

STEVEN L. WHITLOCK

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EDUCATION

2011-2013	M.S. Natural Resources (Fisheries), University of Idaho Graduate Academic Certificate: Statistics GPA 3.93 Advisor: Dr. Michael Quist
2007-2010	B.S. Biology, Northland College <i>Magna cum laude</i> GPA: overall 3.89; in major 3.98

EMPLOYMENT

2014-Present	Faculty Research Assistant Oregon State University (OSU) Corvallis, Oregon
2014	Assistant Biometrician Oregon Department of Fish and Wildlife (ODFW) Salem, Oregon
2011-2013	Graduate Research Assistant Idaho Cooperative Fish and Wildlife Research Unit University of Idaho (UI) Moscow, Idaho
2010-2011	Fisheries Biological Technician (GS-5) Bureau of Land Management Aquatic Riparian Effectiveness Monitoring Program Corvallis, Oregon
2009	Ichthyology Laboratory and Teaching Assistant Northland College Biology Department, Ashland, Wisconsin
2009	Graduate Student Research Aide Jared Myers Ph.D Candidate Michigan State University Thunder Bay, Ontario
2007-2010	Student Biological Aide U.S. Geological Survey Lake Superior Biological Station, Ashland, Wisconsin

RESEARCH EXPERIENCE

OSU: *Lamprey ecology in the Willamette Basin*

- Design and implement research projects that further Pacific lamprey conservation
- Conduct adult lamprey spawning surveys, larval electrofishing surveys, capture recapture studies

ODFW: *Optimizing angler catch rates in put-and-take rainbow trout fisheries in Oregon*

- Built a statistical model that uses lake morphometry, fish community composition, and angler surveys to prescribe rainbow trout stocking strategies in put-and-take fisheries across Oregon

UI (Thesis): *Kokanee spawning ecology and recruitment response to water level management in Lake Pend Oreille, Idaho*

- Compared genetic and phenotypic characteristics of segregated breeding groups of stream- and shore-spawning kokanee
- Evaluated a kokanee egg-to-fry survival estimator using sensitivity analysis and simulation
- Examined the effect of water level regulation and hatchery supplementation on kokanee recruitment using a stock recruitment model
- Conducted two field incubation studies and one laboratory incubation experiment
- Conducted fish aging and otolith microstructure analysis

FIELD EXPERIENCE

- Small-scale fish sampling techniques including snorkel surveys, beach seines, and backpack electrofishing
- Large-scale fish sampling techniques, including gill netting, boat electrofishing, and midwater trawling
- Stream habitat assessment and channel mapping using laser surveying equipment

QUANTITATIVE SKILLS

- Regression modeling with fixed and random effects, generalized linear models, computer-intensive methods, experimental design, sample survey methods, and nonparametric statistics
- Fisheries indices and stock assessment methods
- Adept at programming and statistical analysis in R and SAS
- Experience with Microsoft Excel, Microsoft Access, and ArcMap

PROFESSIONAL AFFILIATIONS

2009-present	American Fisheries Society
2013-present	North American Lake Management Society
2013-present	Ecological Society of America

AWARDS AND HONORS

2014	Runner-Up Best Student Paper , Oregon Chapter of the American Fisheries Society
2013	Student Travel Award , North American Lake Management Society
2013	Certificate of Appreciation , Palouse Student Subunit, Idaho Chapter of the American Fisheries Society
2013	Travel Award , Graduate and Professional Student Association, University of Idaho
2010	Natural Science Faculty Award , Northland College
2010	Alpha Chi National College Honor Scholarship Society
2007-2010	Dean's List

TRAINING AND CERTIFICATIONS

2014	Workshop: An Introduction to Structured Decision Making and Adaptive Management for Natural Resources Management
2012	Department of Interior Motorboat Operator Certification Course
2012	University of Idaho, Institutional Animal Care and Use Training
2012	University of Idaho, Defensive Driving
2011	PADI Advanced Open Water Diver Certification
2009	PADI Open Water Diver Certification

MANUSCRIPTS IN PRESS

Whitlock, S. L., M. C. Quist, and A. M. Dux. 2014. Incubation success and habitat selection of shore-spawning kokanee *Oncorhynchus nerka*: effects of water level regulation and habitat characteristics. Ecology of Freshwater Fish.

Whitlock, S. L., M. C. Quist, and A. M. Dux. 2014. Influence of habitat characteristics on shore-spawning kokanee *Oncorhynchus nerka*. Transactions of the American Fisheries Society.

MANUSCRIPTS IN REVIEW

Whitlock, S. L., M. C. Quist, and A. M. Dux. 2014. Kokanee recruitment response to water level management and hatchery supplementation in Lake Pend Oreille, Idaho. North American Journal of Fisheries Management.

