedings].

- 17) **Herstine, J.**, Auger, D., Hill, J., & Buerger, R. (2002). *Equine impacts and the implications for resource managers*. In A. Ewert, A. Voight, D. McLean, B. Hronek, & G. Beilfuss, (Eds.) Book of Abstracts: The Ninth International Symposium on Society and Resource Management. (pp. 217-219). Bloomington, IN: Indiana University [Refereed Abstract].
- 18) **Herstine, J.**, Auger, D., Hill, J., & Buerger, R. (2001). *A passive approach to the management of camping behavior: The use of regulatory signage on the Zeke's Island component of the North Carolina Estuarine Research Reserve Program*. In S. Rebach (Ed.) 2001 North Carolina Coastal Plains Paddle Trails Research Conference Proceedings (pp. 88-96). Raleigh, NC: North Carolina Sea Grant [Refereed Proceedings].
- 19) Buerger, R., Hill, J., **Herstine, J.**, & Auger, D. (2001). *The changing human dimension of recreational use on Masonboro Island following a hurricane*. In S. Rebach (Ed.) 2001 North Carolina Coastal Plains Paddle Trails Research Conference Proceedings (pp. 97-100). Raleigh, NC: North Carolina Sea Grant (also appears in Urban Harbors Institute (Eds.), Coastal Zone 99: Abstracts of Presentations) [Refereed Abstract].
- 20) Buerger, R., Hill, J., Taggart, J., **Herstine, J.**, & Auger, D. (2001). *The effect of regulatory signs on camping behavior in the coastal environment: A case study of the Zeke's Island National Estuarine Research Reserve*. In The Proceedings of the 12th Biennial Coastal Zone Conference (pp. 1-4). Charleston, SC: National Oceanic and Atmospheric Administration [Refereed Proceedings].
- 21) Buerger, R., Hill, J., Taggart, J., & **Herstine, J.** (2000). *Changes in coastal recreational use patterns following hurricanes*. In R. Burdige, J. Miles, D. Alper, & L. Kruger (Eds.) Proceedings of the Eighth International Symposium on Society and Resource Management (p. 43). Portland, OR: USDA Forest Service [Refereed Proceedings].
- 22) Buerger, R., Hill, J., **Herstine, J.**, & Taggart, J. (2000). *The impact of recreation on barrier islands: A case study on Masonboro Island*. Coastal Management, 28 (3), 249-259 [Refereed Scholarly Journal].
- 23) Bennett, J., Perko, M., & **Herstine, J.** (2000). *1988 – 1998 National practices in K-12 health education and physical education teacher certification*. Journal of Health Education, 31, 3, 143 – 148 [Refereed Scholarly Journal].
- 24) Buerger, R., Hill, J., Taggart, J., & **Herstine, J.** (1999). *The impact of hurricanes on recreational use of barrier islands*. In Urban Harbors Institute (Eds.), Coastal Zone 99: Abstracts of Presentations (pp. 830-832). Boston: University of Massachusetts [Refereed Abstract].
- 25) Hill, J., Buerger, R., Kiefer, R., & Herstine, J. (1999). *Digital mentoring in virtual environments: A case study in coastal science education*. In D. A. Thomas (Ed.), Proceedings of M/SET 99: International Conference on Mathematics/Science Education and Technology (pp. 477-481). Charlottesville, VA: Association for the Advancement of Computing in Education [Refereed Proceedings].
- 26) Buerger, R., Hill, J., Taggart, J., & **Herstine, J.** (1998). *Human dimensions in barrier island management: Determining the role of natural physical processes in the mitigation of recreational impacts*. Proceedings of the Seventh International Symposium on Society and Resource Management (p. 205). Columbia, MO: University of Missouri – Columbia [Refereed Proceedings].
- 27) Buerger, R., Hill, J., Taggart, J., & **Herstine, J.** (1997). *Understanding recreational use on barrier islands: Impact, mitigation, and management*. In M. Miller (Ed.), Proceedings of Coastal Zone 97 (pp. 422-424). New York: American Society of Civil Engineers [Refereed Proceedings].

28) Hill, J., Buerger, R., & **Herstine, J.** (1997). *Implications for virtual reality in natural resource recreation management curricula*. In T. Muldner & T. Reeves (Eds.), Proceedings of ED-MEDIA 97: World Conference on Educational Multimedia and Hypermedia (pp. 1234-1235). Charlottesville, VA: Association for the Advancement of Computing in Education (see also ED-MEDIA 98 proceedings) [Refereed Proceedings].

29) Buerger, R., Hill, J., **Herstine, J.**, & Taggart, J. (1995). *The impact from recreational use on the physical features of Masonboro Island, NC*. In B. Edge (Ed.), Proceedings of Coastal Zone 95 (pp. 235-236). New York: American Society of Civil Engineers [Refereed Proceedings].

30) Buerger, R., Taggart, J., **Herstine, J.**, & Hill, J. (1994). *Understanding recreational impact in Masonboro Island*. In T. E. Bigford (Ed.), Proceedings of the Coastal Society's 14th International Conference (pp. 129-132). Charleston, SC [Refereed Proceedings].

#### **TECHNICAL REPORTS AND DOCUMENTS—Non-Peer Reviewed**

1) **Herstine, J.** 2009 – 2014 Parks, Recreation and Open Space Master Plan. City of Wilmington, NC. In-Progress.

2) **Herstine, J.** 2009 – 2014 Parks, Recreation and Open Space Master Plan. City of Boiling Spring Lakes, NC. In-Progress.

3) **Herstine, J.** Bicycle and Pedestrian Plan and Design. Town of Kure Beach, NC. In-Progress.

4) **Herstine, J.** Bicycle and Pedestrian Plan and Design. Town of Carolina Beach, NC. In-Progress.

5) **Herstine, J.** 2008 – 2013 Parks, Recreation and Open Space Master Plan. Town of Carolina Beach, NC. Adopted 2008.

6) **Herstine, J.** 2007 – 2012 Parks, Recreation and Open Space Master Plan. Town of Wrightsville Beach, NC. Adopted 2007.

7) **Herstine, J.** City of Wilmington 2003 – 2008 Parks and Recreation Facility Master Plan. Wilmington, NC. Adopted 2003.

8) **Herstine, J.** Brunswick County 2002 – 2007 Parks and Recreation Master Plan. Brunswick County, NC. Adopted January 2002.

#### **PROFESSIONAL MAGAZINE AND NEWSLETTER ARTICLES**

1) **Herstine, J.** (Spring 2002). *Part II: Appropriately identifying and employing suitable conflict management and conflict resolution tools and techniques*. Management Strategy, 26, 1, 1 & 4. Sagamore Publishing, Champaign, IL.

2) **Herstine, J.** (Winter 2001). *Part I: Myths, causes and sources of conflict—learn to recognize and appreciate them!* Management Strategy, 25, 4, 1 & 7. Sagamore Publishing, Champaign, IL.

