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Freshwater Institute
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EDUCATION

1994 M.S., Aquaculture/Water Quality Management, Auburn University, Auburn, AL
1987 B.S., Fisheries Management, Delaware State College, Dover, DE

PROFESSIONAL EXPERIENCE

2006 – Present Senior Environmental Associate. The Conservation Fund's Freshwater Institute, Shepherdstown, WV
1996 – 2005 Research Associate. The Conservation Fund's Freshwater Institute, Shepherdstown, WV
1994 – 1995 Analytical Chemistry Contractor. National Biological Service, National Fisheries Research and Development Laboratory, Wellsboro, PA
1990 – 1994 Research Associate. Auburn University, Department of Fisheries and Allied Aquacultures, Auburn, AL
1988 – 1990 Graduate Research Assistant. Auburn University, Dept. of Fisheries and Allied Aquacultures, Auburn, AL
1987 – 1988 Field Biologist. Delmarva Ecological Laboratory, Inc., Middletown, DE

NATURE OF WORK EXPERIENCE

Watershed Management:

Application of green infrastructure principles to watershed management. Chesapeake Bay Restoration, stakeholder processes, prioritization, data analysis, watershed analysis, and planning.

Acid Mine Drainage:

Development of limestone-based acid mine drainage treatment technologies. Program development, coordination of field-scale tests and installation of full-scale treatment units.

Geographical Information Systems:

Geospatial analysis, modeling, and mapping for nutrient management, land conservation, and watershed management.

Wetlands:

Construction and maintenance of free water surface wetlands; collection and analysis of water and sediment samples from constructed wetlands. Plant selection, propagation and design of bioretention wetlands.

Analytical Chemistry:

Laboratory analysis of sediments and waters using standard methods.

Aquaculture:

Management of intensive recirculating rainbow trout and arctic charr culture systems; intensive and extensive culture of striped bass and their hybrids; intensive catfish culture; extensive culture of largemouth bass, crayfish and various forage species; artificial propagation of striped bass and their hybrids.

PROFESSIONAL MEMBERSHIPS

American Water Resources Association
Society for Conservation GIS