

## Christopher F. Dumas, Ph.D.

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### Education

Ph.D., 1997. University of California, Berkeley. Natural Resource Economics.  
M.S., 1991. University of California, Berkeley. Natural Resource Economics.  
B.S., 1990. North Carolina State University. Economics.  
B.S., 1990. North Carolina State University. Conservation/Environmental Science

### Employment

2009-Present -- Professor of Economics, University of North Carolina-Wilmington.  
2003-2008 -- Associate Professor of Economics, University of North Carolina-Wilmington.  
1997-2003 -- Assistant Professor of Economics, University of North Carolina-Wilmington

### Awards and Honors

2019-2020. National Academy of Sciences, Marine Recreational Information Program scientific review panel.  
2013-present. UNCW Society and Clocktower Society.  
2012. UNCW Chancellor's Teaching Award.  
2007. UNCW "Million Dollar Club" member. Achieved over \$1 million in cumulative grant awards at UNCW.  
2000. UNCW Chancellor's Outstanding Faculty Award.

### Peer-Reviewed

2023. Palacios-Abrantes, J., Crosson, S., Dumas, C. F., Fujita, R., Levine, A., Longo, C., & Jensen, O. P. Quantifying fish range shifts across poorly defined management boundaries. *PLOS ONE*, 18(1). p.17. <https://doi.org/10.1371/journal.pone.0279025>
2023. Buteau, Rebecca J., Rachael E. Urbanek and Christopher Dumas. Perceived and desired outcomes of urban coyote management methods. *Journal of Urban Ecology*. 9(1). <https://doi.org/10.1093/jue/juad007>
2021. Barbieri, Luiz R., Yong Chen, Chris Dumas, Michelle Duval, Steven G. Heeringa, Kai Lorenzen, Sean Powers, Steven Scyphers, Tien-Shui Tsou and Zhengyuan Zhu. *Data and Management Strategies for Recreational Fisheries with Annual Catch Limits*. National Academies of Sciences, Engineering, and Medicine. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26185>. [Dumas wrote the eight technical appendices and large portions of Chapter 4]
2021. Watanabe, W.O., P.M. Carroll, M.S. Alam, C.F. Dumas, J.E. Gable, T.M. Davis and C.D. Bentley. The Status of Black Sea Bass *Centropristis striata* As a Commercially Ready Species for U.S. Marine Aquaculture. *Journal of the World Aquaculture Society*. 52:541-565. DOI: 10.1111/jwas.12803
2021. Buteau, R, R. E. Urbanek, and C. Dumas. Public Interactions, Attitudes, and Conflict Regarding Management of a "Novel" Urban Species. *Human Dimensions of Wildlife*. 27(1):6-31. [doi.org/10.1080/10871209.2021.1875084](https://doi.org/10.1080/10871209.2021.1875084)
2019. Finegan, Katie, Chris Dumas and Nicole Elko. North Carolina Beach and Inlet Management Plan: An evaluation of a dedicated state beach nourishment fund. *Shore & Beach*. 87(1).
2015. Andrea Dell'Apa, Craig E. Landry, Anthony S. Overton, Evan Knight, Christopher F. Dumas, John C. Whitehead, and James H. Herstine. Comparative Analysis of the Catch Composition and Characteristics of the North Carolina Charter Boat Fishery between 1978 and 2007/08. *Fisheries*. 40(5):222-233.
2015. Watanabe, W., C.F. Dumas and P. M. Carroll. Production Economic Analysis of Black Sea Bass Juveniles to Support Finfish Mariculture Growout Industry Development in the Southeastern U.S. *Aquaculture Economics and Management*. 19:226-250.

2013. Whitehead, J.C., C.F. Dumas, C.E. Landry and J. Herstine. A Recreation Demand Model of the North Carolina For-Hire Fishery: A Comparison of Primary and Secondary Purpose Anglers. *Applied Economics Letters*. 20(16):1481-1484.
2011. Bin, O., B. Poulter, C.F. Dumas and J.C. Whitehead. Measuring the Impact of Sea-Level Rise on Coastal Real Estate: A Hedonic Property Model Approach. *Journal of Regional Science*. 51(4):751-767.
2011. Whitehead, J.C., C.F. Dumas, C.E. Landry and J. Herstine. Valuing Bag Limits in the North Carolina Charter Boat Fishery with Combined Revealed and Stated Preference Data. *Marine Resource Economics*. 26:233-241.
2011. Burrus, R.T., C.F. Dumas and J.E. Graham. Hurricane Risk and Coastal Property Owner Choices. *International Journal of Disaster Resilience in the Built Environment*. 2(2):pp 118-138.
2011. Cahoon, L. B., Dumas, C. F. Guest editors for special issue: "Making the Connection: Translating Science into Effective Coastal Policy". *Coastal Management Journal*. 39(3-4):223-224.
2010. Burrus, R.T., C.F. Dumas and J.E. Graham. Hurricanes and Homeowner Decision Making. *Journal of Financial and Economic Practice*. 10(2):1-11.
2010. Whitehead, J. C., Phaneuf, D. J., Dumas, C. F., Herstine, J., Hill, J., Buerger, B. Convergent Validity of Revealed and Stated Recreation Behavior with Quality Change: A Comparison of Multiple and Single Site Demands. *Environmental and Resource Economics*. 45(1): 91-112.
2009. Fernandez, L., Dumas, C. F. Cross-media pollution and fuels--Can we avoid future MTBEs?. *Energy Economics*. 31: 423-430.
2009. Whitehead, J. C., Poulter, B., Dumas, C. F., Bin, O. Measuring the Economic Effects of Sea Level Rise on Shore Fishing. *Mitigation and Adaptation Strategies for Global Change*. 14: 777-792.
2008. Dumas, C.F., and J.C. Whitehead. The Potential Economic Benefits of Integrated and Sustainable Ocean Observation Systems: The Southeast Atlantic Region. *Coastal Management Journal*. 36:146-164.
2008. John C. Whitehead , Christopher F. Dumas , Jim Herstine , Jeffery Hill , Bob Buerger. Valuing Beach Access and Width with Revealed and Stated Preference Data. *Marine Resource Economics*. 23:119-135.
2008. Dumas, C.F., W. Hall, P. Garrett. The Economic Impacts of Medicaid in North Carolina. *North Carolina Medical Journal*. 69(2):78-87.
2008. Burrus, Robert T., Christopher F. Dumas, and J. Edward Graham. Homeowner Responses to Hurricane Risk Perceptions. *Journal of Housing Research*. 17(1):49-60.
2007. Yates, J.K., W.O. Watanabe, C.F. Dumas, and T.M. Losordo. Production economics of summer flounder *Paralichthys dentatus* aquaculture in a marine recirculating system. Accepted for publication, in press, *Journal of the World Aquaculture Society*.
2007. Dumas, Christopher F., Robert T. Burrus, Jr. Erin Diener, Jenny Payne, and Jeff Rose. Valuing the Recreational Benefits of Sculpture in Public Parks. *Journal of Park and Recreation Administration*. 25(2):29-41.
2006. Christopher F. Dumas, John C. Whitehead, James H. Herstine, Robert B. Buerger, Jeffery M. Hill. Estimating Peak Demand for Beach Parking Spaces Under Capacity Constraints. Under review, *Shore and Beach*.
2005. Copeland, K., W. Watanabe, and C.F. Dumas. Economic Evaluation of a Small-Scale Recirculating System for Ongrowing of Captive Wild Black Sea Bass *Centropristis striata* in North Carolina. *Journal of the World Aquaculture Society*. 36(4):489-497.
2002. Burrus, R.T., C.F. Dumas and J.E. Graham. Catastrophic Risk, Homeowner Response and Wealth Maximizing Wind Damage Mitigation. *Financial Services Review*. 11:327-340.
2002. Burrus, R.T., C.F. Dumas, C.H. Farrell and W.W. Hall. The Impacts of Low-Intensity Hurricanes on Regional Economic Activity. *Natural Hazards Review*. 3(3):118-125.
2002. Dumas, C.F. and S. Horton. The Potential Impact of Summer Flounder Aquaculture on Regional Flounder Price. *Aquaculture Economics and Management*. 6(1):39-54.
2001. Burrus, Robert T., Christopher F. Dumas, and J. Edward Graham. "Determinants of Principles of Macroeconomics Homework Performance." *Journal of Economics and Economic Education Research*. 2: 13-19.
2001. Burrus, R.T., C.F. Dumas and J.E. Graham. The Cost of Coastal Storm Surge Damage Reduction. *Cost Engineering*. 43(3):38-44.
1999. Dumas, C.F. and R. Goodhue. The Cotton Acreage Effects of Integrated Pest Management: A County-Level Time-Series, Cross-Section Analysis. *Journal of Agricultural and Applied Economics*. 31(3).
1997. Schmitz, T., A. Schmitz and C. Dumas. Gains from Trade, Inefficiency of Farm Programs and the Net Economic Effects of Trading. *Journal of Political Economy*. 105(3):637-647.

1995. Dumas, C. and T. Schmitz. Measuring the Impacts of Environmental Regulation. *American Journal of Agricultural Economics*. 77:1172-1176.
1992. Martin, T.H., L.B. Crowder, C.F. Dumas and J.M. Burkholder. Indirect Effects of Fish on Macrophytes in Bays Mountain Lake - Evidence for a Littoral Trophic Cascade. *Oecologia*. 89(4):476-481.

