

LEROY WALSTON

Ecological and Geographical Sciences Section
Environmental Science Division
Argonne National Laboratory

Education:

M.S. Eastern Illinois University, Biology, 2005
B.S. Southern Illinois University, Zoology, 2002

Professional Experience:

2007-Present Assistant Ecologist
Environmental Science Division
Argonne National Laboratory

Participated in the analysis of ecological and environmental data in support of the National Environmental Policy Act (NEPA) and the Comprehensive Environmental Restoration and Cleanup Liability Act (CERCLA). Work involved (1) GIS and remote sensing applications to understand broad-scale impacts of energy development on aquatic and terrestrial resources; (2) studies of sensitive animal populations; and (3) impacts of hydropower operations to aquatic ecosystems. Also involved in the characterization and analysis of environmental data at U.S. Department of Energy (DOE) facilities and other federal installations through the development of web-based GIS approaches and evaluations of real-time data collection methods.

Summary of Previous Experience:

2005-2007 Research Associate, U.S. Environmental Protection Agency,
Chicago, IL

Used GIS, statistical software, and geostatistics to analyze and characterize contaminated sites in support of CERCLA. Provided technical guidance and decision support at various remedial phases, primarily those pertaining to Remediation Investigations and Feasibility Studies (RI/FS). Participated in the collection of environmental data using X-Ray Fluorescence (XRF) and other real-time technologies.

2003-2005 Research/Teaching Assistant, Eastern Illinois University,
Charleston, IL

Conducted field research examining the effects of introduced / invasive species on native wildlife communities. Instructed undergraduate laboratories in the biological sciences, including Animal Diversity, Ecology, Herpetology, and Vertebrate Natural History.

Research Interests:

Effects of anthropogenic perturbations in aquatic ecosystems
Herpetology
Landscape ecology
Predator-prey relationships
Statistical analysis

Professional Activities:

Reviewer for *Ecography*, *Herpetologica*, and *Journal of Herpetology*
Member of the Ecological Society of America (ESA), Society for the Study of Amphibians and Reptiles (SSAR), Partners in Amphibian and Reptile Conservation (PARC), and Sigma Xi – The Scientific Research Society

Publications:

Author or co-author of 10+ journals, reports, and conference publications and presentations.