#### **JOURNAL ARTICLES, BOOK CHAPTERS, TECHNICAL REPORTS, ABSTRACTS AND PROCEEDINGS—Peer Reviewed [Under Consideration]**

1) Dumas, C., **Herstine, J.**, Buerger, B., Hill, J. and Whitehead, J. *Estimating peak demand for beach parking spaces* [Under review for inclusion in Coastal Management]

2) Dumas, C., Whitehead, J., **Herstine, J.**, Buerger, B. and Hill, J. *Estimating peak demand for beach parking spaces under capacity constraints* [Under review for inclusion in Regional Science and Urban Economics]

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3) Whitehead, J., Dumas, C., **Herstine, J.**, Hill, J., and Buerger, B. *Joint estimation of revealed and stated preferences data to estimate the benefits of improved beach access and increased beach width* [Under review for inclusion in Marine Resource Economics]

4) Whitehead, J., Dumas, C., and **Herstine, J.** *Recreational boater willingness to pay for a dredging and maintenance program for the Atlantic Intracoastal Waterway in North Carolina* [Under review for inclusion in Ocean and Coastal Management]

5) Dumas, C., **Herstine, J.**, Gamble, D., and Meinhold, S. *Willingness to pay for rip current awareness and education programs* [Under consideration for inclusion in Marine Resource Economics]

#### ***JOURNAL ARTICLES, BOOK CHAPTERS, TECHNICAL REPORTS, ABSTRACTS AND PROCEEDINGS— Peer Reviewed [In Progress]***

1) **Herstine, J.**, and Grimes, E. *Utilizing the Keirsey-Bates temperament sorter to understand the personality preferences of parks and recreation management curriculum students.*

2) Barry, R., **Herstine, J.**, and Isaacs, J. *Effect of moral appeals on limiting barrier island sand dune trampling.*

3) **Herstine, J.**, Hill, J., Buerger, B. *Identifying natural mitigation processes and understanding how these processes differ dependent upon the location of the coastal zone natural resource.*

4) **Herstine, J.** and Auger, D. *Content motivation theories versus process motivation theories: A model for human resource management in leisure service organizations.*

5) **Herstine, J.**, Dumas, C., Gamble, D., Meinhold, S. and Imperial, M. *Assessing Public Awareness and Knowledge of Rip Currents: A Case Study in New Hanover County, North Carolina*

6) **Herstine, J.**, Whitehead, J. and Dumas, C. *Assessing Economic Benefits and Economic Impacts of Recreational Boating on the Atlantic Intracoastal Waterway*

#### ***PROFESSIONAL PRESENTATIONS***

1) **Herstine, J.**, Dumas, C., Gamble, D., Meinhold, S., and Rogers, S. (2008). *Assessing Rip Current Awareness and Understanding in New Hanover County, North Carolina, USA*". Coastal Zone Canada 2008 Conference and Youth Forum. Vancouver, British Columbia, Canada. May 25 – 29, 2008 (International)

2) **Herstine, J.**, Ashton, C., and Johnson, D. (2007). *Inclusion and Accessibility for People with Disabilities in Parks and Recreation*. 21<sup>st</sup> World International Federation of Park and Recreation Administration (IFPRA) Congress. Dublin, Ireland. September 3 – 6, 2007 (International)

3) **Herstine, J.**, Whitehead, J. and Dumas, C. (2007). *Assessing the Economic Benefits and Economic Impacts of Recreational Boating on the Atlantic Intracoastal Waterway in North Carolina*. 13<sup>th</sup> International Symposium on Society and Resource Management (ISSRM) Conference. Park City, UT. June 17 – 21, 2007. (International)

4) Hill, J. **Herstine, J.** and Buerger, B. (2007). *Development of a Methodology to Predict Public Parking and Access Requirements Sufficient to Accommodate Projected Annual and Peak Visitation Demand for a Nourished Beach*. 13<sup>th</sup> International Symposium on Society and Resource Management (ISSRM) Conference. Park City, UT. June 17 – 21, 2007. (International)

5) Whitehead, J., **Herstine, J.**, and Dumas, C. (2007). *A Determination of the Economic Benefits and Economic Impacts of Recreation Boating on the Atlantic Intracoastal Waterway (AIWW) in*



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- North Carolina, USA. 2<sup>nd</sup> National Forum on Socioeconomic Research in Coastal Systems. New Orleans, LA. May 20 – 23, 2007. (International)
- 6) Dumas, C. **Herstine, J.**, Whitehead, J. and Hall, W. (2006). *The Recreational Value and Economic Impact of North Carolina's Intracoastal Waterway and Shallow Draft Inlets*. 2006 Southern Economics Association Annual Conference. Charleston, SC. November 18 – 21, 2006 (Regional)
- 7) Whitehead, J., Dumas, C., **Herstine, J.**, Hall, W. and Graham, E. (2006). *The Waterway as an Economic Engine*. 2006 Atlantic Intracoastal Waterway Association (AIWA) Annual Conference. Wrightsville Beach, NC. November 15 – 16, 2006. (Regional—Invited)
- 8) **Herstine, J.**, Dumas, C., Whitehead, J., Hall, W. and Graham, E. (2006). *AIWW Economic Impacts and Economic Benefits Study*. 2006 North Carolina Beach, Inlet and Waterway Association (NCBIWA) Annual Conference—Managing Coastal Sediments. Carolina Beach, NC. November 13 – 14, 2006. (Regional—Invited)
- 9) Hill, J., **Herstine, J.**, Buerger, B., Webster, D., & Dumas, C. (2006). *Balancing Beachfront Vehicular Access With Endangered Species Protection: A Case Study at Fort Fisher State Recreation Area, North Carolina, USA*. Twelfth International Symposium on Society and Resource Management. June 3 – 8, 2006. Vancouver, BC, Canada. (International)
- 10) Hill, J. & **Herstine, J.** (2005). *Managing Visitor Use Impacts on North Carolina Barrier Islands*. National Oceanic and Atmospheric Administration, Coastal Services Center and the North Carolina National Estuarine Research Reserve, Coastal Training Program. October 4 – 5, 2005. Morehead City, NC (Regional—Invited but not presented due to cancellation of conference)
- 11) **Herstine, J.**, Hill, J., Buerger, R., Dumas, C. & Webster, D. (2005). *Ecotourism on State Property—An Assessment of Vehicular Access Demand, Biological Impacts and Economic Impacts at the Fort Fisher State Recreation Area*. Ecotourism in the U.S. September 14 – 16, 2005. Bar Harbor, ME (International) [Accepted but not presented]
- 12) Buerger, R., Hill, J. & **Herstine, J.** (2005). *Coastal Tourism and Public Access: A Case Study of North Carolina Beaches in the United States*. International Conference on Coastal Conservation and Management in the Atlantic and Mediterranean. April 17 – 20, 2005. Tavira, Portugal (International)
- 13) **Herstine, J.**, Hill, J., Buerger, B. & Isom, C. (2004). *Importance of Ease of Access in Coastal Leisure*. World Leisure. September 12 – 17, 2004. Brisbane, Australia. (International) [Accepted but not presented]
- 14) **Herstine, J.**, Hill, J. & Buerger, B. (2004). *Understanding and Managing Visitor Use and Experience on the Masonboro Island National Estuarine Research Reserve*. Coastal Zone Canada. June 27 – 30, 2004. St. Johns, Newfoundland. (International) [Poster accepted but not presented]
- 15) Hill, J., **Herstine, J.**, Buerger, B., Tagliarini, G. & Isom, C. (2004). *Challenges in Automated Pattern Recognition in Coastal Natural Resource Management*. ED-MEDIA 2004: World Conference on Educational Multimedia, Hypermedia and Telecommunications. June 21 – 26, 2004. Lugano, Switzerland. (International)
- 16) Hill, J., **Herstine, J.**, Buerger, R., & Isom, C. (2004). *Understanding Latent Demand for Coastal Recreation in North Carolina*. Tenth International Symposium on Society and Resource Management. June 2 – 6, 2004. Keystone Resort, CO. (International)