### **Book Chapters**

2011. Dumas, C.F., J. Herstine, and J.C. Whitehead. "Joint estimation of revealed and stated preference trip and willingness-to-pay data to estimate the benefits and impacts of an Atlantic Intracoastal Waterway dredging and maintenance program." *Preference Data for Environmental Valuation*. Routledge publishers. New York, N.Y.
2010. Daniels, H., Watanabe, W., Murashige, R., Losordo, T., Dumas, C. F. In Daniels, H.V., and W.O. Watanabe (Ed.), *Culture of southern flounder*. Ames, Iowa: Willey-Blackwell.
2007. Dumas, C.F., W. Watanabe, H. Daniels, T. Losordo, and K. Yates. "Southern Flounder Growout Economics." Chapter in: *Southern Flounder Production in Recirculating Aquaculture Systems: Biology, Engineering and Economics*. North Carolina State University.
2005. Dumas, C.F., P. Schuhmann and J. Whitehead. "Measuring the Economic Benefits of Water Quality Improvement with Benefit Transfer: An Introduction for Non-Economists." Chapter in: *Effects of Urbanization on Stream Ecosystems*. L.R. Brown, R.H. Gray, R.M. Hughes and M.R. Meador, eds. American Fisheries Society.
2005. Burrus, R.T., C.F. Dumas and J.E. Graham. "Impacts of Insurance Deductibles and Hurricane Damage Perceptions on Mitigation Choices." Chapter in: *Economics and the Wind*, B. T. Ewing, J.S. Rawls and J. B. Kruse, eds. Nova Science Publishing.
2004. Dumas, C.F., and P. Schuhmann. 2003. Larry B. Crowder, Ransom A. Myers, Christopher Dumas, Sloan A. Freeman, Julia Baum, Melissa Snover, Andrea A. Treece, Peter Ward. Book: *Longline Fishing in the Northwest Atlantic: A Fishery in Crisis*. Pew Series in Marine Conservation, Island Press.
2002. Dumas, C.F., C.B. Moss and A. Schmitz. "Tradable Permits and Agricultural Sequestration of CO<sub>2</sub>." Chapter in book: *Agricultural Globalization, Trade and the Environment*. Edited by: Moss, Schmitz and Taylor (Univ. Florida) and Rausser & Zilberman (U.C. Berkeley). Natural Resource Management and Policy series, Kluwer Academic Publishers.
2002. Dumas, C.F., C.B. Moss and A. Schmitz. "Ex Ante Assessment of the FAIR Act." Chapter in book: *Agricultural Globalization, Trade and the Environment*. Edited by: Moss, Schmitz and Taylor (Univ. Florida) and Rausser & Zilberman (U.C. Berkeley). Natural Resource Management and Policy series, Kluwer Academic Publishers.
2001. Burrus, R.T., C.F. Dumas and J.E. Graham. "Hurricane Storm Surge: Cost-Effective Mitigation in Wilmington, North Carolina." Chapter in book: *Facing Our Future: Hurricane Floyd and Recovery in the Coastal Plain*. Coastal Carolina Press. Wilmington, NC.

### **Technical/Research Reports**

2021. Dumas, Christopher F. "Economic Impact Analysis of North Carolina's Commercial Fisheries -- Commercial Harvesters Survey." For: North Carolina Department of Environmental Quality, Division of Marine Fisheries. Morehead City, NC. DEQ Task Order No. 8007. pp. 88.
2020. Moccia, Haley, and Christopher F. Dumas. "Reducing Recycling Contamination through Education and Outreach." For: Department of Public Services, City of Wilmington, NC. pp. 43.
2020. Beyer, Elizabeth, and Christopher F. Dumas. "Demand for Post-Consumer Recyclables." For: Department of Public Services, City of Wilmington, NC. pp. 29.
2019. Dumas, Chris. Inland Recreational Fishing in North Carolina: Economic Impacts and Angler Benefits. For/Funded by: North Carolina Wildlife Resources Commission. Raleigh, NC. Contract: DIF-0027. 303 pp.
2019. Hill, J., C. Dumas, H. Hao, J. Herstine and A. Franzidis. Understanding Access and Visitor Use on North Carolina's Coastal Reserve System. North Carolina Department of Environmental Quality, North Carolina Division of Coastal Management. Morehead City, NC. NCDEQ Task 7446. 889 pp.
2018. Dumas, Chris, and Mary Jaskowiak. The Economic Impact of Water Quality on Coastal North Carolina Waterfront Property Value. For/Funded by: North Carolina Sea Grant, Project Number 2017-R/MG-1705. 67 pp.
2018. Dumas, Chris, and Brendan Manley. The Economic Impact of Carolina Beach Inlet Navigability on Waterfront Property Values. For: Carolina Beach Inlet Association. Funded by: UNCW Community Engagement Grant Program. 41 pp.

2017. Nessler, Genevieve M., and Dumas, Christopher F. A Biological and Economic Evaluation of Imperiled Marine Fish Stocks and the Stock Assessment Process in North Carolina. University of Maryland Center for Environmental Science. Solomons, MD. UMCES Technical Report Series #TS-703-17.
2016. Dumas, Christopher F. (with Moffatt & Nichol Engineers, Raleigh, NC). North Carolina Beach and Inlet Management Plan (BIMP)--2016 Update. NC Division of Coastal Management. Raleigh, NC.
2015. C.F. Dumas and P. Schuhmann. Socio-Economic Recreation Benefits from Potential Changes in Water Releases from John H. Kerr Reservoir. U.S. Army Corps of Engineers, Engineer Research and Development Center (ERDC), Vicksburg, MS (Cooperative Agreement: W912HZ-14-2-0011). 97 pp.
2015. C.F. Dumas. "PPD Beach to Battleship Triathlon Economic Impact Study." Wilmington, NC. For: YMCA of Wilmington, NC. 13pp.
2014. Dumas, Christopher F. "Study of the Economic Impacts of Carolina Beach Inlet Navigability." Carolina Beach Inlet Association. Carolina Beach, NC. 36 pp.
2014. Dumas, Christopher F., John Whitehead, Craig Landry. A study of the economic impacts of Oregon Inlet Navigability to Dare County, the Surrounding Region, and the state of North Carolina. With: Moffatt & Nichol, Inc., Raleigh, NC. 240 pp.
2011. Dumas, Christopher F. "Development of Commercial Loan Assessment Tools." Live Oak Bank. Wilmington, NC.
2010. Dumas, Christopher F. Economic analysis portions of: "Terminal Groin Study Associated with an Update of the Beach and Inlet Management Plan for the State of North Carolina." Moffatt and Nichol, Inc., for North Carolina Department of Environment and Natural Resources.
2010. Dumas, C.F. "Comprehensive Snapper-Grouper Annual Catch Limit (ACL) Amendment Economic Chapter Creation." U.S. South Atlantic Fisheries Management Council.
2010. Dumas, Christopher F. "Economic Impacts of Ending Overfishing for Red Snapper in the Southeastern United States." Pew Charitable Trusts.
2010. Watanabe, W., P. Carroll, T. Rezek, A. Myers, C. Bentley, A. Shah and C.F. Dumas. *A Practical Hatchery Manual for the Production of Black Sea Bass Fingerlings*. NC Sea Grant. (peer reviewed)
2009. Dumas, C. F. *Markets for Marine Biotechnology--Aquaculture*. Center for Marine Science, UNC-Wilmington. 121 pp.
2009. Dumas, C. F. *Markets for Marine Biotechnology--Natural Products and Nutraceuticals*. Center of Marine Science, UNC-Wilmington. 75pp.
2009. Bin, O., Dumas, C. F., Poulter, B., Whitehead, J. *Climate Change and the Economy*. Washington, DC: Bipartisan Policy Center / National Commission on Energy Policy. 34 pp.  
www.bipartisanpolicy.org/library/report/climate-change-and-economy-expected-impacts-and-their-implications
2009. Dumas, C. F. *Economic Impacts of the North Carolina For-Hire Ocean Striped Bass Fishery*. Raleigh, NC: North Carolina Sea Grant. (31 pp.).
2009. Dumas, C. F., Whitehead, J., Landry, C., Herstine, J. *Economic Impacts and Recreation Value of the North Carolina For-Hire Fishing Fleet*. Raleigh, NC: North Carolina Sea Grant. (171 pp.).
2009. Dumas, C. F., Hall, W. W., Graham, J. E. *Economic Impact Study of Manufacturing/Distribution Facility in Sampson County, North Carolina*. Sampson County Economic Development Commission. (pp. 41).
2009. Hall, W. W., Dumas, C. F., Schuhmann, P. W. *Economic Impact Study of the Production of a 'Mid-Major' Motion Picture on the Economy of Southeastern North Carolina*.
2008. "The Potential Impacts of Climate Change on Coastal North Carolina." A Report by the Faculty of the University of North Carolina Wilmington. C.F. Dumas, Chair, Report Committee. November 28, 2008.  
www.uncw.edu/aa/documents/UNCW%20Global%20Climate%20Change%20Final%20Report.pdf
2008. Dumas, C.F., and S. Templeton. "Estimating and Analyzing the Costs of Design-Bid-Build Projects for Stream Mitigation in North Carolina." NC Dept. Environment and Natural Resources.
2007. Bin, O., C. Dumas, B. Poulter and J. Whitehead. "Measuring the Impacts of Climate Change on North Carolina Coastal Resources." National Commission on Energy Policy. Washington, DC.
2007. Dumas, Christopher F., Troy Schmitz, and Christopher Giese. "Economic Implications of Plant-made Pharmaceuticals in North Carolina." (Monograph) Rural Advancement Foundation International. Pittsboro, NC. November.
2006. "A Study of the Benefits of Oregon Inlet to the Economy of Dare County and the Surrounding Region." Research report for: Dare County Inlet and Waterways Commission, NC. Coauthors: John Whitehead, Appalachian State University, Moffatt & Nichol engineering firm.

