**Robin T. Welling**

Department of Geosciences, University of Montana

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**Education:**

University of Montana Fall 2016 - Present

M.S. Student, Department of Geosciences

Researching the influence of large wood on sediment routing in low-order mountain streams using a combination of field surveys, remote sensing, and modeling. Expected graduation December 2018

University of Minnesota January 2012 - May 2014

B.S., summa cum laude, Ecology Evolution and Behavior. GPA 3.9.

Transferred spring 2012 from University of Vermont. Graduated St. Paul Central High School June 2010.

**Research Interests:**

I am interested in applied and interdisciplinary research in water resources. Many topics in fluvial geomorphology, ecogeomorphology, stream ecology, and ichthyology excite me including effects of land use and dam removal on aquatic habitat, ecological flows, and stream restoration.

**Teaching:**

Teaching Assistant January 2017 – March 2017

University of Montana, Biology Department

Instructed lab section for Biology 226, an introductory biology and earth science course for prospective elementary school teachers and other non-scientists. Lab sections met twice weekly for two hours each time. Developed weekly quizzes and two practical exams. Resigned mid-March to return to Minnesota to care for terminally ill parent.

Teaching Assistant August 2016 – December 2016

University of Montana, Physics Department

Instructed lab section for Physics 225, an introductory physical and chemical science course for prospective elementary school teachers and other non-scientists. Lab sections met twice weekly for two hours each time. Graded all assignments for 60 students in the course.

**Related Experience:**

Biological Science Technician, GS 5 April – August 2016

US Forest Service (USFS), Alaska Region, Tongass National Forest, Petersburg Supervisors Office

Worked for forest-wide Watershed Restoration Effectiveness Monitoring Program (WREM). Member of a five-person crew, which completed 18 stream surveys across the Tongass National Forest. Stream surveys followed USFS Region 10 (R10) Tier III and IV protocols. Each survey consisted of a longitudinal profile and cross section survey, habitat delineation, pebble and large wood counts, and fish surveys via minnow trapping. Assisted with trip planning, preparation, and data processing.

Biological Science Technician, GS 5 May – October 2015

USFS, Alaska Region, Tongass National Forest, Petersburg Ranger District

Stream reconnaissance for pre-timber sale on Kuiu Island. Determined stream class based on R10 protocol, and assessed fish presence by habitat observation, minnow trapping, and backpack electroshocking. Worked solo in rugged and remote terrain. Navigated with GPS and compass, and communicated by radio. Assisted with stream surveys including longitudinal profile and cross section measurements, and pebble and large wood counts. Created and edited maps using ArcGIS 10 software. Wrote and recorded two creative writing pieces for Tongass Journal on public radio station KFSK, Petersburg.

Stream Habitat Program Intern May – December 2014

Minnesota Department of Natural Resources (DNR)

Stream fish sampling across MN using electroshocking equipment. Identified fish, collected biological and habitat data, assisted with trip planning, maintained equipment, and entered data. Performed culvert assessment for fish passage in Root River Watershed. Accompanied senior employees on stream monitoring work on Whitewater River. Issued state purchasing card for program purchases.

MinnAqua/Naturalist Corps Intern May – August 2011

MN DNR

Worked within Parks and Trails and Fish and Wildlife divisions. Time was equally split between working as a Naturalist Corps member at Fort Snelling State Park in St. Paul and as a MinnAqua Program educator for the Twin Cities. As a naturalist intern, provided interpretive programming to park visitors. Work as a MinnAqua educator focused on the education of youth in aquatic habitats and angling.

University of Minnesota Student Researcher September 2013 – May 2014

Completed research project under supervision of professor Andrew Simons on genetic relatedness of minnow species *Notropis wickliffi* and *N.* *volucellus* and historical distribution within Minnesota.

**Awards:**

Summer 2017 Montana Institute on Ecosystems Graduate Student Enhancement Award

2017 Montana Water Center Graduate Student Research Fellowship

2017 Geological Society of America Research Grant

**Certifications/Trainings:**

University of Montana Responsible and Ethical Conduct of Research. Valid 5/17/17 –

MN DNR Watercraft Operator's Permit. Completed workbook, paper test, and hands-on instruction. Valid 6/1/2014 –

**Skills:**

Extensive experience with Microsoft applications. Competent in ArcGIS, Trimble software, Adobe Illustrator, R, and MATLAB.

**Personal Interests:**

I enjoy being active and outside. I am a dedicated cyclist (both for commuting and pleasure) and competitive cross-country ski racer. I also like to canoe, fish, and camp.