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- 17) Isom, C., **Herstine, J.**, Hill, J., & Buerger, B. (2004). *Utilizing Focus Groups to Determine Coastal Community Beach Access Needs in Southeastern North Carolina*. The Coastal Society. May 23 – 26, 2004. Newport, RI. (International) [Accepted but not presented]
- 18) **Herstine, J.**, Hill, J., & Buerger, R. (2004). *Assessing and Comparing the Natural Processes Mitigating Tourism and Environmental Impacts on a Coastal Barrier Island and a Coastal Estuarine Island*. The 5<sup>th</sup> International Conference on Coastal Environment: Environmental Problems in Coastal Regions. April 26 – 28, 2004. Alicante, Spain. (International)
- 19) **Herstine, J.**, Whitehead, J., & Hall, W. (2004). *Identifying the Economic Benefits and Economic Impacts of Recreational Boating on the Atlantic Intracoastal Waterway in NC*. 2004 Southeastern Recreation Research (SERR) Conference. February 8 – 10, 2004. Charleston, SC (Regional)
- 20) Buerger, B., Hill, J., **Herstine, J.**, & Isom, C. (2004). *Perceptual Differences Between Residents and Visitors Toward Public Access at North Carolina's Oceanfront Beaches*. The 4<sup>th</sup> Social Aspects and Recreation Research (SARR) Symposium. February 4 – 6, 2004. San Francisco, CA (International)
- 21) **Herstine, J.**, Barry, R. & Isaacs, J. (2003). *Effect of Moral Appeals on Sand Dune Trampling*. Coastal Zone 03. July 2003. Baltimore, MD (International)
- 22) **Herstine, J.**, Hill, J. & Buerger, B. (2002). *Managing Visitor Use Impacts on North Carolina Barrier Islands*. North Carolina National Estuarine Research Reserve Coastal Communities Services Program Workshop: Managing Visitor Use in Coastal and Marine Protected Areas. November 20, 2002. Wilmington, NC (Regional—Invited)
- 23) **Herstine, J.**, Hill, J. & Buerger, B. (2002). *Reaching Students via the Experiential Classroom Process*. The 16<sup>th</sup> International Conference on Outdoor Recreation and Education (ICORE 2002). October 27 – 30, 2002. Charleston, SC (International)
- 24) **Herstine, J.** (2002). *Are There Methods for Effectively and Appropriately Managing and Resolving Conflict in Organizations?* 2002 North Carolina Recreation Therapy Association 12<sup>th</sup> Annual Conference. October 14 – 15, 2002. Wilmington, NC (State)
- 25) **Herstine, J.** (2002). *Motivation: What Do You Need to Know?* 2002 North Carolina Recreation Therapy Association 12<sup>th</sup> Annual Conference. October 14 – 15, 2002. Wilmington, NC (State)
- 26) **Herstine, J.**, Auger, D., Hill, J., & Buerger, R. (2002). *Equine Impacts and the Implications for Resource Managers*. The 9<sup>th</sup> International Symposium on Society and Resource Management. June 5, 2002. Indiana University—Bloomington, ID (International)
- 27) **Herstine, J.** & Moore, R. (2002). *Legal Issues in Therapeutic Recreation Services: Understanding Risk Management and Legal Liability*. North Carolina Recreation and Park Society Therapeutic Recreation Division Annual Conference. March 7 – 8, 2002. Wrightsville Beach, NC (State)
- 28) **Herstine, J.**, Auger, D., Hill, J. & Buerger, R. (2002). *Understanding and Managing Equine Impacts on Coastal Zone Natural Resources*. Southeastern Recreation Research (SERR) Conference. February 21 – 23, 2002. Athens, GA (Regional)
- 29) Jeffers-Brown, D., & **Herstine, J.** (2001). *Wanted: Agencies for Student Volunteers and Workers*. North Carolina Recreation and Park Society Annual Conference. November 11 – 15, 2001. New Bern, NC (State)
- 30) **Herstine, J.** & Gladwell, N. (2001). *Creating a Bond with Your Customer*. North Carolina Recreation and Park Society Annual Conference. November 11 – 15, 2001. New Bern, NC (State)

