

**Jarred J Stone**

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Phone: (907) 854 – 0075

**Work Experience:**

**United States Fish & Wildlife Service (USFWS)**

1011 East Tudor Rd. Anchorage, AK 99501 United States

**Supervisor:** Karen Hyer (907) 786 – 3689

**Dates of Employment:** 02/2016 - Present (Hours per week: 40)

**Position: Graduate Pathways Program - Fisheries Biologist (GS-0499-06)**

**Duties, Accomplishments and Related Skills**

- Monitor Fisheries Resource Monitoring Program (FRMP) projects in support of Alaska subsistence fisheries research. Create draft of Notice of Funding Opportunities for posting to grants.gov. Review proposals, budgets, and all necessary documentation required for creating a Financial Assistance award. Create draft of Notice of Award Letter to be reviewed by Office of Subsistence Management (OSM) project officers.
- Lead analyst for Northern Region project proposals, reviewing and assessing how projects address the five criteria used in the OSM's selection process. Work with a team of fisheries biologists, a technical review committee, an interagency staff committee, a regional advisory council(s), and the Federal subsistence board to determine if criterion are met.
- Administer the Partners for Fisheries Resource Monitoring Program working closely with Alaska native organizations to fund research for stocks, status, and trends and traditional ecological knowledge projects. Assist the native organization biologists in designing, planning, and implementing outreach/education projects and research projects.
- Acted as lead analyst on a Chinook Salmon regulatory proposal to add new regulation to the federal subsistence fisheries harvest timing in sub district 5D on the Yukon River. Collaborated with federal land managers, local subsistence users, State agency personnel and the Eastern Interior Regional Advisory Council to determine the implications of a newly added regulation. Presented findings to the Federal Subsistence Board members.
- Assist OSM fisheries biologists with in-season management special actions to regulate fisheries harvest.
- Work with Alaska Native Science & Engineering Program (ANSEP) to annually employ 12 fisheries interns. Coordinate the student hiring process by working closely with HR for both local and competitive hires.
- Travel to various FRMP project field sites to assist with project objectives. Learn new methods for estimating fisheries population abundance, distribution, stock origins, mix-stock analysis, and genetics. Gained exposure to a wide variety of fisheries sampling techniques.

- Create simple queries and summaries for regional overview that describe OSM funding support toward FRMP and Partners for Fisheries Monitoring Program.
- Assisted the Wrangell/St. Elias National Park Fisheries Biologist on a project collecting otoliths from Tanada Lake adult Sockeye Salmon.
- Safely operated rigid hulled inflatable skiffs to transport marine biologist for sea otter observations in the nearshore marine environment of the Aleutian Islands based from the USFWS research vessel R/V Tiglax (MOCC certified).

**United States Fish & Wildlife Service (USFWS)**

4700 BLM Rd. Anchorage, AK 99501 United States

**Supervisor:** Jonathon Gerken (907) 271-2776

**Dates of Employment:** 05/2015 - 11/2015 (Hours per week: 40)

**Position Fisheries Crew Lead Technician (GS-0404-06)**

**Duties, Accomplishments and Related Skills**

- Directed and supervised one other fisheries technician on the procedures and methods described in the sampling design to conduct fisheries research that complied with our research study plan. Maintained detailed and accurate records of methodologies, data and analysis performed in field research.
- Installed and maintained three remote solar powered 12 volt passive integrated transponder array antenna's (PIT) in Meadow Creek to monitor the distribution and movement of juvenile Coho Salmon throughout the course of the summer/fall.
- Supervised as a crew lead while in the field and at a semi-remote field camp where I lived and oversaw the direction and safety of the crew.
- Provided guidance to the technician to gain a better understanding of technical field work and how to manage tasks effectively while meeting deadlines.
- Worked with Partner organizations such as Cook Inletkeeper on a juvenile Coho Salmon project assessing the possibilities of preferential thermal refugia and habitat selection. Assisted their crew once a month by gathering fisheries data relevant to their study plan using both backpack electrofishing, minnow trapping and setting temperature HOBO data loggers.
- Compiled and organized all PIT tag uploads and transferred into MS Excel for analysis.
- Oversaw quality control and quality assurance measures to maintain data integrity.
- Collected and aged juvenile Coho Salmon scales.
- Created simple graphs and figures for inference.

-Used fyke nets to capture juvenile Coho Salmon in lakes.

