

Carson White

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Summary of Strengths

- Experienced in a wide variety of field and lab research techniques obtained through education, volunteer and work experience, including:
 - Fish collection methods: fresh and saltwater angling, beach and purse seine, minnow traps and electrofishing.
 - Telemetry: gastric radio and acoustic and PIT tag implantation as well as install, maintenance and download of receiver stations.
 - Operating and working aboard small vessels in both marine and freshwater environments.
 - High quality data collection in swift water environments.
- Strong organizational and time management skills gained while balancing high level varsity rugby and university studies.

Education and Honours

September 2009 – May 2014 - B.Sc., Natural Resources Conservation

University of British Columbia – Faculty of Forestry

- Graduated with Honours (81.5%)
- Varsity Rugby Player – 2013/2014 Academic All Canadian

Research Experience

July 2015 – December 2015 – Environmental Field Technician at Ecofish Research Ltd.

Research Aims

- To assess fish community and habitat before and after construction of hydropower facilities in coastal British Columbia.

Responsibilities

- Fish stranding surveys in response to operational ramping events.
- Snorkel surveys and electrofishing for mark-recapture studies to establish fish community.
- Stream bed morphology surveys, data-logger installation and fish habitat assessment procedures (FHAP) to establish measures of fish habitat.

April 2015 - July 2015 – Research Assistant at Hakai Institute to John Reynolds (Simon Fraser University), Larry Dill (SFU), and Martin Krkosek (University of Toronto)

Research Aims

- To assess early marine survival of juvenile Pacific salmon in Johnstone Strait, a potential mortality hotspot.

Responsibilities

- Operated a small vessel with a crew of volunteers that collected fish by purse seine.
- Destructively sampled fish for lab professionals to further test for pathogens, sea lice prevalence, stomach content and morphological measures.
- Marine zooplankton identification from both horizontal and vertical plankton tows, including stomach content analysis of juvenile salmon.

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January 2015 – March 2015 – Research Technician at Round River Conservation Studies

Research Aims

- To assess how backcountry winter recreation activities affect the movement and behaviour of wolverines in Grand Teton National Park, using GPS collar data.

Responsibilities

- Assisted project biologists in the live capture, anaesthetising, radio collar fitting and collection of biological and physical measures.
- Actively maintained a trap line (bait, hair snare, game camera, trap maintenance) for live capture of wolverines.

July 2014 – December 2014 – Research Assistant to Scott Hinch (University of British Columbia)

Research Aims

- To assess the migration ecology of adult Pacific salmon, including passage through a hydro dam fish way and responses to recreational angling stress, using multiple forms of biotelemetry and biological samples.

Responsibilities

- Installed, maintained and downloaded PIT, radio and acoustic telemetry passive receivers as well as manually tracked radio tags.
- Gastrically implanted tags and collected biological samples (blood, fin clip) for laboratory analysis.
- Destructively sampled fish to collect otoliths, brain, liver, kidney, spleen, blood and flesh samples for analysis by lab professionals.

May 2013 – May 2014 – Research Assistant to Nicholas Coops (University of British Columbia)

Research Aims

- To assess grizzly bear interaction and habitat use of anthropogenic forest disturbance in southwestern Alberta using radio telemetry, satellite imagery and ArcGIS.

Responsibilities

- Blended Landsat and MODIS imagery using an existing cover change algorithm to achieve high spatial resolution with a bi-weekly return period to characterize forest canopy change in known grizzly bear habitat.
- ArcGIS data download and manipulation from external sources and analysed spatial metrics to observe habitat use by individual grizzly bears.

Publications

White, C.F.H., Coops, N.C., Nijland, W., Hilker, T., Nelson, T., Wulder, M.A., Nielsen, S.C., Stenhouse, G (2014) Characterizing a Decade of Disturbance Events using Landsat and MODIS Satellite Imagery in Western Alberta, Canada for Grizzly Bear Management. Canadian Journal of Remote Sensing. Volume 40 Issue 5, Pages 336-347.

Manuscripts in Preparation

Burnett, N.J., Hinch, S.G., Bett, N.N., Braun, D.C., Casselman, M.T., Cooke, S.J., Gelchu, A., Lingard, S., Middleton, C.T., Minke-Martin, V., **White, C.F.H.** Mitigating Post-dam Passage Mortality.