2005. Dumas, C.F. "Ocean Beach Vehicular Access Study at Fort Fisher State Recreation Area: Economic Impact Analysis." Research report for North Carolina Department of Environment and Natural Resources. Raleigh, NC.
2005. Dumas, C.F. "The Economic Impacts of Banning U.S. Longline Fishing." Report for Pew Charitable Trusts, Philadelphia, PA.
2005. Dumas, C.F., and M. Imperial. "The Economic Impacts of the Brunswick County, NC, Communities in Schools Program." Brunswick County Communities in Schools, Inc. Southport, NC.
2005. Dumas, C.F., and H. Hall. "The Economic Impacts of Medicaid in North Carolina." Research report for North Carolina Pediatric Society Foundation. Raleigh, NC.
2004. Imperial, M, L, Jones, C. F. Dumas. "Wrightsville Beach 2003 Survey of Beachgoers." Report for the City of Wrightsville Beach, NC.
2004. Dumas, C.F. "The Economic Impact of Manufacturing Activity Decline in Robeson County, NC." Report for Center for Community Action, Lumberton, NC.
2003. Dumas, C.F. "The Economics of the U.S. Trawl Fishing Industry." Research report for Oceana, Inc., Washington, DC.
- 2001-2002. Dumas, C.F. "The Impacts of Beach Sand Renourishment on Tourist Visitation Rates." U.S. Army Corps of Engineers. Wilmington, NC, USACE District Office.

### **Research Grants and Contract Research**

2023. Dumas, Christopher, and Spencer Rogers. The Effect of Beach Fill Easements on Oceanfront Property Values, NC Sea Grant, \$13,000.
2022. Crosson, Scott, Genny Nesslage, and Chris Dumas. Expanding fishing opportunities for the South Atlantic Snapper Grouper Fishery by minimizing discards. NOAA-NMFS South Atlantic Fishery Management Council. Jan. 2022--Dec. 2022. \$121,000 (UNCW sub-award \$21,984)
2020. Watanabe, Wade, Christopher F. Dumas, Md. Alam, Patrick Carroll and Kaitlyn Hudson. "Production Economic Analysis of Market Stage Black Sea Bass in a Recirculating Aquaculture System: Impacts of Improved Fingerling Prices, More Sustainable Feeds, and Faster Growth from Selective Breeding." NOAA Sea Grant. December 2020--November 2021. \$60,226.
2020. Dumas, Christopher F. "Adaptive Allocation Strategies for Transboundary Fish Stocks." Lenfest Ocean Program, Pew Charitable Trusts. September 2020--December 2022. \$31,500.  
<https://www.lenfestocean.org/en/news-and-publications/fact-sheet/new-research-on-adaptive-allocation-for-transboundary-fish-stocks>
2020. Dumas, Christopher F., Haley Moccia and Elizabeth Beyer. "Demand for Post-Consumer Recyclables" and "Reducing Recycling Contamination through Education and Outreach." Department of Public Services, City of Wilmington, NC. \$5,204.
2019. Harrison, J., E. Edwards, S. Sutherland, C. Dumas and J. Whitehead. Economic Analysis of North Carolina's Commercial Fisheries. North Carolina Commercial Fishing Resource Fund. \$378,960. (UNCW sub-award \$180,581)
2018. Dumas, Christopher F. "The Economics Impacts of The Cooperative Institute for Ocean Exploration, Research & Technology (CIOERT), 2009-2018." NOAA-OAR. \$64,252.
2018. Dumas, Christopher F. "The Economic Impacts of North Carolina Inland Fisheries." North Carolina Wildlife Resources Commission. Raleigh, NC. \$10,000.
2018. Gagne, Sara, Nikhil Kaza, Rachael Urbanek and Chris Dumas. "Creating an Interdisciplinary Network to Investigate the Drivers of Urban Biodiversity." The University of North Carolina Inter-Institutional Planning Grant program. Chapel Hill, NC. \$22,000.
2017. Hill, Jeff, Chris Dumas and Huili Hao. "Understanding Access and Visitor Use on North Carolina's Coastal Reserve System." North Carolina Division of Coastal Management, North Carolina Coastal Reserve and National Estuarine Research Reserve Program. Raleigh, NC. \$55,611.
2017. Christopher F. Dumas. The Impact of Water Quality on Coastal North Carolina Waterfront Property. NC Sea Grant minigrant program. \$3,763.
2017. Nesslage, Genevieve M., and Dumas, Christopher F. A Biological and Economic Evaluation of Imperiled Marine Fish Stocks and the Stock Assessment Process in North Carolina. University of Maryland Center for Environmental Science. Solomons, MD. UMCES Technical Report Series #TS-703-17. \$20,000.
2016. Dumas, Christopher F. The Economic Impact of Inlet and Waterway Navigability on Coastal North Carolina Real Estate Values. UNC-Wilmington Community Engagement Grant. \$4,887

2016. Dumas, Christopher F. (with Moffatt & Nichol Engineers, Raleigh, NC). North Carolina Beach and Inlet Management Plan (BIMP)—2016 Update. NC Division of Coastal Management. \$30,000
2016. Dumas, Christopher F. Economic Impacts of Crab Processing Operations in North Carolina. (for Cheshire Parker Schneider & Bryan, PLLC. Raleigh, N.C.) \$7,500.
2015. Dumas, Christopher F. Economic Impact of the North Carolina Beach Access Program. North Carolina Division of Coastal Management. \$83,794 (with Dr. Jim Herstine at UNCW.)
2015. Dumas, Christopher F. Assessing Health Outcomes and Cost-Effectiveness of Infant Mortality Reduction Programs in North Carolina. Region IV Public Health Training Center and N.C. Division of Public Health. \$4,000. (with Dr. Stephanie Smith, Director, Office of Community Engagement & Impact, College of Health & Human Services, UNCW)
2015. C.F. Dumas. PPD Beach to Battleship Triathlon Economic Impact Study. Wilmington, NC. For: YMCA of Wilmington, NC. 13pp. \$11,000.
2014. Dumas, Christopher F., and Peter Schuhmann. Socio-economic benefits from potential changes in water releases from John H. Kerr Reservoir. U.S. Army Corps of Engineers. \$26,800.
2014. Dumas, Christopher F., and Peter Schuhmann. Socio-economic benefits from potential changes in water releases from John H. Kerr Reservoir. The Nature Conservancy. \$15,000.
2014. Dumas, Christopher F. Study of the Economic Impacts of Carolina Beach Inlet Navigability. Carolina Beach Inlet Association. Carolina Beach, NC. \$7,700.
2013. Dumas, Christopher F., John Whitehead, Craig Landry. A study of the economic impacts of Oregon Inlet Navigability to Dare County, the Surrounding Region, and the state of North Carolina. With: Moffatt & Nichol, Inc., Raleigh, NC. \$80,526
2012. Dumas, Christopher F. Review: Economic Impacts of the Deepwater Horizon Disaster in Florida. Florida Legislature, Office of Economic and Demographic Research. \$3,000.
2011. Dumas, Christopher F. "Development of Commercial Loan Assessment Tools." Live Oak Bank. Wilmington, NC. \$10,048.
2010. Dumas, Christopher F. "Comprehensive Snapper-Grouper Annual Catch Limit (ACL) Amendment Economic Chapter Creation." U.S. South Atlantic Fisheries Management Council. \$16,000. (December 2010--February 2011).
2010. Dumas, Christopher F. "Terminal Groin Study Associated with an Update of the Beach and Inlet Management Plan for the State of North Carolina." Moffatt and Nichol, Inc., for North Carolina Department of Environment and Natural Resources. \$17,600.
2010. Dumas, Christopher F., and Eman Ghoneim. "North Carolina Coastal Homeowner Perceptions and Attitudes about Climate Change and Sea Level Rise. North Carolina Sea Grant. \$8,000. (November 2010-- April 2011).
2010. Hall, William, Christopher F. Dumas, J. Edward Graham. "Economic Impacts of Aquarium Pier Construction in North Carolina." North Carolina Aquarium Society. \$25,000 (February 2010 - February 2011).
2010. Dumas, Christopher F. "Economic Impacts of Ending Overfishing for Red Snapper in the Southeastern United States." Pew Charitable Trusts. \$15,000. (October 2009--May 2010).
2009. Dumas, Christopher F (Principal), "Markets for Marine Biotechnology Products," Sponsored by UNCW Center for Marine Science, University of North Carolina Wilmington, \$20,000. (June 1, 2009 - Present).
2009. Dumas, Christopher F (Co-Principal), Watanabe, Wade (Principal), "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. (July 1, 2009 - June 30, 2010).
2009. Dumas, Christopher F, "Supplemental Funding for Mariculture Black Sea Bass Market Research," Sponsored by North Carolina Sea Grant, State, \$700. (February 1, 2009 - January 19, 2010).
2009. Dumas, Christopher F, "Economic Impacts of the North Carolina For-Hire Striped Bass Fishery," Sponsored by North Carolina Sea Grant, State, \$2,500. (March 20, 2009 - September 30, 2009).
2009. Dumas, Christopher F (Co-Principal), Hall, William W (Principal), Schuhmann, Peter W (Co-Principal), "Economic Impact Study of the Production of a 'Mid-Major' Motion Picture on the Economy of Southeastern North Carolina," Sponsored by Wilmington Regional Film Commission, Inc., Local, \$9,060. (March 20, 2009 - September 30, 2009).
2009. Dumas, Christopher F (Principal), Hall, William W (Co-Principal), Graham, J E (Co-Principal), "Economic Impact Study of Proposed Project in Sampson County, North Carolina," Sponsored by Sampson County Economic Development Commission, Local, \$10,000. (June 2009 - July 2009).
2008. North Carolina Biotechnology Center, Regional Development Grant Program. "Assessing Metro Niche Market Demand for North Carolina Mariculture Products." \$33,730. (Dumas lead PI)