**Center for Environmental Management of Military Lands (CEMML)**

Arctic Warrior Drive Anchorage, AK 99516 United States

**Supervisor:** Jessica Johnson (907) 750-1243

**Dates of Employment:** 05/2014 - 11/2014 (Hours per week: 40)

03/2013 - 06/2013 (Hours per week: 40)

06/2012 - 11/2012 (Hours per week: 40)

**Position: Fisheries technician Crew Leader**

**Duties, Accomplishments and Related Skills**

- Operated fixed panel fish weir and DIDSON LR300 sonar in Eagle River to estimate abundance of all five Pacific salmon species. Taught fisheries technicians how to install the sonar, maintain the sonar and ensure best insonification, and how to mark fish on echograms, measure fish, record fish, and compile data into worksheets.
- Operated, maintained and taught fisheries technicians the use of a three-basket fish wheel and its 12 volt motion-sensing camera equipment to apportion the salmon populations in Eagle River.
- Trained and supervised 6 fisheries technicians in the field methods to quantify the abundance and run timing of juvenile smolt and adult salmonids using fixed picket weir and conducted streamside carcass counts on Sixmile Creek.
- Created a field guide handbook for the Eagle River salmon abundance and run timing project that describes in detail the various technical tasks fisheries technicians are expected to handle. Described in detail software guidelines and protocols for handling batch processed files from the DIDSON review software.
- Maintained database of DIDSON sonar files and analyzed data to create figures, tables, and appendices.
- Installed and operated Sixmile Creek smolt trap to record annual juvenile smolt out-migration and composed figures and tables depicting run timing and species composition.
- Installed and operated Six Mile Creek adult salmon weir to record returning salmon abundance, run timing and species composition.
- Coauthored technical report writings and edits of the 2014 Eagle River Adult Salmon Monitoring Program, queried and handled data for preparation of reports, performed statistical analysis.
- Trained new fisheries technicians on the operation, maintenance, and troubleshooting of the DIDSON LR300 to reduce downtime and data gaps in-season.

**HDR Alaska**

2525 C Street, # 305 Anchorage, AK 99503 United States

**Supervisor:** Erin Cunningham (907) 644-2115

**Dates of Employment:** 06/2013 - 11/2013 (Hours per week: 40-70)

**Position: Fisheries Field Biologist**

**Duties, Accomplishments and Related Skills**

- Oversaw the training and field orientation for 8-10 fisheries technicians per two-week long trip gathering fish distribution, relative abundance, and habitat assessments on the upper Susitna River in remote field camps.
- Coordinated daily logistics for sampling at 96 sites to be visited via helicopter and rafting throughout the course of spring, summer and fall on the upper Susitna River. Purchased gear and materials needed and oversaw the transportation of gear to and from the field using fixed wing aircraft, R-44 and A-Star helicopter, and the railroad. Experienced in helicopter sling loading.
- Operated motorized cataracts daily to conduct electrofishing sampling on the main-stem upper Susitna River using a Smith Root 2.5 GPP generator powered electrofishing unit. Trained personnel on the use of safe and effective electrofishing techniques.
- Gathered and quality controlled field collected data from Ipads during the field season to create in season reports for clients.
- Used a variety of methods to sample fish including fyke nets, snorkeling, electrofishing, angling, beach seining, minnow trapping, and PIT tagging.
- Worked in remote field camps for 2-3 weeks at a time and oversaw safety of the fisheries technicians by conducting daily safety checklists and reminders.

**Ashland County Land and Water Conservation Department**

315 Sanborn Ave, Suite 100 Ashland, WI 54806 United States

**Supervisor:** Tom Fratt (715 682 7187)

**Dates of Employment:** 05/2011 - 12/2011 (Hours per week: 40 )

**Position: Aquatic Invasive Species/GIS Specialist**

**Duties, Accomplishments and Related Skills**

- Operated small john boats to monitor 25 lakes located in Ashland County for aquatic invasive species (AIS) by fin-snorkeling and rake. Reported newly found AIS to Wisconsin Department of Natural Resources.
- Reviewed and edited the Ashland County Fish Creek Watershed and Restoration Management Plan. Created maps and figures for the document and provided assistance with identifying data gaps.
- Assisted Ashland County Conservationist in choosing culvert design for a small stream's using watershed analysis software.
- Created and maintained a GIS geodatabase and created maps and queries upon the request of Ashland County using ArcGIS Version 10.0.

- Mass mailings from GIS queried parcel owners to help start organized lake owners associations.

**United States Fish and Wildlife Service (USFWS)**

2300 Lakeshore Drive Ashland, WI 54806 United States

**Supervisor:** Henry Quinlan (715) 682-6185 Ext. 112

**Dates of Employment:** 05/2010 - 09/2010 (Hours per week: 40)

05/2009 - 09/2009 (Hours per week: 40)

