

Peter M. Troffe, MSc.
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Education:

Master of Science

2000: University of British Columbia, Vancouver, B.C.

Department of Zoology and Fisheries Centre – Department of Environment: Thesis: Fluvial Mountain Whitefish (*Prosopium williamsoni*) in the Upper Fraser River: A morphological, behavioural and genetic comparison of foraging forms.

Bachelor of Science

1994: University of British Columbia, Vancouver, B.C.

Ecology major with emphasis directed at fisheries, fish biology and population ecology.

Professional Experience:

2001- 2003 Habitat Research Biologist, Department of Fisheries and Oceans, West Vancouver, B.C.

Environmental Sciences Strategic Research Fund and Science Branch funded ocean based research comparing habitat impacts of commercial fishing gear to inshore marine habitats on the central coast of British Columbia. Remote sensing, underwater video, detailed benthic impact and susceptibility analysis, bycatch analysis and comparisons. Management of a large dataset, publication of peer reviewed research and management of a diverse team of DFO employees, contractors and research vessels.

April 2000 - ongoing Proprietor, Fisheries Consulting Vancouver, B.C.

Contracts tendered and project participation:

BC Fisheries - UBC Research and Development Branch

Census of Marine Life pilot project, Pacific Ocean Salmon Tracking (POST) involved successful implanting of acoustic tags into out-migrating Keogh River steelhead smolts to estimate early ocean survival and movements.

Living Gene Bank and Keogh Watershed Restoration and Nutrients addition Project. Population ecology and age validation of steelhead and native salmonids during nutrient addition experiments. Living Gene Bank project involved the captive breeding of wild steelhead smolts with subsequent release of progeny to foster poor early ocean survival.

Atlantic Salmon Workshop, Peter Wall Institute of Advanced Studies, University of British Columbia (March 15-16, 2001). Assembled, academic, governmental, industry, First Nations and concerned associations for a workshop focused on the potential ecological interaction between farmed, and wild salmonids in British Columbia
Heritage Canada - Gwaii Haanas National Park Reserve.

Haida Gwaii historic marine fish biodiversity study. A review of all known formal academic marine and anadromous fish collections. A 256 species database and report includes data and records from: Royal BC Museum, Canadian Museum of Nature, Royal Ontario Museum, University of British Columbia, University of Florida, University of Washington, Los Angeles County Museum, California Academy of Sciences and the Smithsonian Institute Natural History section.

BC Hydro - Linear Habitat Mapping, Coquitlam & Bridge Rivers.

Water Use and Planning Program. Three dimensional surveying and computer modeling of critical salmonid habitat under variable water flow conditions.

Adult and juvenile salmonid population enumeration. Telemetry, rotary screw traps, instream observations – Coquitlam and Cheackamus rivers, B.C.

August 1998- April 2000 Curator of Fishes, Royal British Columbia Museum, Victoria, B.C.

Curator of provincial fish collection. Duties included: writing peer reviewed publications relating to the fish fauna of British Columbia and Pacific Canada and curation of the RBCM 13,000 lot ichthyology collection. Public programs and lectures, media relations (television and radio), First Nations relations, staff and student supervision, technical presentations, database, GIS and internet applications.

Involved with Kwāday Dān Ts'lnchi discovery from a glacier in British Columbia as project Ichthyologist. Identification of salmonid remains associated with 550 year old frozen human remains through scale morphology and molecular mtDNA of frozen tissue. Cooperated with a diverse team of international scientists, First Nations and ethical committees.

1998 Research Associate, U.B.C. Dept. of Zoology, Vancouver, B.C.

Research conducted in accordance with DR. E.B. Taylor

A population and evolutionary survey of kokanee salmon, *Oncorhynchus nerka*, in Okanagan Lake, B.C. This study involved the use of two molecular genetic and morphometric techniques to identify shore spawning and river spawning kokanee salmon.

Remote Assessment field research at Kemess Mine site (Royal Oak Mines), Tatlatui, B.C.

1995 - 1998 Research Associate, U.B.C. Dept. of Zoology, Vancouver, B.C.

Managed research conducted in accordance with Dr. J.D. McPhail (U.B.C.) and Canadian Department of Environment. The study outlined potential indicator fish species for use in assessment monitoring effluent effects in the upper Fraser River B.C. Radio telemetry, rare earth analysis (laser ablation), community inventory, molecular genetics, salmonid ecology.

1996 - 1998 Laboratory Instructor, U.B.C. Dept. of Zoology, Vancouver, B.C.

This fourth year undergraduate course focuses on taxonomy and evolutionary ecology of fish, with an emphasis on the marine and freshwater fishes of British Columbia. First Class instructor standing, three years running.

1993-1996 Biological Technician, U.B.C. Fish Museum, Vancouver, B.C.

Province wide collections of research specimens for the U.B.C. Ichthyological museum. Collection included specimens from Coastal British Columbia and all major river system in B.C.

1991-1993 Biological Technician, U.B.C. Dept. of Zoology, Vancouver, B.C.

Downstream coho and steelhead salmon survival, Keogh River, Vancouver Island, B.C.
High altitude brook char population dynamics, Sierra Nevada range, Bishop, California
Invertebrate population dynamics in fishless lakes, Shirley lake, B.C.

Associations and Certification:

Member of the American Fisheries Society
Canadian fellow of the Gilbert Ichthyological Society
Member of Northwest Scientific Association
Backpack electrofisher certified (Crew chief standing)
Swift Water Rescue certified
Survival First Aid certificate
Radioisotope / Hazardous materials certification
Experienced large river jet boater
Experienced river snorkel surveyor
Open water Scuba (PADI) certified
Ability to work safely in remote locations
Excellent working knowledge of coastal BC

Professional References:

Dr. Colin Levings, Research Scientist, Department of Fisheries and Oceans,
West Vancouver Laboratory,
4160 Marine Drive, West Vancouver, BC, V7V-1N6
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Mr. James Cosgrove, Manager of Natural History, Royal British Columbia Museum
675 Belleville Street, Victoria. B.C. Canada V8W-9W2
phone: (250) 356-5008
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Dr. J.D. McPhail, Professor, Department of Zoology, University of British Columbia
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