2008. NC Research Competitiveness Grant Program (NC Legislature). "North Carolina Coastal Hazards: Economic Implications of Severe Storms and Sea-level Rise." Joint project with many UNC-system collaborators. \$288,694 (Dumas sub-award \$6,725).
2007. NC Dept. Environment and Natural Resources. "North Carolina Beach and Inlet Management Plan." Joint project with Moffatt and Nichol engineering consultants. \$750,000.
2007. NC Sea Grant. "Economic Impacts of the North Carolina For-Hire Recreational Fishing Fleet." Joint project with Jim Herstine, UNCW, John Whitehead, Appalachian State University, Craig Landry, East Carolina University, and Tim Hatcher, NC State University. (Dumas lead PI) \$70,348.
2006. National Ocean and Atmospheric Administration (NOAA). "Commercialization of black sea bass aquaculture: nursery, growout and marketing." Joint with Wade Watanabe, UNCW Center for Marine Science. \$400,000
2006. U.S. Department of Agriculture. "Controlled breeding, larviculture, intensive growout and marketing of high-value marine finfish species for US agriculture." Joint with Wade Watanabe, UNCW Center for Marine Science. \$293,745.
2006. NC Sea Grant. "An Assessment of Public Awareness of Rip Currents in New Hanover County, NC." Joint project with Jim Herstine, Doug Gamble, Mark Imperial and Steve Meinhold, UNCW. \$3,982.
2006. Rural Advancement Foundation International-USA. "Evaluating pharmaceutical crops' promise as a rural development strategy for the state of North Carolina." \$10,000.
2006. National Commission on Energy Policy. "Measuring the Impacts of Climate Change on North Carolina Coastal Resources" Joint project with Ben Poulter, Duke University, Paul Bin, East Carolina University and John, Whitehead, Appalachian State University. \$50,000.
2006. NC Pediatric Society Foundation. "The Economic Impacts of Medicaid Payments in North Carolina." Follow on project work: \$10,000.
2005. NC Dept. Environment and Natural Resources. "Estimating and Analyzing the Costs of Stream Restoration in North Carolina." Joint project with Dr. Scott Templeton, Clemson University. \$83,486.
2005. NC Sea Grant, NC Dept. Environment and Natural Resources, and NC Beach, Inlet and Waterways Association. "Atlantic Intracoastal Waterway Economic Impacts and Economic Benefits Study." Joint project with Jim Herstine and William Hall, UNCW, and John Whitehead, Appalachian State University. \$112,000.
2005. Dare County, NC. "The Economic Benefits of Oregon Inlet." Joint project with William Hall, UNCW, John Whitehead, Appalachian State University, and Moffatt and Nichol Engineers. \$75,000.
2005. NC Pediatric Society Foundation. "The Economic Impacts of Medicaid Payments in North Carolina." Joint project with William Hall, UNCW. \$10,000.
2005. Brunswick County Community in Schools Program. "The Economic Impacts of the Brunswick County Community in Schools Program." Joint project with Mark Imperial, UNCW. \$6,800.
2004. Pew Charitable Trusts. "The Cost of Buying Out the Pelagic Longline Fishery." \$12,000.
2004. City of Jacksonville, NC. "Measuring the Economic Benefits of Water Quality Improvements in the New River, NC—A Feasibility Assessment." \$5,000.
2004. NC Dept. Environment and Natural Resources. "Fort Fisher Ocean Beach Vehicle Study." Joint project with Jim Herstine, Jeff Hill and Bob Buerger, UNCW. \$25,000.
2004. NC Sea Grant. "The Potential Economic Benefits of Coastal Ocean Observing Systems." Joint project with John Whitehead, Appalachian State University. \$31,406.
2002. Oceana, Inc. "The Economics of the U.S. Trawl Fishing Industry." \$8,000.
2001. Pew Charitable Trusts. "Regulation of Longline Pelagic Fishing." Joint project with Duke University and Peter Schuhmann, UNCW. \$1,100,000.
2000. UNCW Charles L. Cahill Award for Faculty Research and Development. "Survey to Assess Hurricane Risk Aversion Among Wilmington, NC, Property Owners." University-wide competitive grant. \$2,500.
2000. UNCW Innovation Technology Teaching Grant. "Real-Time Internet Investment Challenge." \$3,880.
1999. University of South Carolina, Center for Applied Real Estate Education and Research grant award. "Hurricanes, Insurance and Coastal Real Estate Values." Joint project with Ed Graham and Rob Burrus, UNCW. \$10,000.
1999. William R. Kenan, Jr. Fund award. "Summer Flounder Aquaculture." Joint award with Wade Watanabe, UNCW. \$80,000.
1999. UNCW Center for Marine Science Research Pilot Project competitive grant award. "Analysis of Summer Flounder Aquaculture Production and Economics." \$5,472.
1998. BB&T Faculty Fellows Program Research Grant Award. Extramural grant. \$4,500.
1998. UNCW Cameron School of Business Summer Competitive Research Grant. \$4,000.

1998. UNCW Charles L. Cahill Award for Faculty Research and Development. Competitive grant. \$2,500.

### **Undergraduate Teaching**

#### Courses Taught:

EVS 195 Introduction to Environmental Science  
ECN 221 Principles of Microeconomics  
ECN 321 Intermediate Microeconomics  
ECN 325 Environmental Economics  
ECN 377 Econometrics  
ECN 422/477 Advanced Econometrics  
ECN 495 Economic Impact Analysis  
EVS 410 Environmental Modeling  
EVS 483 Fisheries Policy and Management  
EVS 485 Estuarine Aquatic Drones  
EVS 485 Introduction to R Software  
INB 300 International Business

#### International Courses:

ECN 325 Environmental Economics. (Hochschule Bremen, Bremen, Germany. July 2010, July 2011, July 2012).

#### Undergraduate Honors Theses (recent only)

2021. ECN 499. Schmoeker, Marissa. The Effect of Economic Stability on the Occurrence of Civil Protests in Latin America. December 2021. Member.  
2020. EVS 499. Tilley, Avery. Willingness to Pay for Pilot Mountain State Park. UNC-Wilmington, Dept. Economics and Finance. May 2020. Member.  
2020. EVS 499. Clancey, Emily. Zostera Marina Seed Bank Resiliency Following Hurricane Florence. UNC-Wilmington, Dept. Marine Biology. May 2020. Member.  
2020. EVS 499. Church, Trevor. Evidence of the Environmental Kuznets Curve Among U.S. States and the Impact of Land Conservation. UNC-Wilmington, Dept. Economics and Finance. Member.  
2014. ECN 499. Laverry Kumar. Factors Affecting University Division I Women's Golf Recruiting.  
2014. EVS 499. Samantha Thompson. The Value of the Green Initiative Fund to the University of North Carolina Wilmington.  
2014. CRW 499. Qualia Hendrickson. When the Bull Market Fell.  
2011. EVS 499. Elizabeth Rivers. Wetland Valuation: A Comparison of Natural and Man-Made Wetlands.

#### Undergraduate Directed Independent Studies (DIS) (recent only)

2021. EVS 491. Coriale, Genevieve. Risks to sea turtle populations, sea turtle rescue, and sea turtle rehabilitation centers. December 2021. UNC-Wilmington, Dept. Environmental Sciences. Chair.  
2021. EVS 491. Cozart, Lyndon. Aquatic Drone Scientific Instrumentation. UNC-Wilmington, Dept. Environmental Sciences. Summer 2021. Chair.  
2020. EVS 491. Rogers, William. A Matrix Population Model of the Coyote (Canis latrans) Life Cycle. UNC-Wilmington, Dept. Environmental Sciences. Chair.  
2020. EVS 491. Moore, Thomas. Interactive Digital Media Skills for Fisheries Public Education and Outreach. UNC-Wilmington, Dept. Environmental Sciences. Chair.  
2014. ECN 491. Catherine Jordan. The Global Financial Crisis of 2007 and its Effects on Unemployment in the Year 2009.  
2013. ECN 491. Nikolai Lipscomb. Performer Willingness to Pay for Musical Study.  
2012. ECN 491. Kenny Rich. Topics in Industrial Organization.



## **Graduate Teaching**

### Courses Taught

ECN 585 Environmental Economics  
EVS 510 Environmental Modeling  
EVS 583 Fisheries Policy & Management  
EVS 519 Advanced Applied Environmental Research  
PLS 501 Quantitative Methods for Public Administrators  
MBA 533 Game Theory for Managers

### Master's Thesis Supervision

2022. Master's Committee Co-Chair. "Production Economics of Black Sea Bass in a Recirculating Aquaculture System and Sensitivity to Genetically Induced Growth Increases and Alteration of Protein Source in Aquafeed." M.S. in Marine Science. UNC-Wilmington. Advised: Kaitlyn, A. Hudson.
2015. Master's Committee Member. "Coupling oyster and clam aquaculture on a rack and bag system in southeastern North Carolina," MS in Marine Science, UNCW Center for Marine Science. Advised: James Hargrove.
2012. Master's Committee Co-Chair, "Production Economics of Black Sea Bass *Centropristis Striata* in a Recirculating Aquaculture System," MS in Marine Science, UNCW Center for Marine Science. Advised: Chris Resimius.
2011. Master's Committee Member, "Foreign Exchange Rate Risk," International MBA, UNCW Cameron School of Business. Advised: Casey Sawhook.
2011. Master's Committee Member, "Financial Analysis of the Transport of Wood Chips as an Option Among Other Solid Fiberbased Combustibles from the USA to Germany," International MBA, UNCW Cameron School of Business. Advised: Wulf-Clemens von Wuehlisch.
2010. Master's Committee Chair, "Firm-Level Utilization of Tradable Green House Gas Permits with a Non-Malleable Substitute Control Technology," International MBA, UNCW Cameron School of Business. Advised: Sylvain Lefebvre
2010. Master's Committee Member, "Space and Place in Fisheries: Investigating Catch Controls in View of Marine Protected Areas and Spatial Stock Structure," MS Environmental Studies. UNCW Environmental Studies. Advised: Amber Morris
2009. Master's Committee Chair, "Potential Financial Cost and Feasibility of Offshore Wind Power in Germany," International MBA, UNCW Cameron School of Business. Advised: Nils Goettner
2009. Master's Committee Member. "Mapping Land Use Change as an Indicator for Live Coral Cover at Boracay Island, Philippines." MS in Marine Science, UNCW Center for Marine Science. Advised: Amanda Williams.
2008. Master's Committee Co-Chair, "Analysis of a Niche Market for Farm-Raised Black Sea Bass *Centropristis Striata* in North Carolina," MS in Marine Science, UNCW Center for Marine Science. Advised: James Wilde.
2004. Master's Committee Co-Chair. "Production Economics of Summer Flounder Aquaculture." MS in Marine Science. UNCW Center for Marine Science. Advised: Kevin Yates.

