

Christopher G. Crawford

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Experience:

- 8/2016 – Present **City Research Scientist IV – NYC DOHMH, Long Island City, NY –** Responsibilities include provide direction scientific and strategic direction for compliance and data analysis unit of the Building Water Supply Oversight program, provide technical expertise in mobilizing scientific and data resource to address Legionella cluster investigations, provides supervisory oversight of data and compliance staff, perform technical data analysis and review of compliance and research data, perform workflow analysis and adjusts workflow as necessary,
- 10/08 - 8/2016 **Water Resource Specialist- Cattaraugus County Health Department, Olean, NY-** Responsibilities include regulatory compliance of public water supplies, development of asset management program including online GIS inventory applications, training and policy development, internal GIS analysis and capacity, technology skill transfer, statistical analyses, program development and policy standardization.
- 6/06- 10/08 **Supervising Senior Planner- Cattaraugus County EDP & T Department, Little Valley, NY-** Responsibilities included development of water & sewer infrastructure geodatabase, zoning geodatabase, municipal outreach program initiation, review of local referrals, performing county LUCA Process for 2010 census, supervision of county planning staff, providing policy, economic and environmental analyses for customers, internal strategic planning and capacity building.
- 6/05 6/06- **Environmental Specialist III-TMDL (Total Maximum Daily Load) Coordinator, Department Planning & Natural Resources, Frederiksted, VI-** Responsibilities include development of institutional GIS, environmental project management, liase and coordinate with other internal divisions and outside organizations to decrease pollutant loadings to coastal waters, serve as intergovernmental agency chair for utilization of Computer Aided Mapping for Environmental Operations (CAMEO), spatial database development, water quality program planning development in conjunction with federal EPA officials, committee member of territorial GIS user group.
- 12/04- 3/06 **Research Coordinator- The Nature Conservancy- Eastern Caribbean Office, Christiansted, VI-** Responsibilities include providing technical scientific, GIS and management support in development of the region's ecoregional plan and area conservation plans throughout the region and development of a resource user's monitoring protocol for the East End Marine Park on St. Croix.
- 8/03- 6/04 **Visiting Assistant Professor, State University of New York at Buffalo, Urban and Regional Planning Department, Buffalo, NY-** Responsibilities include designing, implementing, and evaluating of curriculum for PD 469/569, "Introduction to Geographic Information Systems," PD588, "Science for Environmental Planning," PD 568, "Environmental Policy & Planning," PD 356, "Computing for Environmental Planning," serving as reader and providing comment and direction on numerous Master's theses, liasing with local municipalities to aid in development of geographic information system infrastructure (GIS) infrastructure and performing research in the use of GIS to aid in environmental decision support.
- 3/01- 2/03 **Graduate Assistant, Univ. of Massachusetts- Boston, Environmental, Coastal, and Oceans Sciences Program/Urban Harbors Institute, Boston, MA-** Responsibilities included serving as team lead for phase I of the Boston Harbor Watershed Strategy Project, spatial database design and object modeling, collecting and assembling spatial data for water resources in over 50 municipal, non-profit and government agencies, designing and creating an ArcView extension to explore and analyze water resources data and information, facilitating and organizing community meetings, performing advanced GIS analysis, aiding in the development of natural resource inventories, providing advanced technical and GIS support to other Institute staff.