- 31) Buerger, R., Hill, J., Taggart, J., **Herstine, J.**, & Auger, D. (2001). *The Effect of Regulatory Signs on Camping Behavior in the Coastal Environment: A Case Study of the Zeke's Island National Estuarine Research Reserve*. The 12<sup>th</sup> Biennial Coastal Zone Conference: Hands Across the Water—Linking Land, Lake, and Sea. July 15 – 19, 2001. Cleveland, OH (International)
- 32) Buerger, R., Hill, J., **Herstine, J.**, & Auger, D. (2001). *The Changing Human Dimension of Recreational Use on Masonboro Island following a Hurricane*. Coastal Plain Waters 2001: Human Dimensions of Coastal Recreation Research Conference. March 30 – April 1, 2001. Washington, NC (Regional)
- 33) **Herstine, J.**, Auger, D., Hill, J., & Buerger, R. (2001). *A Passive Approach to the Management of Camping Behavior: The Use of Regulatory Signage on the Zeke's Island Component of the North Carolina National Estuarine Research Reserve*. Coastal Plain Waters 2001: Human Dimensions of Coastal Recreation Research Conference. March 30 – April 1, 2001. Washington, NC (Regional)
- 34) **Herstine, J.** (2001). *How to Recognize, Manage and Resolve Conflict in Your Life and Organization*. North Carolina Recreation and Park Society, Therapeutic Recreation Division Annual Conference. March 15 – 16, 2001. Salisbury, NC (State)
- 35) **Herstine, J.** (2001). *Problem-Solving, Decision-Making and Critical Thinking Skills: Don't Leave Home Without Them!* North Carolina Recreation and Park Society, Therapeutic Recreation Division Annual Conference. March 15 – 16, 2001. Salisbury, NC (State)
- 36) **Herstine, J.**, Auger, D., Hill, J., & Buerger, R. (2001). *The Effects of Indirect Management on Camping Behavior in the Coastal Zone: A Case Study of the Use of Regulatory Signage on the Zeke's Island National Estuarine Research Reserve*". Southeastern Recreation Research (SERR) Conference. February 21 – 23, 2001. Asheville, NC (Regional) [Accepted—presentation cancelled due to inclement weather]
- 37) **Herstine, J.** (2000). *Critical Thinking Skills: OR How to Evaluate Information and Determine What That Information is Really Telling You*. North Carolina Recreation and Park Society Annual Conference. November 7, 2000. Raleigh, NC (State)
- 38) **Herstine, J.** (2000). *Conflict Resolution and Management Skills and Techniques: Is There a Place and Role for Conflict in Your Organization?* North Carolina Recreation and Park Society Annual Conference. November 7, 2000. Raleigh, NC (State)
- 39) Buerger, R., Hill, J., **Herstine, J.**, & Taggart, J. (2000). *Changes in Coastal Recreation Use Patterns Following Hurricanes*. The 8<sup>th</sup> International Symposium on Society and Resource Management—Transcending Boundaries: Natural Resource Management From Summit to Sea. June 17 – 22, 2000. Western Washington University, Bellingham, WA (International)
- 40) Buerger, R., Hill, J., Taggart, J. & **Herstine, J.** (1999). *The Impact of Hurricanes on Recreational Use of Barrier Islands*. Coastal Zone 99. July 27 – 29, 1999. Boston, MA (International)
- 41) Hill, J., Buerger, R., Kiefer, R. & **Herstine, J.** (1999). *Digital Mentoring in Virtual Environments: A Case Study in Coastal Science Education*. M/SET 99: International Conference on Mathematics/Science Education and Technology. March 1 – 4, 1999. San Antonio, TX (International)
- 42) Buerger, R., Taggart, J., **Herstine, J.** & Hill, J. (1999). *Re-emergence of Coastal Recreation Use Following Hurricanes*. The 1999 Southeastern Recreation Research Conference. February 3 – 5, 1999. Gatlinburg, TN (Regional)
- 43) Hill, J., Buerger, R. & **Herstine, J.** (1998). *Implications for Virtual Reality in Natural Resource Recreation Management Curricula*. ED-MEDIA 98: World Conference on Educational

Multimedia and Hypermedia. June 20 – 25, 1998. Freiburg, Germany (International—Poster session)

44) Buerger, R., Hill, J., Taggart, J. & **Herstine, J.** (1998). *Human Dimensions in Barrier Island Management: Determining the Role of Natural Physical Processes in the Mitigation of Recreational Impacts*. The 7<sup>th</sup> International Symposium on Society and Resource Management. May 27 – 31, 1998. Columbia, MO (International)

45) Buerger, R., Hill, J., **Herstine, J.** & Taggart, J. (1998). *Managing Recreation Impacts in the Coastal Zone*. The 1998 Southeastern Recreation Research Conference. February 5 – 6, 1998. Charleston, SC (Regional)

46) Buerger, R., Hill, J., Taggart, J. & **Herstine, J.** (1997). *Understanding Recreational Use on Barrier Islands: Impact, Mitigation, and Management*. Coastal Zone 97. July 20 – 26, 1997. Boston, MA (International)

47) Buerger, R., Hill, J., **Herstine, J.** & Taggart, J. (1995). *The Impact From Recreational Use on the Physical Features of Masonboro Island, NC*. Coastal Zone 95. July 17 – 22, 1995. Tampa, FL (International)

48) Buerger, R., Taggart, J., **Herstine, J.** & Hill, J. (1994). *Barrier Island Management: A Survey of Recreational Impact on Masonboro Island*. The 5<sup>th</sup> International Symposium on Society and Resource Management. June 7 – 10, 1994. Fort Collins, CO (International)

49) Buerger, R., Taggart, T., **Herstine, J.** & Hill, J. (1994). *Understanding Recreational Impact in Masonboro Island*. The Coastal Society's 14<sup>th</sup> International Conference. April 17 – 20, 1994. Charleston, SC (International—Poster session)

50) Buerger, R., Taggart, J., **Herstine, J.** & Hill, J. (1994). *The Impact of Camping on the Physical Features of Masonboro Island*. The 1994 Southeastern Recreation Research Conference. February 9 – 11, 1994. Helen, GA (Regional)

### **PROFESSIONAL DEVELOPMENT AND TRAINING**

*National Recreation and Park Association (NRPA) Annual Congress—October 2003*

*13<sup>th</sup> International Executive Development Institute—January 2003*

*Certified Parks and Recreation Professional (CPRP)—November 2000 – March 2005*

*Eighth International Symposium on Society and Resource Management—June 2000*

*NCRPS Annual Conference—November 2000, November 2001*

*National Playground Safety Certification Course—July – August 2001*

*Certified Playground Safety Inspector—August 2001*

### **PROFESSIONAL OFFICES AND POSITIONS**

◆ Member and Chair, Leland Parks and Recreation Advisory Board. June 2005 – present

◆ Chair, Educator's Division, North Carolina Recreation and Park Society. June 2004 – November 2004

◆ Member, Fort Fisher State Recreation Area Advisory Committee, Wilmington, NC. July 2002 – September 2004

◆ Vice-Chair, Educator's Division, North Carolina Recreation and Park Society. November 2003 – June 2004

◆ Member, Faculty Senate, University of North Carolina at Wilmington, Wilmington, NC. August 2001 – July 2003

◆ Member, Faculty Senate Student Affairs Committee, University of North Carolina at Wilmington, Wilmington, NC. August 2001 – Present

- ◆ Member, Wilmington Parks and Recreation Advisory Board, Wilmington, NC. November 2000 – June 2004
- ◆ Chair, NCAAHPERD Necrology Committee. 2001
- ◆ Member, NCAAHPERD Necrology Committee. 2000
- ◆ Member, Chancellor’s Campus Recreation Advisory Board. University of North Carolina Wilmington, Wilmington, NC. August 1998 – Present
- ◆ Chair, Chancellor’s Campus Recreation Advisory Board. University of North Carolina Wilmington, Wilmington, NC. August 1999 – August 2000; August 2002 – Present