### **Recent Professional Development Activities**

2020. Training. Intermediate Bayesian analysis in R. Professional training workshop, American Fisheries Society annual conference. Sept. 2020.
2020. Training. Introduction to Bayesian analysis in R. Professional training workshop, American Fisheries Society annual conference. Sept. 2020.
2020. UNC System "Designing Effective Online Courses" (20-hour online course). July 2020. Completion certificate: August 6, 2020
2020. UNCW Online Teaching course -- Building a course online. July 22, 2020

2019. Training. Intermediate R software class. Professional training workshop, American Fisheries Society annual conference. Sept. 2019.

2019. Training. Beginning R software class. Professional training workshop, American Fisheries Society annual conference. Sept. 2019.

2017. Self-study. Python. December-February 2017.

2016. Self-study. ArcMap. August-Sept. 2016.

2016. Workshop, "Economics Teaching Workshop," UNC-Wilmington, Wrightsville Beach, NC, USA. (October 2016).

2016. Workshop, "NextUp Faculty Leadership Workshop Series," UNCW, Wilmington, NC, USA. (September 4, 2015 - May 1, 2016).

2016. Conference Attendance, "UNC-General Administration Tour," UNCW NextUp Faculty Leadership program, Chapel Hill, NC, USA. (April 7, 2016 - April 8, 2016).

2015. Self-study. Python computer programming language. December 2015.

2015. Training, "Bloomberg terminal training," UNCW-CSB, Wilmington, NC, USA. (September 4, 2015).

2014. Workshop, "Economics Teaching Workshop," UNC-Wilmington, Wrightsville Beach, NC, USA. (October 4, 2014).

2013. Foreign language course: German 202. UNC Wilmington. 3-credit semester course. Grade: A.

2012. Foreign language course: German 201. UNC Wilmington. 3-credit semester course. Grade: A.

2011. Foreign language course: German 102. UNC Wilmington. 3-credit semester course. Grade: A.

2010. Foreign language course: German 101. UNC Wilmington. 3-credit semester course. Grade: A.

2009. Attended seminar, "Climate Science," National Aeronautics and Space Administration (NASA). (October 27, 2009).

### **Recent Professional Presentations**

Dumas, Chris (presenting) and Samantha Herman (EVS grad student). "The Potential Economic Impacts of Climate Change on N.C. Commercial Fishing." Carolinas Climate Resilience Conference. May 10, 2021.

Herman, Samantha (EVS grad student)(presenting) and Chris Dumas. "The Potential Economic Impacts of Climate Change on N.C. Commercial Fishing." American Fisheries Society Annual Meeting. September 14-25, 2020.

Dumas, Christopher. (presenting) "Measuring the Angler Benefits and Economic Impacts of Freshwater Fishing in North Carolina." American Fisheries Society Annual Meeting. September 14-25, 2020.

Herman, Samantha (EVS grad student) and Chris Dumas (presenting). "The Potential Economic Impacts of Climate Change on N.C. Commercial Fishing." Southern Economics Association Annual Meeting. November 21-23, 2020.

Dumas, Christopher, and Thomas Moore (EVS undergrad student). (co-presenters)"Efficient and Fair Fish Quota Allocation – Dynamic Extensions of Sperner’s Lemma." Southern Economics Association Annual Meeting. November 21-23, 2020.

Urbanek, Rachael (presenting), Rebecca Buteau and Christopher Dumas. "Precautionary Approaches to Set Baselines for Future Management of Coyotes in an Urban County." The Wildlife Society annual conference. September 28-October 2, 2020.

Dumas, C.F. (presenting). "Economic Impacts and Angler Benefits of Freshwater Fishing in North Carolina." Southern Economics Association annual conference. Ft. Lauderdale, FL. (November 23-25, 2019).

Dumas, C.F. (presenting), and Troy Frensley. "Citizen Science Vs. Survey Design—A Comparison of MyFishCount and M.R.I.P." American Fisheries Society annual conference. Reno, NV. (Sept. 27-Oct. 2, 2019).

Dumas, C.F. (presenting), Huili Hao and Ryan Mantica. "Gen-X: Household Behavior and Willingness to Pay for Removal of an Unregulated Toxic Drinking Water Pollutant." Southern Economics Association 88th Annual Meeting, Washington, DC. (November 18-20, 2018).

Dumas, C.F. (presenter), and Brendan Manley. "The Impacts of Inlet Navigability on Coastal Property Values." Southern Economics Association 88th Annual Meeting, Washington, DC. (November 18-20, 2018).

Dumas, C.F. "Adding Logic and Proof Concepts to Your Intro Economics Courses." Southern Economics Association 88th Annual Meeting, Washington, DC. (November 18-20, 2018).

Dumas, C.F. "The Future of Fish." 7th Annual NC Catch Summit. Southport, NC. (March 13, 2018).

Dumas, C.F. "Economic Value and Economic Impacts of North Carolina’s Public Beach Access Program." Southern Economics Association Annual Meeting, Tampa, FL. (November 17-19, 2017).

- Dumas, C.F. "Achieving Efficient and Equitable Pollution Control Allocation-- Applications of Sperner`s Lemma." Southern Economics Association Annual Meeting, Tampa, FL. (November 17-19, 2017).
- Dumas, C.F. "Achieving Efficient and Fair Fishery Allocation--New, Practical Methods." American Fisheries Society annual meeting, Tampa, FL. (August 22, 2017)
- Dumas, C.F. "Coastal Mariculture Economics—Overview and the Future." North Carolina Coastal Conference. Sponsored by NC Sea Grant. April 5, 2017.
- Dumas, C.F. "Sperner's Lemma—Practical, Efficient and Fair Allocation in Fisheries Management," Southern Economics Association Annual Meeting, Washington, D.C. (November 16, 2016).
- Dumas, C.F., Schuhmann, P.W., F. Mansfield. "Reservoir Recreation in the South: Willingness to Pay and Impacts of Water Release Policy," Southern Economics Association Annual Meeting, New Orleans. (November 21, 2015).
- Dumas, C.F., Hritz, N.M. "Triathlon 'Iron Man' Events: Willingness to Pay and Economic Impacts," Southern Economics Association Annual Conference, New Orleans. (November 21, 2015).
- Dumas, C.F. (Presenter & Author), N.C. Coastal Resources Management Commission Meeting (N.C. Governor Pat McCrory presiding.) "Economic Impacts of N.C. Beaches, Inlets and AIWW Navigability." Wilmington, NC. (Oct. 22, 2014).
- Dumas, C.F. (Presenter & Author), New Hanover County Board of Commissioners Meeting, "Carolina Beach Inlet Economic Impact Study Presentation." Wilmington, NC. (Sept. 15, 2014).
- Dumas, C.F. (Presenter & Author), NC Legislature Information Breakfast, "The Economic Value of Coastal North Carolina Inlets." Raleigh, NC. (Febr. 21, 2013).
- Dumas, C.F. (Presenter & Author), Carolina Beach Inlet Association, "The Economic Value of Coastal North Carolina Inlets." Raleigh, NC. (Febr. 5, 2013).
- Dumas, C.F. (Presenter & Author), NC Legislature Information Breakfast, "The Economic Value of Coastal North Carolina Inlets." Raleigh, NC. (June 21, 2012).
- Graham, J. E. (Presenter & Author), Burrus, R. T. (Author Only), Dumas, C. F. (Author Only), American Real Estate Society 2011 International Conference, "Hurricane Risk and Coastal Property Owner Choices," Seattle, Washington. (April 2011).
- Dumas, C. F. (Presenter & Author), Goettner, N. (Author Only), Southern Economic Association Annual Meeting, "Potential Financial Cost and Feasibility of Offshore Wind Power in Germany," Southern Economics Association, Atlanta, GA. (November 21, 2010).
- Dumas, C. F. (Presenter & Author), Burrus, R. T. (Author Only), Graham, J. E. (Author Only), The Coastal Society 22nd International Conference, "North Carolina Coastal Homeowner Adaptation to Changing Hurricane Risk," The Coastal Society, Wilmington, NC. (June 16, 2010).
- Dumas, C. F. (Presenter & Author), Whitehead, J. (Author Only), Landry, C. (Author Only), Herstine, J. H. (Author Only), The Coastal Society 22nd International Conference, "Economic Impacts of the North Carolina Charter and Headboat Recreational Fishing Fleets," The Coastal Society, Wilmington, NC. (June 15, 2010).
- Dumas, C. F. (Presenter & Author), Gamble, D. W. (Author Only), Long, C. (Author Only), The Coastal Society 22nd International Conference, "North Carolina Coastal Homeowner Knowledge and Attitudes about Climate Change and Sea Level Rise Risks," The Coastal Society, Wilmington, NC. (June 15, 2010).
- Dumas, C. F. (Presenter & Author), Terminal Groin Study Presentation, "The Economics of Terminal Groins," North Carolina Division of Coastal Management, Raleigh, NC. (February 8, 2010).
- Dumas, C. F. (Presenter & Author), Gamble, D. W. (Presenter & Author), Cahoon, L. B. (Presenter & Author), Saturday Community Seminar, "The Potential Impacts of Climate Change on Coastal North Carolina," Cape Fear River Watch, Wilmington, NC. (February 6, 2010).
- Dumas, C. F. (Presenter & Author), Wilde, J. (Author Only), Watanabe, W. (Author Only), North Carolina Aquaculture Development Conference, "Metro Market Demand for North Carolina-Grown Black Sea Bass," North Carolina Aquaculture Association, Atlantic Beach, NC. (January 22, 2010).
- Dumas, C. F. (Presenter & Author), Southeastern North Carolina Biotechnology Roundtable, "Metro Market Demand for North Carolina-Grown Black Sea Bass," North Carolina Biotechnology Center, Wilmington, NC. (December 9, 2009).
- Dumas, C. F. (Presenter & Author), North Carolina Coastal Resources Commission Science Advisory Panel, "Economics Methodology for Terminal Groin Study," North Carolina Coastal Resources Commission, Raleigh, NC. (December 1, 2009).

