

Patrick L. Luke

Email: PatrickL@yakama.com



EDUCATION

Oregon State University (OSU), Corvallis, Oregon

Major: Fisheries and Wildlife Science Bachelors Degree Awarded: 2007

Blue Mountain Community College, Pendleton, Oregon

Major: Biology/Associate of Arts Oregon Transfer Degree Awarded: 2003

WORK EXPERIENCE

Elected delegate of the **Yakama Nation Tribal Council**.

May 2015 – Current

I serve on the Fish and Wildlife, Hanford Radioactive Waste, Overall Economic Development and Veterans committees.

Currently Vice-Chairman with the Columbia River Inter-Tribal Fish Commission and Tribal Treaty Fisherman

Yakama Nation Department of Natural Resources, Fisheries Program

June 2007 – 2015

- Built a new program scope of work, budgets to restore Pacific Lamprey (*Esthospheus tridentata*) for the Confederated Tribes & Bands of the Yakama Nation. Assess status, review historical distribution and abundance, biology/ecology, limiting factors, habitat, develop restoration plans, implement-monitor plans, and research in Central and South-central Washington. Restoration ongoing.

Klickitat Fish Project

June 2007 – June 2008

- Klickitat Salmon (*Oncorhynchus* sp.) Hatchery operations - Responsible for understanding production protocol, monitoring all aspects of fish culturing Pacific Salmon. Collection of adults Chinook and Coho Salmon hand spawn, acclimate eggs vertical incubators, once eggs hatched released into troughs for rearing, then split to prevent overcrowding when fish reached size transferred to raceways. From raceways transferred into release ponds then released to river. Figure amounts and administering treatments to prevent bacterial or fungus infections, understand immune systems fishes health, and understand pathogens in hatchery fishes, metabolism, used weekly growth projections, weekly feed sheets. Compiling and submitting paper work each day and weekly logs. Daily computer use to write reports, various spreadsheets, record keeping, and data organization. In charge of daily tasks and pulling biweekly standby on grounds, know water alarm of the entire hatchery system, maintenance of facility, vehicles, snowmobile, all terrain quad runner, and running tractor feeder. Other duties as required at the Klickitat Salmon Hatchery.

Fisheries Technician II - Confederated Tribes of the Umatilla Indian Reservation Department of Fish & Wildlife

- Internship during school winter/spring breaks: Department of Natural Resources Fisheries; Team building, management techniques, safety, snorkel surveys identified mussel beds, lamprey monitoring, cleaned woody debris from hatchery inlet/outlets, maintained screw traps data collections and input into software.

Columbia River Inter-Tribal Fish Commission (CRITFC)

June to June: 2003 - 2004

Umatilla Indian Reservation Natural Resources Department, Pendleton Oregon

- Formulated Research project, time frame, budgets, implementation, and implementation.
- Analyzed data results to CRITFC Commission Sessions
- Oral paper & poster presentation at the Oregon American Fisheries Conference (OAFS) undergraduate division winter 2004, 2005, 2006, 2007, and 2011
- Habitat surveys and Restoration projects, Artificial Reproduction and Natural Production, Wildlife Capturing and Immobilization projects (Buffalo, elk, deer, and cougar)
- Fish trap-n-haul program spring Chinook brood stock, spawning surveys and creel work
- McNary Dam on the Columbia River assisted Sturgeon Biologist spawn several males and females after inducing with reproduction hormones to enhance ovulation and milting
- Pacific Lamprey Project monitoring, collection brood stock, coordinated lamprey harvest crew in the Willamette Falls in Oregon City for tribal subsistence
- Fish salvage operation projects, electro shocking both fluvial and benthic species composition of fishes worked up data then transfer to safer habitat away from irrigated farmlands in three different river systems in NE Oregon, logged data into software

Yakama Nation Fisheries Resource Management internship, Fall/spring tribal fishermen monitor Zone 6.

- United State Fish and Wildlife Service Spring Creek ~ spawning fall Chinook tulees

Commercial Fisherman North-Northeast Pacific Ocean, Bering Sea Alaska	May 1988 – November 1999
Fleetwood Trailer Company Pendleton Oregon	November 1987 - April 1988
Pendleton Flour Mills Pendleton Oregon	November 1984 – May 1987
U.S. Forestry Service Tucannon/Wanaha Wilderness Pomeroy, Washington	June 1983 – September 1984
United State Marine Corp (Honorable Discharge – DD-214)	June 1981 – June 1984
Marine Barracks Naval Air Station Whidbey Island WA. 53 Area – Weapons Platoon, Delta, 1 st battalion, 4 th Marine Regiment, Camp Pendleton California, Beirut, Lebanon Era.	

RESEARCH

Fisheries & Wildlife & Oceanography Departments, Oregon State University. June 2007. Senior thesis: *American shad (Alosa sapidissima) in the Pacific Northwest: contrast with parent stocks from the East Coast USA*. Genetics study, (abstract available upon request).

OSU Hatfield Marine Science Center June-December 2006. *Temporal patterns of late stage recruitment of larval ghost shrimp (Neoptypaea californiensis) in Yaquina Estuary using a standard and continuous sampling system* (abstract available upon request).

OSU Hatfield Marine Science Center, Research Experience for Undergraduate (REU) National Science Foundation June - August 2006: *Temporal patterns of larval ghost shrimp (Neotryaea californiensis) in Yaquina Estuary using a continuous plankton sampling system* (abstract available upon request).

Columbia River Inter-Tribal Fish Commission, June – June 2003-2005 *Survey For Presence Of The Invasive Species (Potamopygus Antipodarum), In The Umatilla, Walla Walla, John Day, And Grand Ronde River Systems* (abstract available upon request).

Graduate Research Assistant, Department of Fisheries and Wildlife, OSU Sept.-June 2004-2007 funded by the Native American in Marine & Space Science; *Responses of a Threatened Cutthroat Trout to an Exotic Invading Charr: Ecological Implications for Growth, Stress, and Behavior*.