***GRANT/AWARD ACTIVITY—Total Funded From July 2000 – Present: \$769,986***

1. *Economic Impacts of the North Carolina For-Hire Fishing Fleet* (2007). North Carolina Sea Grant Program. (Funded for \$70,348 from March 1, 2007 – August 31, 2008 – with Dumas, C., Hatcher, T., Whitehead, J. and Landry, C.
2. *An Assessment of Public Awareness of Rip Currents in New Hanover County, North Carolina* (2006). North Carolina Sea Grant Program (Funded for \$3,982 from 9/1/2006 – 2/28/2007—with Gamble, D., Dumas, C., Imperial, M. and Meinhold, S. **Principle Investigator** for this study/grant.
3. *North Carolina Coastal Reserve Program Initiatives* (2006). North Carolina Department of Environment and Natural Resources, Division of Coastal Management, North Carolina National Estuarine Research Reserve Program (Funded for \$26,300 from 9/25/2006 – 6/30/2007—with Buerger, R. & Hill, J.
4. *Managing Visitor and Feral Horse Impacts on the North Carolina National Estuarine Research Reserve* (2005). North Carolina Department of Environment and Natural Resources, Division of Coastal Management, North Carolina National Estuarine Research Reserve Program (Funded for \$5,305 from 7/11/2005 – 10/31/2005 – with Buerger, R. & Hill, J.).
5. *A Determination and Analysis of the Economic Impacts and Economic Benefits of Recreational and Commercial Boating and Marine Related Business Along the Atlantic Intracoastal Waterway in North Carolina and Oceanfront Beach Nourishment in North Carolina* (2005). North Carolina Beach, Inlet and Waterway Association (Funded for \$165,887 from 6/1/2005 – 9/30/2007 – with Whitehead, J., Hall, W., Dumas, C. & Graham, E.). **Principle Investigator** for this study/grant.
6. *A Preliminary Assessment of the Economic Impacts and Economic Benefits of Recreational Boating Along the Atlantic Intracoastal Waterway in North Carolina* (2005). North Carolina Sea Grant Program (Funded for \$9,945 from 5/1/2005 through 12/31/2005 – with Whitehead, J. Dumas, C. & Hall, W.). **Principle Investigator** for this study/grant.
7. *A Initial Assessment of the Economic Impacts and Economic Benefits of Recreational Boating Along the Atlantic Intracoastal Waterway in North Carolina* (2005). North Carolina Department of Environment and Natural Resources (Funded for \$25,000 from 6/10/2005 – 6/30/2006 – with Whitehead, J., Hall, W. & Dumas, C.). **Principle Investigator** for this study/grant.
8. *Investigating the Development of an Adaptive Visual Pattern Recognition System for Application in the Environmental Sciences* (2005). University of North Carolina Wilmington, Information Systems Technology Division (Funded for \$5,000 – with Tagliarini, G., Hill, J., Narayan, S., Blum, J. & Buerger, R.).
9. *Ocean Beach Vehicular Access Study at Fort Fisher State Recreation Area* (2004). North Carolina Department of Environment and Natural Resources, Division of Parks and Recreation (Funded for \$25,000 from 8/2004 – 6/2005 – with Hill, J., Buerger, R., Webster, D. & Dumas, C.). **Principle Investigator** for \$8,344 of this study/grant.

10. *Conversion of Venus Fly Trap Trail to Universal Accessibility* (2003). North Carolina Department of Environment and Natural Resources, State Trails Program (Funded for \$17,440 from 11/2003 – 10/2005 – with Kyzer, M. & Ashton, C.).
11. *Determination of Recreation Demand for Federal Shore Protection Study Areas: Bogue Banks, Surf City and North Topsail Beach, Topsail Beach and Brunswick County Beaches, NC* (2003). U.S. Army Corps of Engineers, Wilmington District (Funded for \$358,840 from 5/2003 – 5/2005 – with Hill, J. & Buerger, R.). **Principle Investigator** for this study/grant.
12. *Measuring Visitor and Feral Horse Impacts on the North Carolina National Estuarine Research Reserve* (2003). National Oceanic and Atmospheric Administration; North Carolina Department of Environment and Natural Resources, Division of Coastal Management, North Carolina National Estuarine Research Reserve Program (Funded for \$8,000 from 7/01/03 through 12/31/04 – with Buerger, R. & Hill, J.).
13. *Beach Survey for the Town of Wrightsville Beach* (2003). Town of Wrightsville Beach (Funded for \$10,000 from 6/15/03 through 12/31/03 – with Imperial, M., Jones, L., Meinhold, S., Dumas, C. Schuhmann, P. & Whitehead, J.).
14. *An Analysis of the Economic Impacts and Economic Benefits of Recreational Boating on the Atlantic Intracoastal Waterway in North Carolina* (2003). North Carolina Sea Grant Program (Funded for \$4,995 from 1/1/03 through 12/31/03 – with Whitehead, J.). **Principle Investigator** for this study/grant.
15. *Faculty Liaison Project—Marine Trades* (2003). Small Business and Technology Development Center/DLA—Marine Trades Services, Small Business Administration—Small Business Development Center Grant (Funded for \$1,100 from 1/1/03 through 12/31/03). **Principle Investigator** for this study/grant.
16. *The North Carolina National Estuarine Research Reserve: Understanding Visitors, Resource Impacts, and Their Implications* (2002). National Oceanic and Atmospheric Administration; North Carolina Department of Environment and Natural Resources, Division of Coastal Management, North Carolina National Estuarine Research Reserve Program (Funded for \$8,000 from 07/01/02 through 06/30/03 – with Hill, J. & Buerger, R.).
17. *Utilizing Signage to Protect Barrier Island Dunes and Sand Ridges—A Case Study on Bear Island at Hammocks Beach State Park* (2002). North Carolina Sea Grant Program (Funded for \$4,995 from 04/01/02 through 03/30/03 – with Barry R.). **Principle Investigator** for this study/grant.
18. *Field Course in Parks and Recreation Management* (2002). Friends of UNCW. Funded for \$615.
19. *Managing the Human Dimension on the North Carolina National Estuarine Research Reserve* (2001). National Oceanic and Atmospheric Administration; North Carolina Department of Environment and Natural Resources, Division of Coastal Management, North Carolina National Estuarine Research Reserve Program (Funded for \$10,969 from 07/01/01 through 12/31/02 – with Hill, J. & Buerger, R.).
20. *Diverse Physical Impacts to the Natural Resources of the North Carolina National Estuarine Research Reserve: Understanding Management Implications* (2001). National Oceanic and Atmospheric Administration; North Carolina Department of Environment and Natural Resources, Division of Coastal Management, North Carolina National Estuarine Research Reserve Program (Funded for \$8,265 from 07/01/00 through 12/31/01 – with Hill, J. & Buerger, R.).

### ***PROFESSIONAL INTERESTS AND OBJECTIVES***

My research efforts have two primary foci: 1) Natural Resource Management issues, and 2) Organizational Management and Administration issues. My goal in relation to Natural Resource Management issues is to develop various models that can be utilized by natural resource managers to assist them in the challenges of confronting and managing the human dimensions of recreational use of natural resource areas. My goal in the area of Organizational Management and Administration is to assist parks and recreation managers at all levels of the organization to better understand organizational functions and individual employee motivations and behaviors.

As a practitioner and classroom educator for the past 29 years, I have had the opportunity to develop numerous professional interests and objectives. My current research interests evolve around travel and tourism and natural resource management, particularly in the coastal zone. Both my practical experience in the field of coastal zone management and my involvement in research related to barrier island processes and procedures have made me somewhat of an expert in the field of coastal zone natural resource recreation management. I have served as an expert witness in this area on several occasions and have been involved in numerous professional presentations and committees on natural resource management in the coastal zone.