- Dumas, C. F. (Presenter & Author), Assessing the Potential Impacts of Sea Level Rise in North Carolina, "Sea Level Rise: Knowledge and Attitudes of North Carolina Coastal Homeowners," North Carolina University System Marine Science Roundtable, Ft. Caswell Conference Center, NC. (November 23, 2009).
- Dumas, C. F. (Presenter & Author), Gamble, D. W. (Presenter & Author), Technical Briefing to North Carolina Senators and Congressmen, "The Potential Impacts of Climate Change on Coastal North Carolina.," Southern Alliance for Clean Energy, Washington, DC. (October 22, 2009).
- Graham, J. E. (Presenter & Author), Burrus, R. T. (Presenter & Author), Dumas, C. F. (Author Only), Hurricane Floyd Symposium, "Hurricanes and Homeowner Decision-Making," Center for Natural Hazards Research, Greenville, NC. (September 18, 2009).
- Dumas, C. F. (Presenter & Author), North Carolina Coastal Resources Commission meeting, "The Economics of Using Terminal Groins in Beach Management," North Carolina Coastal Resources Commission, New Bern, NC. (September 14, 2009).
- Dumas, C. F. (Presenter & Author), The Coastal Society Conference Planning Workshop, "NC Coastal Issues for 2009 Conference Sessions," The Coastal Society, Wilmington, NC. (June 1, 2009).
- Dumas, C. F. (Presenter & Author), NC Sea Level Rise Study Planning Workshop, "Economics studies and data to support NC Sea Level Rise study," NC Divisions Emergency Mgmt / RENCI, SAS Institute, Cary, NC. (April 2, 2009).
- Dumas, C. F. (Presenter & Author), Sampson County Logistics/Distribution Center Planning Workshop, "UNC-Wilmington resources to support planning," Sampson County Economic Development Agency, Clinton, NC. (March 23, 2009).
- Dumas, C. F. (Presenter & Author), 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. (Presenter & Author), Alam, M. (Author Only), Dumas, C. F. (Author Only), Lee, R. (Author Only), Losordo, T. (Author Only), DeLong, D. (Author Only), Nardi, G. (Author Only), Bentely, C. (Author Only), Rezek, T. (Author Only), Sullivan, K. (Author Only), Wild, J. (Author Only), Myers, A. (Author Only), Aquaculture America 2009, "Progress and constraints toward Commercialization of black sea bass aquaculture in the US: hatchery, NURSERY, growout and marketing," World Aquaculture Society, Seattle, USA. (February 18, 2009).
- Wilde, J. D. (Presenter & Author), Dumas, C. F., Watanabe, W. (Author Only), Aquaculture America 2009, "Analysis of niche market demand for farm-raised black sea bass *Centropristis striata* in three major metropolitan cities: Miami, Philadelphia and New York City.," United States Aquaculture Society, Seattle, Washington. (February 16, 2009).
- Watanabe, W. (Presenter Only), Alam, M. (Author Only), Carroll, P. M. (Author Only), Rezek, T. C. (Author Only), Bentley, C. D. (Author Only), Myers, A. (Author Only), Dumas, C. F., Daniels, H. V. (Author Only), Losordo, T. M. (Author Only), North Carolina Aquaculture Development Conference 2009, "Update on Marine Finfish Culture in NC: Research and Commercial Pilot Initiatives," North Carolina Department of Agriculture and Consumer Services, Atlantic Beach, NC. (January 2009).
2008. "Economics Research to Support Ecosystem Services Planning." US Environmental Protection Agency Coastal Carolinas Ecosystems Services Planning Workshop. USEPA/ORD National Exposure Research Laboratory, Research Triangle Park, NC. July 9-11.
2008. "The Economic Impacts of the Saltwater Recreation Industry in North Carolina." The Coastal Society conference. Redondo Beach, CA. June 29-July 2.
2008. Wilde, J., C.F. Dumas, and W. Watanabe. "Analysis of the niche restaurant market for farm-raised black sea bass, *Centropristis striata*, in North Carolina." World Aquaculture Society Conference, Orlando, FL. Febr. 12.
2008. "Potential Impacts of Global Warming on North Carolina's Coastal Economy." Presentation before the NC Legislative Commission on Global Climate Change. January 16.
2007. "Willingness to Pay for Rip Current Awareness and Education Programs." Southern Economics Association annual conference. New Orleans, LA. Nov. 2007.
2007. "Southern Flounder Growout Economics." Southern Flounder Aquaculture Workshop. Wallace, NC. Sept. 27, 2007.
2007. "Estimation and Analysis of EEP-Administered Stream Restoration Project Expenses in North Carolina." with Scott Templeton and William Sessions, Clemson University. American Agricultural Economics Association annual meeting. Portland, Oregon. July 29-August 1.

2007. "The Economics of Black Sea Bass (*Centropristis striata*) Fingerling Production in Recirculating Aquaculture Systems." Aquaculture 2007 Conference, World Aquaculture Society. San Antonio, TX. Febr.28-Mar.2.
2006. "The Magnitude and Duration of Hurricane Impacts on Beach Hotel Occupancy and Room Rental Rates." Southern Economics Association annual meeting. November 18-21.
2006. "The Recreation Value and Economic Impact of North Carolina's Intracoastal Waterway and Shallow Draft Inlets." Southern Economics Association annual meeting. November 18-21.
2006. "The Economics of Recreational Boating on the Atlantic Intracoastal Waterway." NC Beach, Inlet and Waterways Association annual meeting. Carolina Beach, NC. Nov. 13-14.
2006. "The Economics of Southern Flounder Grow-out." NCSU-UNCW Southern Flounder Aquaculture Workshop. NC State University. Raleigh, NC. March 16-17.
2005. "Estimating Peak Demand for Beach Parking Spaces." Southern Economics Association annual meeting. November 17-20.
2005. "The Impact of Perceived Hurricane Risk on Homeowner Mitigation." Southern Economics Association annual meeting. November 17-20.
2005. "The Atlantic Intracoastal Waterway Economic Study." North Carolina Beach, Inlet and Waterway Association annual conference. Carolina Beach, NC. September 5.
2005. Panel member: "Understanding Hurricanes." University of North Carolina – Wilmington. Wilmington, NC. September 14.
2005. Panel member: "Socio-economic Assessment of the Southeast Ecosystem." Coastal Policy Conference on Ecosystem-Based Approaches to Management in the Southeast Region. Wilmington, NC. November 14-15.
2005. UNCW Special Tsunami Learning Workshop panel member "The Economics of Tsunamis." Spring 2005.
2004. "Estimates of Coastal Homeowner Risk Aversion to Hurricane Damage." Southern Economics Association annual meeting. November 21-23.
2004. "Cross-Media Pollution and Incentive Mechanism Design." Southern Economics Association annual meeting. November 21-23.
2004. "The Economic Impact of Manufacturing Activity Decline in Robeson County, NC, 1993-2003." National Conference on Job Loss and Recovery in Rural America. Lumberton, NC. October 1-2.
2003. "U.S. Trawl Fisheries—Diversity, Economics and the Question of Sustainability." Duke University Marine Science Seminar. Invited presentation. October 10.
2003. "The Impact of Beach Nourishment Projects on Beach Visitation." Southern Economics Association annual conference. San Antonio, TX. November 20.
2003. "The Impacts of Insurance Deductibles and Hurricane Damage Perceptions on Mitigation Choices." Southern Economics Association annual conference. San Antonio, TX. November 2003.
2003. "The Economics of the U.S. Trawl Fishing Industry." Duke University Marine Lab Research Seminar Series. Duke Marine Lab. Beaufort, NC. October 23.

## Service Activities

### Professional service activities

2022. South Atlantic Fisheries Management Council -- Science and Statistical Advisory Committee.  
2022. South Atlantic Fisheries Management Council -- Allowable Biological Catch Control Rule Review Working Group.  
2022. South Atlantic Fisheries Management Council -- Fish Recruitment Modeling Working Group.  
2022. Manuscript Reviewer--Marine Resource Economics  
2022. Manuscript Reviewer--Journal of the World Aquaculture Society
2021. National Academy of Sciences, Marine Recreational Information Program scientific review panel.  
2021. Committee Member, South Atlantic Fisheries Management Council, Scientific and Statistical Committee, Charleston, SC.  
2021. Committee Member, South Atlantic Fisheries Management Council, Socio-Economics Advisory Panel, Charleston, SC.  
2021. Sub-Committee Member, Allowable Biological Catch (ABC) Control Rule Review. South Atlantic Fisheries Management Council, Charleston, SC.  
2021. Sub-Committee Member, Fish Recruitment Modeling and Projections Review. South Atlantic Fisheries Management Council, Charleston, SC.  
2021. Manuscript reviewer. Marine Resource Economics.
2020. National Academy of Sciences, Marine Recreational Information Program scientific review panel.  
2020. Committee Member, South Atlantic Fisheries Management Council, Scientific and Statistical Committee, Charleston, SC.  
2020. Committee Member, South Atlantic Fisheries Management Council, Socio-Economics Advisory Panel, Charleston, SC.  
2020. Committee Member, South Atlantic Fisheries Management Council, "Category 4 Fish Stocks Ad-hoc Working Group." SAFMC, Charleston, S.C.  
2020. Manuscript Reviewer. Marine Resource Economics.  
2020. Manuscript Review Committee (Environmental Economics sessions). Southern Economics Association annual meeting.
2019. National Academy of Sciences, Marine Recreational Information Program scientific review panel.  
2019. Committee Member, South Atlantic Fisheries Management Council, Scientific and Statistical Committee, Charleston, SC.  
2019. Manuscript Reviewer. Marine Resource Economics.  
2019. Manuscript Reviewer. Fisheries Research.  
2019. Manuscript Review Committee (Environmental Economics sessions). Southern Economics Association annual meeting.
2018. Committee Member, South Atlantic Fisheries Management Council, Scientific and Statistical Committee, Charleston, SC.  
2018. Manuscript Review Committee (Environmental Economics sessions). Southern Economics Association annual meeting.
2017. Committee Member, South Atlantic Fisheries Management Council, Economics Advisory Committee, Charleston, SC.  
2017. Manuscript Reviewer. Coastal Management Journal.  
2017. Manuscript Reviewer. Letters in Spatial and Resource Sciences.  
2017. Manuscript Reviewer. Ecological Economics.  
2017. Proposal Reviewer. NC Sea Grant.  
2017. Proposal Reviewer. Wisconsin Sea Grant.