MANUSCRIPTS IN PREPARATION

Whitlock, S. L., M. R. Campbell, M. C. Quist, and A. M. Dux. 2014. Genetic and phenotypic characteristics of temporally and spatially segregated kokanee *Oncorhynchus nerka* spawners in Lake Pend Oreille, Idaho.
Target: Transactions of the American Fisheries Society

Whitlock, S. L. and J. L. McCormick. 2014. Effects of stocking density and environment on Rainbow Trout catch rates in put-and-take fisheries in Oregon.
Target: Transactions of the American Fisheries Society

Schultz, L. D., M. P. Mayfield, G. T. Sheoships, L. A. Wyss, B. J. Clemens, S. L. Whitlock. 2014. Role of large- and fine-scale variables in predicting catch rates of larval Pacific lamprey in the Willamette Basin, Oregon
Target: Ecology of Freshwater Fish

PROFESSIONAL SERVICE

2012-2013	Graduate Fisheries Representative , Student Seminar Speaker Selection Committee, Department of Fish and Wildlife Sciences, University of Idaho
2012-2013	Graduate Student Representative , Palouse Student Subunit, Idaho Chapter of the American Fisheries Society
2012-2013	Western Division Representative , Student Subsection, Education Section of the American Fisheries Society

PROFESSIONAL PRESENTATIONS

Schultz, L. D., S. L. Whitlock, G. T. Sheoships, and C. B. Schreck. 2014. A declining generalist? The curious case of the Pacific lamprey (*Entosphenus tridentatus*) in the Northwest. 19th Biennial Ecological and Evolutionary Ethology of Fishes Meeting, Corvallis, Oregon. ORAL

Whitlock, S. L., M. C. Quist, and A. M. Dux. 2014. Understanding the habitat requirements of shore-spawning kokanee. Annual Meeting of the American Fisheries Society Oregon Chapter, Eugene, Oregon. ORAL.

- Whitlock, S. L., M. C. Quist, and A. M. Dux. 2014. Measuring the effects of water level management on kokanee in Lake Pend Oreille, Idaho using a bootstrap stock-recruitment model. Annual Meeting of the American Fisheries Society Oregon Chapter, Eugene, Oregon. ORAL.
- Whitlock, S. L., M. C. Quist, and A. M. Dux. 2014. Effects of water level regulation and habitat characteristics on shore-spawning kokanee incubation success and habitat selection in Lake Pend Oreille, Idaho. Annual Meeting of the American Fisheries Society Idaho Chapter, Idaho Falls, Idaho. ORAL.
- Whitlock, S. L. 2013. Kokanee spawning ecology and recruitment response to water level management in Lake Pend Oreille, Idaho. Thesis Defense, University of Idaho, Moscow, Idaho. ORAL.
- Whitlock, S. L., M. C. Quist, and A. M. Dux. 2013. Evaluation of water level management as a tool for enhancing shore-spawning kokanee recruitment in Lake Pend Oreille, Idaho. 33rd International North American Lake Management Society Symposium, San Diego, California. ORAL.
- Whitlock, S. L., M. C. Quist, and A. M. Dux. 2013. Kokanee recruitment response to water level management in Lake Pend Oreille, Idaho. 143rd Annual meeting of the American Fisheries Society, Little Rock, Arkansas. ORAL.
- Whitlock, S. L., M. C. Quist, and A. M. Dux. 2013. Optimizing mysid shrimp sampling efforts in Lake Pend Oreille, Idaho. 143rd Annual meeting of the American Fisheries Society, Little Rock, Arkansas. POSTER
- Whitlock, S. L., M. C. Quist, and A. M. Dux. 2013. An *in situ* egg box experiment to assess kokanee shore-spawning incubation success Lake Pend Oreille, Idaho. Joint meetings of the Idaho Chapter and Western Division of the American Fisheries Society, Boise, Idaho. ORAL
- Whitlock, S. L., M. C. Quist, and A. M. Dux. 2013. Habitat characteristics influencing shore-spawning kokanee incubation success in Lake Pend Oreille, Idaho. 32nd International Kokanee Workshop, Fort Collins, Colorado. ORAL
- Whitlock, S. L., M. C. Quist, and A. M. Dux. 2012. Comparison of kokanee breeding groups in Lake Pend Oreille, Idaho. 142nd Annual meeting of the American Fisheries Society, Minneapolis, Minnesota. POSTER
- Whitlock, S. L., A. M. Dux, and M. C. Quist. 2012. Evaluation of kokanee egg-to-fry survival estimates in Lake Pend Oreille, Idaho. Idaho Department of Fish and Game Panhandle Region Meeting, Coeur d'Alene, Idaho. ORAL

Whitlock, S. L., A. M. Dux, and M. C. Quist. 2012. Evaluation of Lake Pend Oreille water level management strategy and kokanee egg-to-fry survival estimates. Idaho Department of Fish and Game Strategy Meeting, Priest Lake, Idaho. ORAL

Whitlock, S. L., M. C. Quist, and A. M. Dux. 2012. Sensitivity analysis of kokanee egg-to-fry survival estimates in Lake Pend Oreille, Idaho. Annual Meeting of the American Fisheries Society Idaho Chapter, Coeur d'Alene, Idaho. POSTER

REFERENCES

Dr. Carl Schreck
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