I also have a strong professional interest in coastal zone natural resource management as it relates to system biodiversity, sustainable coastal recreation, visitor behavior, tourism, and human dimensions and impacts, particularly as defined by recreational use in the coastal zone. I am interested in developing an eco-tourism/nature-tourism model for coastal zone recreation resource management and intend to explore and expand my research and knowledge in these and other associated areas.

My practical experience in the field of parks and recreation administration also leads me in a desire to research and explore more fully the area of human resource management as it impacts all sectors of the leisure service delivery system. I believe that one of the most difficulty challenges facing managers in the field of parks and recreation administration relates to their ability to “get the most out of their employees”. To this end, I intend to direct some of my future research efforts into the area of human resource management in hopes of providing parks and recreation managers with better information when making decisions regarding the planning, organizing, staffing, directing, controlling and evaluating of their human resources and organizations.

### ***TEACHING PHILOSOPHY AND METHODOLOGY***

I am strongly committed to the idea that a university teacher is first and foremost an educator, role model and example for the students to follow. As such, I strive at all times to think, speak and behave in a manner that reflects the ideals of honesty, integrity, dedication, responsibility, dependability, ethical behavior and professionalism. My motivation for teaching comes from my profound desire to assist the students in my classroom and under my guidance to understand their own potential, to set realistic and challenging personal and professional goals, and, to realize these personal and professional goals to the greatest extent possible. I believe that the purpose of higher education in general is to provide students with the theoretical and technical skills and abilities required to succeed in their chosen professional field and to facilitate the emotional, social, spiritual and intellectual growth and development of the students as individuals and as an integral component of the greater world community.

I believe that learning is an ongoing process that does not begin or end in the classroom. As a university educator, I attempt to facilitate the student’s learning development through numerous activities and experiences both within and outside the classroom setting. Within the classroom, I attempt to include the student’s as responsible partners in the learning environment and structure my courses based upon the level of background and experience that the student’s bring to the setting. I want my students to be active participants in all of my classes; however, I do vary the amount of teacher directed activities within my classes based upon the content level of the course. For example, I lecture more in an introductory course such as “Introduction to Recreation Services” than I do in an upper level course such as “Advanced Human Resource Management and Financing of Recreation Services”. However, I encourage and solicit questions in all of my classes. I also use multiple teaching techniques and procedures in all of my classes including small group activities, case study analysis, individual and group presentations, guest speakers, PowerPoint presentations, videos, field trips, service learning and lectures. My desire is to allow the students to have

the opportunity to utilize their own personal strengths and creativity within the classroom setting. I recognize that students learn differently and students respond differently to various stimuli. It is my desire in the classroom to foster an environment that is developmentally challenging, theoretically based, experientially sound, appropriate to the subject matter, encouraging to each student's personality and intellect, and, stimulating to the students' emotional and intellectual capacity.

I believe that my role and responsibility to my students is not restricted to just within the classroom. I attempt to mentor those students who desire mentoring and make themselves available for the mentoring process. I also strive to develop a mutually respectfully relationship with my students that functions in both academic and non-academic settings. I follow a true "open door policy" and encourage students to come to me with their professional, academic and personal problems and concerns. To this end, my teaching evaluations indicate time after time that students view me as "accessible" and "concerned". I consistently receive "Above Average to Excellent" and "Excellent" ratings under the former on the Student Perceptions of Teaching (SPOT) evaluations and 6.0 mean ratings on the current SPOT evaluations at the University of North Carolina Wilmington (UNCW). Each semester, the Division of Student Affairs at the UNCW asks graduating seniors to identify faculty or staff members who have had a significant impact on them while attending UNCW. I have been identified by at least one student each semester that I have taught at UNCW for having made a difference in their lives. Recent comments from these students include:

He had a profound effect on my performance in college. He made me want to understand the information he was presenting to me. The depth of his knowledge and experience about the subject he teaches is unbelievable. He made me want to do well. I wanted to make him feel proud to be a professional. I wanted to let him know that someone was listening, paying attention, and truly cared. He has truly been the highlight of my college career.

He has taken time to really make a difference in my field of study and has given me advice and the education

I expected from UNCW.

Dr. Herstine, thank you so very much for pushing me to the limit and for always being at your phone when I was stressed out.

He has always been there for me anytime I needed help with anything from school work to finding a job. I really enjoyed all of his classes and his being my advisor. Thanks a whole lot!

You made my college experience so much fun. You are an excellent teacher and I am thankful to have been taught by you. Thanks for all the wonderful learning experiences.

I would especially like to thank Dr. Jim Herstine for being such a great teacher and mentor to me throughout my schooling.

It is my belief that my past professional experience as a parks and recreation administrator, my university and community service and my agenda of scholarly research and writing are also valuable assets to my teaching. I have approximately 15 years experience as a manager at various parks and recreation related organizations. I use this experience constantly in the classroom as a means of providing "real life" examples to the students and to assist students with their networking with other parks and recreation professionals. My past and present membership on both community and university committees such as the City of Wilmington Parks and Recreation Advisory Board, the Town of Leland Parks and Recreation Advisory Board, the Fort Fisher State Recreation Area Advisory Committee, the UNCW Chancellor's Campus Recreation Advisory Committee and the UNCW Chancellor's Health and Wellness Committee also provides me with additional leverage for teaching. These committees allow me to keep in touch with the parks and recreation profession and the latest trends and challenges facing the field. Through my research agenda, I am able to hire students and provide them with first hand experience as both field researchers and article writers. I have used my research in the past as classroom examples and as direct learning tools for select students.

In the future, I will continue to exhibit the highest degree of professionalism and ethical behavior; to remain enthusiastic; to treat all of my students as individuals worthy of my best; to maintain a sense of humor; to continue to learn myself so that I might pass that new knowledge along to my students; to include the students in my course planning process; and, to know and acknowledge each of my students as worthy individuals.

**Roger D. Shew**

*Dept. of Geography and Geology  
Dept. of Environmental Science  
Office: 601 S. College Rd  
UNC-Wilmington, Wilmington, N.C. 28403  
(910) 962-7676 [shewr@uncw.edu](mailto:shewr@uncw.edu)*

**Academic Degrees**

**M.S. Education**, University of Houston, 1996  
**M.S. Geology**, University of North Carolina at Chapel Hill, 1979  
**B.A. Earth Sciences (Honors) with Biology**, UNC-Wilmington, 1976

**Relevant Academic Experience**

**2000 - Present**      **Lecturer, Geography and Geology and Environmental Sciences  
Dept., UNC-  
Wilmington**

Courses taught include undergraduate (Introductory Geology, Oceanography, Environmental Geology, Dynamic Earth, Weather and Climate, Global Issues in Environmental Sciences, Sustainability: Topics and Issues, Natural Resources, and Senior Seminar in Environmental Sciences, and Labs in Introductory Geology, Historical Geology, and Environmental Geology) and graduate (Seismic Stratigraphy, Subsurface and Petroleum Geology, Field Sedimentology, Field Geology Seminar to New Mexico, Resources for a Sustainable Society, and Environmental Sciences Seminar). I have also had numerous DIS students and served on a committees and mentored students.