2016. Committee Member, South Atlantic Fisheries Management Council, Economics Advisory Committee, Charleston, SC.  
2016. Manuscript Reviewer, Association of Agricultural and Applied Economics, Annual Conference, coastal economics session.  
2016. Manuscript Reviewer, Journal of Economic Education.  
2016. Manuscript Reviewer. Letters in Spatial and Resource Sciences.

2015. Committee Member, South Atlantic Fisheries Management Council, Economics Advisory Committee, Charleston, SC.  
2015. Grant Reviewer, US Dept. Agriculture, National Institute of Food and Agriculture, AFRI grant program.  
2015. Grant Reviewer, US Geological Survey, National Institutes for Water Resources, National Competitive Grants Program.  
2015. Manuscript Reviewer. Marine Resource Economics.

2014. Technical Reviewer. North Carolina House Select Committee on the Use of Off-Road Vehicles on Cape Lookout National Seashore, Draft Off-road Vehicle Management Plan / Environmental Impact Statement.  
2014. Committee Member, South Atlantic Fisheries Management Council, Economics Advisory Committee, Charleston, SC.  
2014. Manuscript Reviewer. Ecological Economics.  
2014. Manuscript Reviewer. Journal of Environmental Management.  
2014. Manuscript Reviewer. Letters in Spatial and Resource Sciences.

2013. Manuscript Reviewer. Environmental and Resource Economics.  
2013. Committee Member, South Atlantic Fisheries Management Council, Economics Advisory Committee, Charleston, SC.

2012. Advisor. Advised USACE on function and use of statistical model to predict parking space utilization at public beach parking lots. US Army Corps of Engineers. Wilmington, NC. (pro bono)  
2012. Reviewer. Economic Impacts of the Deepwater Horizon Disaster in Florida. Florida Legislature, Office of Economic and Demographic Research.  
2012. Committee Member, South Atlantic Fisheries Management Council, Economics Advisory Committee, Charleston, SC.  
2012. Manuscript Reviewer. Marine Resource Economics.

2011. Reviewer. National Science Foundation. SBIR Grant Program.  
2011. Manuscript Reviewer. Letters in Spatial and Resource Sciences.  
2011. Manuscript Reviewer. Marine Resource Economics.  
2011. Reviewer. North Carolina Sea Grant minigrant program.

2010. Special issue co-editor (with Larry Cahoon). Coastal Management Journal.  
2010. Manuscript Reviewer. Aquaculture Economics and Management.  
2010. Manuscript Reviewer. Coastal Management Journal.  
2010. Manuscript Reviewer. Journal of Environmental Management.

2009. Manuscript Reviewer. Environmental Health Perspectives Journal.  
2009. Manuscript Reviewer. Aquaculture Economics and Management.

2008, 2007, 2006, 2005, 2004. Board Member. South Atlantic Fishery Management Council – Scientific and Statistical Advisory Committee.

2008. Manuscript Reviewer. Coastal Management Journal.  
2008. Manuscript Reviewer. Marine Resource Economics.

2008. Technical Reviewer: Socioeconomic Research and Monitoring Program for the Florida Keys National Marine Sanctuary. National Marine Sanctuary Program, National Oceanic and Atmospheric Administration, Washington, DC.

2007. Manuscript Reviewer. Living Shorelines Summit Proceedings. Virginia Institute of Marine Science.

2007. Program budget reviewer. North Carolina Sea Grant Program. Raleigh, NC.

2005. Manuscript Reviewer: Marine Resource Economics.  
 2005. Manuscript Reviewer: Natural Hazards Review.  
 2005. Manuscript Reviewer: Journal of Environmental Economics & Mgmt.  
 2005. Manuscript Reviewer: Agricultural and Resource Economics Review.

2004. Manuscript Reviewer: Marine Resource Economics journal.  
 2004. Manuscript Reviewer: Water Resources Research journal.  
 2004. Peer reviewer for chapter "On the Line: The Economic, Cultural and Social Costs of Longlining in the Pacific." For the Sea Turtle Restoration Project. Forest Knolls, CA.

2003. Manuscript Reviewer: Marine Resource Economics journal.

2000. Manuscript Reviewer. Journal of Business and Behavioral Sciences.

2000. Peer-reviewer for chapter "The Economics of Overexploitation and Extinction." in forthcoming book Marine Conservation Biology, Island Press.

2000, 1999. North Carolina Marine Fisheries Commission Advisory Committee member--Oyster Fishery Management Plan.  
 2000-1999. Manuscript Reviewer. Review of Agricultural Economics. American Agricultural Economics Association.  
 2000-1999. Manuscript Reviewer. Journal of Agricultural and Applied Economics. Southern Agricultural Economics Association.

1999. Manuscript Reviewer. American Agricultural Economics Association annual meeting. Nashville, TN.

University committee memberships, leadership positions, or administrative duties

2022 UNCW University Curriculum Committee

2020 UNCW Hearings Panel  
 2020 UNCW Blue Economy, survey design committee  
 2020 UNCW IEP survey design committee

2019 UNCW College of Arts and Sciences, Curriculum Review Committee

2017 UNCW Faculty Senate University Studies Committee  
 2017 UNCW Faculty Senate Research Committee  
 2017 UNCW Honors Council Advisory Committee  
 2017 UNCW Quarterly Research and Grants Committee  
 2017 UNCW Center for Teach Excellence (CTE) Advisory Committee

2016 UNCW Faculty Senate University Studies Committee  
 2016 UNCW Faculty Senate Research Committee  
 2016 UNCW Honors Council Advisory Committee  
 2016 UNCW Center for Teach Excellence (CTE) Advisory Committee  
 2016 UNCW Faculty Senate Hearings Panel



2015 UNCW Faculty Senate Hearings Panel  
2015 UNCW Center for Teach Excellence (CTE) Advisory Committee

2014. UNCW. International Programs Advisory Committee.  
2014. UNCW Center of Teaching Excellence (CTE) Advisory Committee.

2013. UNCW. Faculty Senate RTP Committee.  
2013. UNCW. International Programs Advisory Committee.  
2013. UNCW Center of Teaching Excellence (CTE) Advisory Committee.  
2013. UNCW Convocation Small-Group Faculty Leader

2012. UNCW. Faculty Senate RTP Committee.  
2012. UNCW. International Programs Advisory Committee.  
2012. UNCW Center of Teaching Excellence (CTE) Advisory Committee.  
2012. UNCW. Presenter. CTE Faculty Workshop.  
2012. UNCW Convocation Small-Group Faculty Leader.

2011. UNCW Provost Advisory Committee.  
2011. UNCW Faculty Senate Budget and Student Fee Committee.  
2011 (spring). UNCW University Studies Program Review Committee.  
2011. UNCW. International Programs Advisory Committee.  
2011. UNCW Center of Teaching Excellence (CTE), Committee on Faculty Mentoring and Peer Review.  
2011. UNCW Convocation Small-Group Faculty Leader.

2010. UNCW Chair, Vision 2020 Goal VII Committee.  
2010. UNCW Faculty Senate University Studies Committee.  
2010. UNCW Faculty Senate Budget Committee.  
2010. UNCW Faculty Professional Relations Committee.  
2010. UNCW Faculty Senate (dept delegate).

2009. UNCW Faculty Senate Budget Committee.  
2009. UNCW Faculty Professional Relations Committee.  
2009. UNCW Faculty Senate (dept delegate).  
2009. UNCW Center for Teaching Excellence Advisory Committee.  
2009. UNCW TIGER Grant Application Committee.  
2009. UNCW Convocation Small-Group Faculty Leader.

2008. Chair, UNCW Report on Impacts of Global Warming on Coastal NC.  
2008. UNCW New Faculty Orientation Presentation. August 2008.  
2008. UNCW University Budget & Fee comm.  
2008. UNCW UNC-Tomorrow comm.  
2008. UNCW Basic Studies comm.  
2008. UNCW Center Marine Science internal advisory comm.  
2008. UNCW Campus Sustainability comm.  
2008. UNCW Regional Health Access Summit planning comm.  
2008. UNCW Center for Teaching Excellence advisory comm.  
2008. UNCW Coastal and Ocean Policy Masters Program development committee.

2007. UNCW University Budget & Fee comm.  
2007. UNCW UNC-Tomorrow comm.  
2007. UNCW Basic Studies comm.  
2007. UNCW Center Marine Science internal advisory comm.  
2007. UNCW Campus Sustainability comm.  
2007. UNCW Regional Health Access Summit planning comm.

