

Kevin L. Cronk, MS

Professional Interests	<ol style="list-style-type: none">1. <u>Aquatic Ecology</u>: aquatic biology, water chemistry, and hydrology2. <u>Geographical Information System (GIS)</u>: environmental spatial analysis3. <u>International</u>: Hispanic and Pacific island cultures
Professional Experience	<p>2003 - present <i>Tip of the Mitt Watershed Council</i> <i>Petoskey, MI</i> Monitoring and Research Coordinator → Coordinates Watershed Council and volunteer water quality monitoring programs. Performs water quality and aquatic ecosystem research on a contract basis for lake associations and others. Coordinates and implements watershed management projects. Performs GIS mapping and spatial analysis for a variety of projects.</p> <p>2001 - 2003 <i>Coastal Management Program</i> <i>Pago Pago, AS</i> Environmental GIS Specialist → Developed a sustainable GIS program by building local capacity; managing staff members; organizing data; developing data layers; and rebuilding the land-use database. Facilitated local GIS user group sessions and collaborated to create a spatial data infrastructure. Engaged in outreach activities in local schools and presented at regional conferences. Additionally designed and implemented a comparative stream system research project.</p> <p>2001 <i>University of Michigan</i> <i>Ann Arbor, MI</i> Stream Ecology Intern: Muskegon River → Applied knowledge of aquatic ecology, hydrology, and GIS to advance an integrated modeling project for the Muskegon River. Reinforced taxonomic identification skills and learned additional field sampling methods during biological data collection. Improved understanding of stream hydrology and learned to use doppler radar and bridge meter systems to measure flow. Augmented GIS skills by using latest tools available for spatial analysis.</p> <p>2000 <i>University of Michigan</i> <i>Ann Arbor, MI</i> Graduate Student Instructor: Aquatic Ecology → Relied upon extensive aquatic background, previous teaching experience and problem-solving skills to teach 1-2 laboratory sections per week for an introductory course in aquatic ecology. Instructed and guided students in laboratory experiments, taxonomic identification sessions, and field trips in order to convey the importance and relevance of concepts presented in lecture.</p>

**Professional
Experience
(continued)**

1996 - 2001

Washtenaw Community College

Ann Arbor, MI

Language Laboratory Student Advisor

- Provided professional tutoring services to language students and assisted students and staff with lab equipment to facilitate learning and improve teaching methods. Responsible for the utilization and maintenance of the laboratory equipment, including the preparation of laboratory manuals and instructional tutorials. Instructed numerous Spanish classes to adult students as a substitute teacher.

1998 - 2001

GLERL, NOAA

Ann Arbor, MI

GIS Technician: Great Lakes Ice Cover

- Expertise with GIS applied to produce and spatially analyze digital ice-cover maps for the Great Lakes Ice Cover Data Rescue Project using ARC/INFO and ArcView. Performed analyses and co-authored reports of inter-decadal ice cover trends on the Great Lakes. Developed numerous posters for display at meetings and conferences. Acquired considerable knowledge of AML and Avenue programming.

2000

University of Michigan

Ann Arbor, MI

Web Master / GIS Assistant

- Maintained and updated the Web page for the GIS Laboratory at the University of Michigan. Converted considerable amount of GIS data into a suitable format for downloading and developed web pages for data access. Furthermore, applied GIS skills to assist research scientists, performing tasks such as geo-rectification and on-screen digitizing of aerial photographs.

1998

Institute for Fisheries Research

Ann Arbor, MI

Research Assistant: Aquatic Resources

- Assisted research biologist with MARIS (Multi-State Aquatic Resources Information System) database compilation. Worked extensively with Microsoft Excel to organize datasets. Digitized and edited numerous depth contour lake maps and, in addition, developed digital elevation models for volume calculations. Gained thorough knowledge of ARC/INFO and improved existing skills with ArcView.

1991 - 1993

US Peace Corps

Morazan, Honduras

Aquaculture Extensionist

- Promoted aquaculture as a means of sustainable development and provided technical assistance for up to 15 projects simultaneously (including 3 group projects). Coordinated and carried out outreach activities including formal lectures and field trips designed to train farmers in the technical aspects of aquaculture. Administered two USAID projects for education and pond system expansion. Additionally, promoted watershed management and helped establish a local watershed protection organization: AECOPIJOL (Asociación Ecológica de Pico Pijól).

Education & Training	1995 – 2002	The University of Michigan	Ann Arbor, MI
	Masters of Science – <i>Aquatic Ecology</i>		
	1984 - 1989	Michigan State University	East Lansing, MI
	Bachelor of Arts – <i>International Studies</i>		
	1990 - 2001	Washtenaw Community College	Ann Arbor, MI
	Professional Development – <i>Computers and Life Sciences</i>		
Presentations	<ul style="list-style-type: none"> • <i>Protecting Water Quality Using a Priority Parcel Process</i> Geotools 2005, Myrtle Beach, South Carolina • <i>Land Information System In A Communal Land Society</i> Geotools 2003, Charleston, South Carolina • <i>Spatial Data Infrastructure in American Samoa</i> 2002 Fiji GIS User Conference, Suva, Fiji • <i>GIS & Coastal Zone Management</i> 2002 All Islands Coastal Zone Management Meeting, Guam 		
Publications	<ul style="list-style-type: none"> • Cronk, K. L. <i>Long-term changes in macroinvertebrate populations and water quality in four urbanized streams of Southeast Michigan</i>. Masters Thesis, University of Michigan, Ann Arbor, MI (2002). • Assel, R. A., K. Cronk, and D. C. Norton. <i>Recent trends in Laurentian Great Lakes ice cover</i>. Climatic Change 57:185-204 (2003). • Assel, R. A., D. C. Norton, and K. Cronk. <i>A Great Lakes ice cover digital data set for winters 1973-2000</i>. NOAA Technical Memorandum GLERL-121, Great Lakes Environmental Research Laboratory, Ann Arbor, MI, 45 pp. (2002). 		
Volunteer Experience	1998-2001	<u>Huron River Watershed Council</u> , Ann Arbor, MI. Provided expertise in aquatic insect identification to stream monitoring volunteers.	
	1991-1993	<u>United States Peace Corps</u> , Morazan, Yoro, Honduras. Volunteer in aquaculture extension and watershed protection.	
	1998-1999	<u>International Interactions</u> , East Lansing, MI. One on one work involving the acclimation of international students to the U.S. environment.	
Languages	SPANISH	✂ Fluent in conversational and written Spanish.	
	RUSSIAN	✂ Major field of study at Michigan State University.	