**2000 - Present**      **Lab Coordinator, Earth Sciences Dept., UNC-Wilmington**

Lab coordinator for Introductory Geology, Environmental Geology, and Environmental Science. Duties include preparing labs and instructing and supervising Teaching Assistants. I have developed new labs for both courses and written a Lab Manual for Environmental Geology. I am in the process of writing a lab manual for Introductory Geology and have just completed the a new lab book in Environmental Science.

**1997 - 1998**              **Geology/Petroleum Geology Instructor, University of Houston  
Petroleum Engineering Dept.**

**1996 - Present**        **Geology Instructor, University of New Mexico at Carlsbad,  
Carlsbad, New Mexico**

**Relevant Professional Experience**

**1999 - Present**        **Consultant - Geological, Environmental, and Biological  
Sciences**

Conduct training courses and field seminars for oil and oil service companies on a range of topics including geology, geophysics, petrophysics, and reservoir modeling. Topics of special interest include deepwater and deltaic reservoir characterization and carbonate depositional models that include studies on sedimentology, stratigraphy, and sedimentary petrology. Conduct field assessments of vegetation and soils for community monitoring and plant restoration and for endangered species studies with the Nature Conservancy.

**1993 - 1999            Geology Instructor/ Geoscience Training Coordinator  
Shell Oil Company, Houston, Texas**

Introductory (Petroleum Geology, Petrophysics, Reservoir Characterization) and advanced (Seismic Stratigraphy, Applied Sedimentary Petrology, Core, Cuttings, and Reservoir Interpretation, Integrated Seismic to Pore Scale Studies on Deltas, Deepwater Deposits, and Carbonates) courses conducted for geoscientists, engineers, managers, and technicians.

**1984 - 1993            Research Geologist, Shell Oil Company, Houston, Texas**

Production and Exploration research in siliciclastic and carbonate depositional systems with particular emphasis on reservoir characterization seismic to pore scale properties and models) of deepwater siliciclastics. Over 100 internal reports were published.

**1979 - 1984            Development Geologist  
Shell Oil Company, New Orleans, Louisiana**

Responsible for Onshore Gulf Coast drilling in the Tuscaloosa Trend, Deep Sour Gas Area of Mississippi, Eocene deltaics of South Texas, and East Texas carbonate plays. Special assignments were done in Petrophysics, Field logging, and Production Geophysics.

**Associated Academic and Professional Experience**

- 2002 - Present        Teacher Workshops - UNC-Wilmington and SMEC
- 2000 - 2001         GLOBE Training for Teachers (modules on soils, plant cover and distribution, and water). UNC-W representative.
- 2000                 Taught Coastal Geology - Summer Ventures, UNC-W

**Grants Received**

- North Carolina Mining Commission: Resource Instruction, Surface Materials and Groundwater in the Coastal Plain, 2004
- National Park Service - Guadalupe Mountains National Park: Park Guides and Educational Lesson Plans for the Web - 2003
- Friends of UNC-Wilmington: Lab supplies for Environmental Geology, 2003
- Eisenhower Grant: Earth/Environmental Science Modules of North Carolina, 2002
- Eisenhower Grant: Natural History of the Coastal Plain of North Carolina: Concepts and Issues in Geology, Biology, and Environmental Science, 2001

**Grants Applied For**

1. Coastal North Carolina Integrated Science Modules: From the Sand Hills to the Slope Center for Ocean Science Education Excellence (COSEE).
2. North Carolina Geoscience Modules - National Science Foundation (NSF)

**Professional Affiliations and Memberships**

American Association of Petroleum Geologists  
Houston Geological Society  
North Carolina Science Teacher Association  
North Carolina Coastal Federation - Executive Steering Committee  
The Nature Conservancy  
Cape Fear River Watch - Board of Directors

**Other Outreach**

- Volunteering in schools/presentations
- College Day (2003 -2009)
- Volunteer with the North Carolina Coastal Federation: Stormwater sampling and Coastkeeper volunteer
- Nature Conservancy volunteer: restoration studies, trail maintenance and guide books and posters, etc.
- Loaning of Equipment/Materials to schools
- Community field trips and presentations, Osher Lifelong Learning

***Honor's and Awards***

- Lecturer of the Year Award - UNC-Wilmington
- AAPG Dott Award for best book Publication 2007: *Atlas of Deep-Water Outcrops*
- Three Best of AAPG selections for abstracts and presentations
- Two Honorable Mentions for best presentation at AAPG National conventions
- Runnerup - Best paper award from Houston Geological Society
- Three Special Recognition Awards for Research - Shell Oil
- Who's Who Among American Colleges and Universities - UNC-W

***Publications upon request***



**Joshuah David Mello, A.I.C.P.**  
413 Kingston Road, Wilmington, NC 28409  
910-443-0983/ joshuahmel@yahoo.com

**EXPERIENCE:**

**City of Wilmington/Wilmington Metropolitan Planning Organization**

**Wilmington, NC**

*Associate Planner – Transportation (full-time)*

*Nov. 2005–Present*

- *Project manager for various infrastructure and planning projects (including ARRA-funded greenway project)*
- *Manage city's Safe Routes to School program and Pedestrian and Bicycle Improvement Team*
- *Liaison with various government officials, property owners and land developers*
- *Interact with news media, including sitting for radio and television interviews*
- *Provide analysis of information in the areas of demographics, operations, forecasts, neighborhood issues, land use, and development review; and present the results in the form of maps, technical memoranda, and public meeting presentations*
- *Write grant applications, including three successful applications representing over \$350,000 in state funds*
- *Author press releases, advertisements and notices for various public involvement meetings and events*
- *Update and maintain Internet site for Wilmington MPO*

**Community Opportunities Group, Inc.**

**Boston, MA**

*Associate (full-time)*

*Jul. 2003–Nov. 2005*

- *Completed a wide variety of community planning and economic development assignments, coordinated project teams and prepared final reports for professional and community audiences*
- *Prepared successful grant applications for funding through state and federal agencies*
- *Managed housing rehabilitation, commercial property improvement, housing development, streetscape and infrastructure projects*

**Boston Housing Authority**

**Boston, MA**

*Communications Assistant (full-time)*

*Sep. 2002–Jul. 2003*

- *Wrote, published and distributed press releases, weekly employee bulletin and bi-monthly community newsletter*
- *Helped develop authority-wide communications protocol with input from all departments and stakeholders*
- *Updated and maintained Intranet and Internet sites for all departments; reorganized website for easier access*
- *Tracked and documented news coverage, public opinion and all other issues relevant to the authority*
- *Assisted with the promotion, organization and facilitation of internal meetings, public hearings and ceremonies*

**The Boston Globe**

**Boston, MA**

*National/Foreign Editorial Assistant (six-month co-op position)*

*Jan. 2001–Jun. 2001*

- *Assisted editors with production of stories; answered political, social and cultural queries from writers and readers*
- *Tracked and documented all relevant local, regional, national and international developments*