- 2/02 - 10/02 **Adjunct Professor, Cape Cod Community College, Barnstable, MA** - Responsibilities included designing, implementing, and evaluating of curriculum for ENV 164, "Geographic Information Systems I", aiding in the design and development of the GIS certificate program curriculum, substitute instructing for GEO 104, "Geography : Culture and Environment".
- 3/00-12/02 **GIS Coordinator, Waquoit Bay National Estuarine Research Reserve, Waquoit, MA** — Responsibilities included formal and informal GIS training of staff, assembling of spatial data into an institutional GIS data library and creating the accompanying metadata catalog, creating and serving as first chair for the Upper Cape Municipal GIS user group, creating standard operating procedures for use and management of the Reserve's GIS system, providing training to municipal employees in the use and implementation of GIS, data editing, updating and maintenance, performing spatial analysis for coastal planning, serving as chair for internal technology committee.
- 1/98-12/00 **Graduate Assistant, Univ. of Massachusetts-Boston, Environmental, Coastal, and Ocean, Sciences Program, Boston, MA**- Responsibilities included supervising of Geographic Information Sciences lab, providing basic support service for lab users, digitizing in ArcInfo, designing and implementing lab exercises and lesson plans for introductory GIS courses.
- 3/99-9/99 **Consultant for Police Foundation for the New England Police Consortium Project, Southern NH & Eastern MA** - Responsibilities included technical GIS training and computer support for 15 police departments, installing hardware and software, serving as technical liaison for the project to application developers, testing and debugging custom designed project applications, technical reporting, designing and implementing lessons and exercises for GIS training in 15 police departments, writing a basic manual for use of project designed application.
- 5/98-9/98 **Research Intern, Battelle Memorial Institute, Duxbury MA** — Responsibilities included designing and developing an ArcView extension and Visual Basic application, using Avenue, GS Scripter and Visual Basic scripting languages and Oracle SQL, to simplify data analysis and representation of Boston Harbor water quality monitoring data in such software packages as Surfer, ArcView, Microsoft Access and Excel.
- 2/97-1/98 **Environmental Scientist, Environmental Career Organization Associate placed with the U.S. Dept. Of Energy's West Valley Demonstration Project, West Valley, NY**- Responsibilities included oversight of operating contractor's environmental monitoring and regulatory compliance program, scheduling and conducting environmental audits, review and comment of regulatory permits and various quarterly, monthly, and annual reports, and legal/regulatory research.
- 9/95-1/97 **Graduate Assistant, SUNY at Buffalo, School of Architecture and Planning, Buffalo, NY**- Responsibilities included conducting research on waste management, emergency planning, site remediation and other environmental issues, reviewing and commenting on draft journal articles and books, instructing lab sections in computer modeling/methods, and performing administrative duties.
- 1/94-8/95 **Assistant Physical Planner, Ministry of Lands, Survey and Natural Resources in cooperation with the U.S. Peace Corps, Nuku'alofa, Tonga** — Responsibilities included writing position papers regarding global climate change and biodiversity conventions to H.M.'s Cabinet, project proposal writing, budgeting, serving as junior liaison officer to the Prime Minister's Office regarding strategic planning program, coordinating computerization of land management data with various government and quasi-government agencies, creating office library, collecting and digitizing land use and land tenure data, surveying local businesses with regard to town

planning issues, and participating in ministerial meetings regarding land management issues.

1/91 - **Legislative Assistant for State Senator Owen H. Johnson, Chair of Environmental Conservation Committee, Senate Student Programs, Albany, New York**- Responsibilities included researching potential legislative issues, meeting with interest groups, answering constituent letters, briefing Senator Johnson, performing legal research, data entry and processing, attending and participating in staff meetings, serving as President for student Model Legislative session.

Education:

1/98-12/03 **Doctor of Philosophy, Univ. of Massachusetts - Boston, Environmental, Coastal, Oceanographic Science Program, Boston, MA**- Culminating research involved both qualitative and quantitative assessments of scale issues surrounding the development of environmental knowledge through scientific and geographic observations and modeling, with a focus on water resources. Past course work included work in physical modeling, environmental policy, Geographic Information Science, remote sensing, physical sciences, and critical and creative thinking. Grade Point Average: 3.8

8/95-12/96 **Master of Urban Planning, SUNY at Buffalo, School of Architecture and Planning, Buffalo, New York**- Terminal research conducted with regard to the development of land use patterns in the Kingdom of Tonga, in light of both internal and external socio-economic forcing and resultant institutional development. Relevant course work included statistics, economics, future studies, conflict negotiation, theory, and computer applications. Grade Point Average= 3.8

8/91 - 5/92 **Juris Doctor Candidate, SUNY at Buffalo - School of Law, Buffalo, New York**- Relevant course work included property law, torts, contract law, labor law, legal research and writing, and criminal law.

8/87 - 5/91 **Bachelor of Science - Environmental Science, SUNY College of Environmental Science and Forestry /SUNY College at Cortland, Syracuse, New York**- Relevant course work included limnology, calculus, organic chemistry, physics, botany, ecology, geology, environmental science, government and environment, research and writing for environmental professionals, Great Lakes issues, conflict negotiation, land use law. Final Grade Point Average= 3.8

Publications & Research:

Crawford, C. G., "Tongan Land Management: Putting the Brakes on the Global Economy", Pacific Carfax Publishing Company, p. 93-104, 36:1, June, 2001.

Crawford, C. G., Wiggin, J., Lefebvre, C., Hellin, D., Smith, J., Olsen, C., Chen, R, "Implementing the 4M Approach to Watershed Management in the Boston Harbor Watershed : Understanding the Scale-Dependent Integration of Watershed Processes, Information and Institutions, 2003.

Crawford, C. G. " Exploring Issues of Scale in the Representation of Spatially Heterogeneous Land Use/Land Cover Derived Boundary Conditions in the Modeling of Public Drinking Supply Wells in Massachusetts.", 2003.

Crawford, C. G. "On the Use of Different Scale Land Use/Land Cover Data in the Siting of a Public Drinking Supply Well in Massachusetts, Cost vs. Accuracy", 2006"

Reports:

Falmouth Coastal Planning Commission- Report to Town of Falmouth Board of Selectman

Urban Harbors Institute, UMASS — Boston ECOS Dept. – "Boston Harbor Basinwide Strategic Plan for Watershed Management: Integrating People, Processes, and Information", A Report to the Massachusetts Watershed Initiative Boston Harbor Team, 2003.

References: Available upon request