**Position: Fisheries Biological Technician (GS-0482-3)**

**Duties, Accomplishments and Related Skills**

- Monitoring of native and recently introduced Coaster Brook Trout populations in the Whittelsey Creek National Wildlife Refuge with passive integrated transponder tags (P.I.T. tags) using fixed antenna arrays and backpack antenna arrays.
- Experienced in the use of PIT tag technology which includes the PIT tag implants, tracking equipment, setting up 12 volt solar powered array's, uploading data, troubleshooting and fine tuning arrays.
- Great Lakes gill netting experience (Whitefish, Lake Trout and Coho Salmon) on the 30' R/V Chub collecting otoliths on primarily Lake Trout and Lake Whitefish.
- Sampling of aquatic invasives in the St. Louis estuaries near Duluth, MN using a variety of capture methods including fyke-netting, beach seining, bottom trawling, electro-fishing (boat boom-shocking, barge electrofishing and backpack electrofishing).
- Otolith collection and aging of Lake Trout.
- Fish scale removal, scale pressing, and reading of scale ages on coaster brook trout. Digital photography stored for future reference.
- Coaster Brook Trout stomach content analysis using dichotomous key for invertebrate phylum.
- GPS experience mapping coordinates for sample sites using Garmin Map Source® and converting into detailed maps describing sample sites with ESRI ArcView.
- Fixing and repairing gill nets. Assisted with mixed gill net mesh size randomization to reduce gear biases.
- Genetic sampling of auxiliary process, pectoral fin clips.
- Experience installing and using Hummingbird side shooting sonar to map Coaster Brook Trout habitat substrate near Isle Royal in Lake Superior.

**Education:**

**Alaska Pacific University** - M.S. Environmental Science – F.A.S.T. Laboratory

**Anticipated Defense Date:** April 2018

**GPA:** 3.63 of a maximum of 4.0

**Academic Advisor:** Brad Harris (907) 903-8606

**Masters Thesis:** *Investigating the influence of diet on the condition of juvenile Chinook Salmon in the Northern Bering Sea using stable isotope analysis and bomb calorimetry.*

**Graduate Experience:**

September 2015 -Present (anticipated graduation April 2018)

- Travelled to both Nome and Dutch Harbor and worked on both the Alaska Department of Fish and Game R/V Pandalus and the National Oceanic and Atmospheric Administration chartered fishing vessel F/V Northwest Explorer for both 2015 and 2016. Surface water trawled on both a 68' ADFG Research Vessel (R/V Pandalus) and NOAA's Chartered 170' Fishing Vessel F/V Northwest Explorer.
- Laboratory experience setting up, maintaining, and running bomb calorimetry instrumentation (Parr 1425 Semimicro bomb calorimeter) and maintaining standardization processes (trained by staff at the NOAA Auke Bay Laboratory) to obtain energy density values of juvenile Chinook Salmon that I collected and prepared for analysis.
- Collected and prepared fish tissue samples for stable isotope analysis of  $\delta^{13}C$  and  $\delta^{15}N$  to assess dietary source contributions and trophic niche width using hierarchical mixing models (MixSIAR and SIBER).
- Experienced using taxonomic keys to identify vertebrates and invertebrates for stomach content analysis.
- Statistical coursework includes quantitative methods and advanced mathematical modeling (8 credits using R Studio) where we learned both classical frequentist methods and Bayesian methods of probability distributions.
- Collected and assessed juvenile Chinook Salmon gut contents to understand prey consumption and composition.

**Northland College** - Ashland, WI United States

**GPA:** 3.1 of a maximum 4.0

**Credits Earned:** 159 Semester hours

**Major:** B.S. Natural Resource Management Emphasis on Fisheries Ecology (Completed 05/2012)

**Minor:** GIS, Biology

**Undergraduate Experience/Training:**

- Aquatic invertebrate course where we learned various taxonomic groups. We also examined the use of invertebrates as indicators of ecosystem health using various indexes.
- Various fisheries related coursework including: ichthyology, fisheries management principles, fisheries methods, advanced biometry, limnology.
- Introduced to R Studio for fisheries analysis (introduction to statistics, advanced biometry, fisheries management principles (12 credits using R Studio and taught by Dr. Derek Ogle).

Undergraduate coursework related to this position

<b>Biology Related</b>	<b>Fisheries Related</b>	<b>Statistics Related</b>
Concepts of Biology	Fisheries Techniques	Statistical Concepts Analysis
Introduction to Natural Resources	Limnology	Biometry
Ecology	Fisheries Science & Management	Fisheries Science & Management
Wetlands	Ichthyology	
Genetics		
Cell Biology		
Vertebrate Physiology		
Aquatic Invertebrates		

**Job Related Training:**

- Financial Assistance Project Officer certified (USFWS 2017)
- Swift-water training and certified (2012)
- CPR certified (2016)
- Wilderness first responder (2016)
- MOCC training (2015)
- Boaters' safety certified by the Wisconsin Department of Natural Resources (2011)
- USFWS bear firearm safety training (2016)
- USFWS first aid certified (2016)
- Fixed wing aircraft training (2016)
- USFWS water egress training (2016)
- Wildland fire S-130/S-190 certified (2011)
- Experienced with the safe handling of firearms
- Experienced in boating (fresh and salt water) in either console or tiller driven outboards. I am comfortable in operating propeller driven boats up to 30' and river jet boats up to 20'.