**The Mass Media Newspaper**

**Boston, MA**

*Managing Editor (part time)*

*Sep. 1998–Dec.2000*

- *Managed staff of 30 writers, associates, and senior editors*

**City Year Boston**

**Boston, MA**

*AmeriCorps Member (nine-month commitment)*

*Sep. 1997–Jun. 1998*

- *Performed 1700 hours of community service within urban Boston community.*

**EDUCATION:**

**Boston University**  
*Master of City Planning*

**Boston, MA**  
*Aug. 2005*

**University of Massachusetts at Boston**  
*Bachelor of Arts in Political Science*

**Boston, MA**  
*Jun. 2002*

**LANGUAGES:**

*Excellent spoken and written English. Experience with Portuguese, French and Spanish.*

**COMPUTER SKILLS:**

*Expert Skills in Access, ArcGIS, Dreamweaver, Excel, Front Page, FTP, HTML, Illustrator, InDesign, Lotus Suite, Mac OS, Outlook, PageMaker, Photoshop, PowerPoint, Quark, Windows OS, Word and all client-side Internet applications. Web Design: Maintained [www.bostonhousing.org](http://www.bostonhousing.org) and [www.wmpo.org](http://www.wmpo.org)*

**PROFESSIONAL CERTIFICATIONS/MEMBERSHIPS:**

**American Institute of Certified Planners Certified May 2007**  
**American Planning Association Member**  
**Institute of Transportation Engineers Member**

## **Daniel Quinn Noonan**

305 Pine Hills Drive • Wilmington, NC 28403 • Ph: (910) 352.1772 [noonandq@gmail.com](mailto:noonandq@gmail.com)

### **Education:**

#### **Master of Arts, Liberal Studies Fall 2008**

*University of North Carolina Wilmington, Wilmington, NC (4.0 Cumulative GPA)*

#### **Bachelor of Arts, History Fall 1992**

*West Virginia University, Morgantown, WV*

### **Professional Experience:**

#### **Networking Analyst- Technology Enhanced Learning Department (6/00-Present)**

##### ***University of North Carolina Wilmington- Information Technology Systems Division***

- Manage daily operations of UNCW based North Carolina Research and Education Network (NCREN) and State of NC ITS video network programming and applications.
- Design, install, maintain and support technology enhanced facilities for academic and administrative departments across campus (including 6 rich media classrooms, 7 distributed VTC systems, 2 SIMS Observation Labs and 2 Marketing Observation Labs).
- Provide technical consultation for design, installation and implementation of technology enhanced learning classrooms and conference rooms during new building construction.
- Serve as central portal for faculty requests for rich media encoding, archiving and streaming via the ITSD media servers.
- Design, develop and implement faculty training for academic course and related content capture, archival and distribution (e.g. Adobe Flash, SonicFoundry, MediaSite, Camtasia, Captivate, Panopto).
- Identify, evaluate and recommend enhanced collaborative communication technologies for campus departments (e.g. H.323 solutions, Wimba, Elluminate, Skype, Oovoo).
- Collaborate with statewide inter-institutional consortia to develop and implement project plans regarding enhanced communication technologies and rich media services (NCREN Video Directors and NCREN Program Coordinators statewide committee member).
- Collect, analyze and report data regarding faculty, staff and student usage of UNCW- TEL video network and rich media services.
- Collaborate with departments across campus on special projects (e.g. emerging technologies faculty training, conference presentations and special events productions).
- Supervise, train and mentor student technicians in daily delivery and support of technology enhanced learning and rich media services across campus.

#### **Distance Learning Program Manager- Instructional Technology Services (10/98-6/00)**

##### ***New Hanover County Schools- John T. Hoggard High School, Wilmington NC***

- Managed daily operations of the J.T. Hoggard HS Distance Learning Program: including technical design, maintenance, operation and purchase of program equipment and applications.
- Provided technical support, training and consultation to faculty, staff and students for distance education classes, conferences and programming on the State of NC ITS video network (NCIH).

Daniel Noonan, noonandq@gmail.com p.2/2

**Teaching Assistant- Exceptional Children Program (8/96-10/98) *New Hanover County Schools- Williams/Wrightsville Beach Elementary, Wilmington NC***

- State of NC Department of Public Instruction Scholarship Award Recipient: accepted tuition for UNCW Teacher Certification curriculum in exchange for (2) year commitment as Exceptional Children Program Teaching Assistant.
- Provided daily instruction, instructional support and maintained progress documentation for special education students.

**Volunteer Experience: AmeriCorps VISTA: Federal Domestic Volunteer Service Agency (9/95-12/95) FEMA Disaster Recovery Volunteer- *United States Virgin Islands***

- Responsible for building emergency temporary shelters for Hurricane Marilyn victims.
- Distributed food, water, first aid and emergency supplies to disaster victims.

**AmeriCorps VISTA: Federal Domestic Volunteer Service Agency (9/94-9/95) Environmental Conservation Volunteer- *Rogue River National Forest, Jacksonville, OR***

- Worked on a variety of conservation/preservation projects involving environmentally sensitive lands, natural resources and ecosystems.
- Trail construction/renovation, fish/wildlife habitat rehabilitation and reforestation projects.

**VISTA: Volunteers in Service to America (4/93-4/94) Teaching Assistant/Volunteer Coordinator- *Plateau Valley Schools, Collbran, CO***

- School District Volunteer Coordinator.
- Secondary Social Studies and Middle School Mathematics Teaching Assistant.

**Professional Certifications and Training:**

- Blackboard Vista Overview- UNCW ITSD Workshop (June 2009)
- Captivate Training- UNCW ITSD Workshop (June 2009)
- Camtasia Training- UNCW ITSD Workshop (June 2009)
- Sharepoint Training- UNCW ITSD Workshop (March 2009)
- IT Classroom Integration- InfoComm Las Vegas, NV (June 2008)
- The Interactive Classroom and Campus- InfoComm Las Vegas, NV (June 2008)
- Cisco Networking Technologies (INTRO) Training (May 2006)
- Polycom CVE (Certified Video Engineering) Training- Atlanta, GA (July 2004)
- Polycom (H.323/IP Based Video Communications) Technical Training- Atlanta, GA (July 2002)

**Professional Membership:**

- UNC-NCREN Statewide Video Group Committee Member (2000-Present)
- UNC-NCREN Statewide Program Coordinators Committee Member (2000-Present)
- UNCW Sustainability Committee- Transportation Chair (2008-Present)
- UNCW ITSD Green Team Committee Member (2008-Present)

□ UNCW ITSD Leadership Development Council- One year appointment by UNCW CIO  
(2008)

## Student Assistance for TIGER Grant Proposal

Kevin Kijowski

Exercise Science undergraduate, Department of Health and Applied Human Sciences, University of North Carolina Wilmington

Alex Carradine

Exercise Science undergraduate Department of Health and Applied Human Sciences, University of North Carolina Wilmington

Matthew Boulos

Exercise Science undergraduate, Department of Health and Applied Human Sciences, University of North Carolina Wilmington

Adrienne Walters

MPA program, University of North Carolina Wilmington