

Tadd Wheeler
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Education

Doctorate of Natural Resources, University of Idaho – August 2014

Topic: Marine Derived Nutrients in Riparian Ecosystems of the Pacific Northwest

Bachelor of Science, University of Washington – June 2008

Major: Environmental Science and Resource Management with an emphasis on remote sensing and wildlife ecology

Minor: Quantitative Science

Associate of Science, Lower Columbia College – June 2006

Universal Technical Institute, 1994-95 – Diesel/Automotive repair

Academic Experience

University of Idaho

Lecturer, August 2014 – present

Courses taught:

Beginning Welding (ASM107) – introductory course in metallurgy and fusion based welding processes.

Small Engines (ASM210) – Theory and repair of small gasoline powered engines.

Practicum in Restoration Ecology (CSS580) – the capstone course for the restoration ecology certificate.

Ecological Monitoring and Analysis (REM411) – a hybrid course extension of the Principles of Vegetative Management course. This course focused on the analysis and interpretation of vegetative attributes collected on multiple field trips to forested, rangeland, and riparian ecosystems.

Interdisciplinary Natural Resource Planning (FOR404/504) – this course brings together students from different academic backgrounds to experience the collaborative process of creating a natural resource management plan.

Introduction to Forestry (FOR102) – this introductory course introduces student to the history of forest practices, land ethics, and the diversity of disciplines in forest, rangeland, and fire sciences.

Forest Dynamics and Management (FOR424) – a field trip rich and simulation model driven course on forest development and management strategies.

Forest Regeneration (FOR324) – a course focused on the methods of maintaining and re-establishing forested communities.

Interdisciplinary Natural Resource Planning (FOR404/504) – this course brings together students from different academic backgrounds to experience the collaborative process of creating a natural resource management plan.

Principles of Vegetative Management (REM410) – An exclusively online course focused on principles and techniques for assessing rangeland vegetation.

Palouse Prairie School of Expeditionary Learning

Substitute instructor for grades K-8, September 2013 – May 2015

University of Idaho

Teaching Assistant, September 2013 – December 2013

Assisted with the teaching of an undergraduate class on forest management. Responsible for lab equipment, motor pool vehicles, fieldtrip logistics, and grading.

National Science Foundation Grade K-12 Fellow, June 2012 – May 2013

Partnered with a high school science teacher as a visiting scientist to enhance student learning through interactive lessons. Developed and conducted lessons and lab activities that brought current science and knowledge into the classroom.

Research Assistant, June 2008 – May 2012

Conducted scientific research on the vegetative and soil nutrient responses of riparian forests in central Idaho to the deposition of salmon carcasses. Designed and implemented instrumentation, measurement, and analysis of soil and vegetative biochemical parameters. Worked collaboratively with federal, state, and educational entities.

Publications

Wheeler TA, KL Kavanagh, SL Daanan. (2014). Terrestrial salmon carcass decomposition: nutrient and isotopic dynamics in central Idaho. *Northwest Science* 88(2).

Wheeler TA, KL Kavanagh. (In Review). Soil biochemical responses to the deposition of anadromous fish carcasses in inland riparian forests of the Pacific Northwest, USA.

Wheeler TA, KL Kavanagh. (In Prep). Marine derived nutrients and understory vegetation in oligotrophic inland riparian forests of the Pacific Northwest, USA.

Recent Presentations

"Marine Nutrient Subsidies in Inland Riparian Forest of the Columbia River Basin" (Poster)
Wheeler TA, K Kavanagh, A Noble-Stuen. April 2015. Northwest Scientific Conference Association conference – Pasco, Washington

"The Importance of Marine Nutrient Subsidies in Riparian Forests" (Public presentation)
Wheeler TA, A Noble-Stuen, K Kavanagh. July 2013. Idaho Department of Fish and Game – Boise, Idaho

"Marine Nutrient Subsidies in Inland Riparian Forests" (Poster) Wheeler TA, K Kavanagh, A Noble-Stuen. August 2012. Ecological Society of America conference – Portland, Oregon

"The importance of Marine Nutrient Subsidies in Mountainous Riparian Forests" (oral presentation) Wheeler TA, K Kavanagh, A Noble-Stuen. September 2011. American Fisheries Society conference – Seattle, Washington

"The importance of Marine Derived Nutrient Subsidies in Mountainous Riparian Forests"
(poster) Wheeler TA, K Kavanagh, A Noble-Stuen. March 2011. American Fisheries Society
Idaho chapter annual meeting – Boise, Idaho

Honors and Awards

National Science Foundation Grade K-12 Fellow, 2012 – 2013

Continuing Graduate Scholarship, Jack Kent Cooke Foundation, June 2008

Undergraduate Transfer Scholarship, Jack Kent Cooke Foundation, June 2006

Other Relevant Work Experience

(July 2004 - September 2004) *Peter Pan Seafoods, Valdez, AK*

Performed welding and fabrication projects as well as repair and maintenance within a salmon cannery. Maintained equipment that processed and packaged Salmon Roe for domestic and export shipment.

(August 2003 – March 2004) *Washington Department of Fish and Wildlife*

Operated tank truck transporting adult salmon and steelhead between hatchery facilities. Also responsible for daily hatchery duties including: feeding, cleaning ponds, sampling fry, sorting and spawning adults, picking egg loss, welding, fabricating, and other mechanical repairs as needed.

(September 2002 - August 2006) *M & M Transport, Chehalis, WA*

Part time driver/mechanic performing heavy truck repair and maintenance on fleet equipment. Occasionally operated heavy haul over the road equipment or acted as substitute dispatcher.

(April 2001 - August 2002) *M & M Transport, Chehalis, WA*

Night dispatcher and supervisor responsible for up to 40 drivers and six truck shop maintenance personnel. This position required extensive customer relations for the purpose of shipping and receiving based on variable production rates and customer request. Also responsible for overseeing the maintenance facility and providing technical support to mechanics.

(March 1998 - March 2001) *M & M Transport, Chehalis, WA*

Operated various sizes of class A commercial vehicles, transporting and relocating sawmill and other forest byproducts. Occasionally worked in the shop facility performing heavy truck welding, repair, and preventative maintenance tasks.

Applicable Skills

Welding and fabrication including: mild steel, aluminum, stainless steel, MIG, TIG, oxyacetylene, Wire feed, Arc, Air Arc, Plasma

Small engine theory and repair

Automotive and heavy truck repair

Varying levels of machine shop tool experience including: mills, lathes, drill presses, grinders, saws, and presses

Shop safety and management

Forklift and Hyster operation

Small scale aquaculture

Class A CDL with endorsements

Motorcycle endorsement