- 2007. UNCW Center for Teaching Excellence advisory comm.
- 2007. UNCW Coastal and Ocean Policy Masters Program development committee.
- 2007. UNCW New Faculty Orientation cmt. & presentation. Jacksonville, NC. August 14,
  
- 2006. UNCW Basic Studies curriculum review comm.
- 2006. UNCW Coastal and Ocean Policy Masters Program development comm.
- 2006. UNCW Center for Teaching Excellence advisory comm.
- 2006. UNCW Center Marine Science internal advisory comm.
- 2006. UNCW delegate to UNC-Coastal Science Institute advisory comm
  
- 2005. UNCW Coastal and Ocean Policy Masters Program development comm.
- 2005. UNCW Grant Policy Advisory Committee.
  
- 2004. UNCW Grant Policy Advisory Committee.
- 2004. UNCW Intl. Programs Travel Grant review committee.
- 2004. MS in Marine Science program review committee.
- 2004. MS in Environmental Studies program development committee.
  
- 2003. Chancellor's Faculty Advisory Committee
- 2003. International Travel Funds Review Committee
- 2003. UNCW Disaster Resistant Universities grant development committee.
  
- 2002-2001. UNCW International Travel Funds Review Committee.

College or school committee memberships, leadership positions, or administrative duties

- 2022. Co-chair. UNCW College of Arts and Sciences, Curriculum Committee.
  
- 2021. Co-chair. UNCW College of Arts and Sciences, Curriculum Committee.
  
- 2020. UNCW College of Arts and Sciences, Curriculum Committee.
  
- 2019. UNCW College of Arts and Sciences, Curriculum Committee.
  
- 2016. CSB Assurance of Learning Committee.
- 2016. CSB Summer Research Grant proposal review committee.
- 2016. CSB Chancellor's Teaching Award proposal review committee.
- 2016. CSB Business Week faculty host.
  
- 2015 (spring). CSB Faculty Liaison—Germany.
- 2015 (spring). CSB International Business committee.
  
- 2014. CSB Faculty Liaison—Germany.
- 2014. CSB International Business committee.
- 2014. CSB Chancellor's Teaching Award Nomination Committee.
  
- 2013. CSB Faculty Liaison—Germany.
- 2013. CSB International Business programs committee.
  
- 2012. CSB Faculty Liaison-- Germany.
- 2012. CSB International Business programs committee.
  
- 2011. CSB delegate to UNCW University Studies committee.
  
- 2010. CSB Faculty Senate delegate.

2010. CSB delegate to UNCW University Studies committee.

2009. CSB Faculty Senate delegate.  
2009. Beta Gamma Sigma induction ceremony faculty speaker

2008. Development of Research Grant Process Workshop and Training Materials for UNCW Center for Business and Economic Services.  
2008. Beta Gamma Sigma induction ceremony faculty speaker

2007. CSB Computer Competency Testing comm.  
2007. Beta Gamma Sigma induction ceremony faculty speaker  
2007. CSB Grade Appeal comm.

2006. CSB Strategy Committee.  
2006. CSB Computer Competency Testing comm.

2005. CSB Strategy Committee.

2004. CSB Strategy Committee.  
2004. CSB Technology Committee.  
2004. CSB Student Recognition Day--Investment Competition Award.  
2004. CSB IT Recruiting/Interview Committee.

2003. CSB Technology Committee.  
2003. CSB Mission/Vision Task Force. Fall 2003  
2003. CSB Research Committee.  
2003. CSB Technology Committee.  
2003. CSB Mission/Vision Task Force.

2002, Cameron School of Business "Business Week" organizing committee.  
2001-1997. Technology Committee  
2000-1998. Academic Research Committee  
1999-98. Search Committee, College Director of Information Technology  
1998-97. Development Team, Undergraduate Concentration in Envir. Business

Department committee memberships, leadership positions, or administrative duties

2022. Chair. Faculty position search committee.  
2022. Chair. EVS Justice, Equity, Diversity and Inclusion committee.  
2022. RPT Review Committee member.

2021. Chair. EVS Justice, Equity, Diversity and Inclusion committee.

2020. Faculty search chair -- Environmental Protection position.  
2020. EVS faculty annual report review committee.  
2020. RPT committee for Dr. Huili Hao.

2015. Search cmty for Health Econ faculty hire.  
2015. Search cmty for dept. admin. assist. hire.  
2015. Host for visiting German professor, Dr. Peter Schmidt.

2014. Chair of search cmty for Health Econ faculty hire.  
2014. Search cmty for Macroecon faculty hire.  
2014. Departmental Post Tenure Review committee.  
2014. Host for visiting German professor, Dr. Peter Schmidt.

2013. Departmental Post Tenure Review committee.

2012. Departmental Seminar Organizer. Visiting Professor, Dr. Peter Berck, University of California, Berkeley. February 21, 2012.

2010-2008, 2000-1999. Dept delegate to UNCW Faculty Senate.

2010-2009, 2007, 1999-1997. New econ. hire search cmty.

2007. New Econ Masters course development comm.

2007. Liaison for visiting faculty Dr. Alfred Endres, Hagen University, Germany.

2005, 2004, 2003, 2002, 2001, 2000, 1999. Faculty lead advisor. National Association for Business Economics – UNCW chapter. (Student organization.)

2008-2006. Dept. library representative.

### Community Service

2022. Wilmington Pet Waste Survey, City of Wilmington, Stormwater Services. (Project underway, survey design and data analysis, pro-bono).

2022. Survey and Economic Impact Study for Wilmington Brewers Association. (Project underway, pro-bono)

2020. Guest Speaker. Urbanek, Rachael, and Chris Dumas. "Coyotes in Urban Areas." Presentation to the Landfall neighborhood association, Wilmington, NC. March 17, 2020.

2018. Guest Speaker. "Achieving Fairness and Efficiency in Hunting and Fishing Access." UNC-Wilmington Seahawk Wildlife Society Meeting. (October 24, 2018)

2018. Guest Speaker. "The Future of Fish." 7th Annual NC Catch Summit--"Sustaining Local Fishing Communities." Southport, NC. (March 18, 2018)

2017. Guest Speaker. "Economic Impact of Inlet Proximity on Coastal Property Values." Carolina Beach Inlet Association. Carolina Beach, NC. (December 5, 2017)

2017. Guest Panelist. "The Potential Economic Impacts of Gen-X Water Pollution." Gen-X Science Community Panel Discussion. UNC-Wilmington. (October 19, 2017)

2017. Guest Speaker. "Coastal Mariculture Economics--Overview and the Future." North Carolina Coastal Conference. NC State University, Raleigh, NC. (April 5, 2017)

2016. Chess Club Advisor. Wrightsville Beach Elementary School, Wilmington, NC.

2016. AIG Program Advisory Committee. Wrightsville Beach Elementary School, Wilmington, NC.

2015. Chess Club Advisor. Wrightsville Beach Elementary School, Wilmington, NC.

2015. AIG Program Advisory Committee. Wrightsville Beach Elementary School, Wilmington, NC.

2014. Guest Speaker. Wrightsville Beach Elementary School, Teaching Workshop Organizer--"The Stock Market." Wilmington, NC. (April 2014)

2014. Guest Speaker. Wrightsville Beach Elementary School, Teaching Workshop Organizer--"Planes, Levers and Pulleys—How to Move Heavy Stuff," Wilmington, NC. (October 2014).

2013. Guest Speaker. Wrightsville Beach Elementary School, Teaching Workshop Organizer--"The Stock Market." Wilmington, NC. (April 2013)

2013. Guest Speaker. Wrightsville Beach Elementary School, Teaching Workshop Organizer--"Planes, Levers and Pulleys—How to Move Heavy Stuff," Wilmington, NC. (October 2013).

2012. Guest Speaker, NC Legislature Information Breakfast, Raleigh, NC. (June 20, 2012 - June 21, 2012).

2012. Guest Speaker, State Senator Thom Goolsby, Wilmington, NC. (May 8, 2012).

2012. Grants Committee Chair, Wrightsville Beach Elementary School, Wilmington, NC. (April 1, 2012 - Present).

2012. AIG Program Advisory Board Member, Wrightsville Beach Elementary School, Wilmington, NC. (September 1, 2012 - June 30, 2013).

2012. Teaching Workshop Organizer, Wrightsville Beach Elementary School, Wilmington, NC. (October 5, 2012 - October 26, 2012).

2006, 2005, 2004, 2003, 2002, 2001, 2000. Board member, Cape Fear River Watch. Regional non-profit group promoting water quality education and awareness.

2004, 2003, 2002, 2001. Treasurer, Cape Fear River Watch. \$100,000 annual budget.

2006, 2005, 2004, 2003, 2002, 2001, 2000. Board member, Cape Fear River Assembly. \$1.5 million annual budget.

2003, 2002, 2001, 2000, 1999, 1998. Member, Chemical Advisory Panel, Cape Fear Region. Regional environmental management council consisting of local regulatory officials, environmental groups, and chemical industry representatives.

2000, 1999. Regional Leadership Council of Lower Cape Fear member. Regional water quality management advisory committee organized by Wilmington Regional Office of N.C. Division Water Quality, N.C. Dept. of Environment of Natural Resources.

### **Media Contributions**

#### Magazine

US. News and World Report (April 2017)  
Business North Carolina. (July 2014).  
Business North Carolina. (February 2012).  
Coastwatch. (March 5, 2010).  
Triangle Business Journal. (February 3, 2010).

#### Newspaper

Cox North Carolina Publications (May 2017)  
Wilmington Star News (May 2017)  
Lumina News (Wrightsville Beach, NC). (January 2014).  
Charlotte Observer. (June 1, 2010).  
Wilmington Star News. (May 26, 2010).

#### Radio

WMYT Craig Galbraith talk show. (Sept. 10, 2014)  
WAAV Rhonda Bellamy talk show. (December 4, 2009).

#### Wire Service

Associated Press interview. (August 2011).

### **Relevant Certifications**

Completion Certificate (8/22/2003 and renewals). Human Participant Protection Education for Research Teams. National Institutes of Health.