

Jeffery Young

Education: Master of Science, Faculty of Forestry, May 2003 – 2006
Supervisor: Dr. Scott Hinch
Project: Physiology and energetics of migrating sockeye salmon

Bachelor of Science in Environmental Science (Biology), May 2000
University of Calgary
First Class Honours
Dean's List member 97/98, 98/99, 99/00
Recipient of the Laura Ircandia Memorial Scholarship

Employment:

Aquatic Biologist

David Suzuki Foundation, 02/2005 - present

- Managed salmon conservation projects, particularly in relation to fisheries reform , federal wild salmon policy implementation, and habitat protection.

Research/Teaching Assistant

University of British Columbia, Natural Resources Conservation Program, 05/2003 – 10/2005

- Taught field/lab courses on aquatic ecology to advanced undergraduate students.
- Supported field research evaluating the biology and physiology of Pacific salmon.

Aquatic Biologist/Environmental Scientist

IEG - Inuvialuit Environmental and Geotechnical Inc. (100% aboriginal-owned), 07/2001 – 04/2003

- Led environmental assessment projects evaluating oil & gas exploration activities in the Inuvialuit region of the Northwest Territories.
- Conducted marine and terrestrial biophysical studies of ecosystems in the Canadian Arctic.
- Reviewed Alberta oil sands project Environmental Impact Assessments on behalf of local First Nations communities.

Biology Instructor/Field Guide/Lab Management

Bishop Carroll High School, 02/2001 – 06/2001

- Designed and presented general science, biology, and biology honours seminars for grades 10-12.

NSERC-Funded Independent Research

Stable Isotopes and trophic dynamics in streams of west-central Alberta, 05/1999 – 04/2000

- Developed and implemented an investigation of the use of stable isotopes and stream invertebrates in the assessment of stream trophic dynamics and overall watershed quality.
- Provided baseline research in the proposed Cheviot mine region relevant to potential Before-After Control-Impact (BACI) studies.

Project Team Leader

University conducted sewage disposal impact assessment for Bragg Creek, AB, 09/1999 – 04/2000

- Planned and implemented a sampling program for the assessment of benthic invertebrate and algae composition, as well as stream chemical and physical water quality parameters.

Ecology Research Assistant
U of C Ecology Laboratories, 05/1999 – 12/1999

- Planned and conducted extensive stream benthic invertebrate and other biological sampling.

Professional Publications:

2009. Knowledge integration in salmon conservation and sustainability planning: Towards effective implementation of Wild Salmon Policy strategy four. Prepared by Dovetail Consulting for the David Suzuki Foundation and Watershed Watch Salmon Society.
2008. Returning Salmon: Integrated planning and the Wild Salmon Policy in B.C. Prepared by Essa Technologies Ltd. for the David Suzuki Foundation.
2008. An Upstream Battle: Declines in 10 Pacific salmon stocks and solutions for their survival. Prepared by LGL Limited for the David Suzuki Foundation.
2006. The Will to Protect: Preserving B.C.'s wild salmon habitat. Prepared by the David Suzuki Foundation.
2003. Water and wastewater sample training in support of water licensing in Nunavut. Prepared by IEG Inc.
2002. Aquatic biodiversity, water quality, and riparian integrity as indicators of ecosystem health in the Wood Buffalo Region, Alberta. Prepared by Komex International and IEG Inc.
2002. Evaluation of the potential impacts to tundra vegetation and surface water bodies as a result of applying Tuktoyaktuk Harbour surface water for the construction of seasonal ice roads in the Tuktoyaktuk region, NT, Canada - particular consideration of salinity and the Sodium Adsorption Ratio (SAR). Prepared by IEG Inc.
2001. Potential impacts of leachates derived from an abandoned concrete caisson located in the Beaufort Sea, Canada. Prepared by IEG Inc.
2001. An evaluation of early season construction of overland ice roads in the vicinity of Tuktoyaktuk, NT, Canada. Prepared by IEG Inc.

Peer-reviewed Publications:

- Cooke, S. J., S. G. Hinch, G. T. Crossin, D. A. Patterson, K. K. English, M. C. Healey, J. S. Macdonald, J. M. Shrimpton, J. L. Young, A. Lister, G. Van Der Kraak, and A. P. Farrell. 2008. Physiological correlates of coastal arrival and river entry timing in late summer Fraser River sockeye salmon (*Oncorhynchus nerka*). *Behavioral Ecology* 19:747-758.
- Young, J. L., Z. B. Bornik, M. L. Marcotte, K. N. Charlie, G. N. Wagner, S. G. Hinch, and S. J. Cooke. 2006. Integrating physiology and life history to improve fisheries management and conservation. *Fish and Fisheries* 7:262-283.
- Young, J. L., S. G. Hinch, S. J. Cooke, G. T. Crossin, D. A. Patterson, A. P. Farrell, G. Van der Kraak, A. G. Lotto, A. Lister, M. C. Healey, and K. K. English. 2006. Physiological and energetic correlates of en route mortality for abnormally early migrating adult sockeye salmon (*Oncorhynchus nerka*) in the Thompson River, British Columbia. *Canadian Journal of Fisheries and Aquatic Sciences* 63:1067-1077.
- Cooke, S. J., G. T. Crossin, D. A. Patterson, K. K. English, S. G. Hinch, J. L. Young, R. F. Alexander, M. C. Healey, G. Van der Kraak, and A. P. Farrell. 2005. Coupling non-invasive physiological assessments with telemetry to understand inter-individual variation in behaviour and survivorship of sockeye salmon: development and validation of a technique. *Journal of Fish Biology* 67:1342-1358.

Cooke, S. J. and J. L. **Young**. 2003. Why fisheries management professionals should not be too focused on fishing. Fisheries 29: 40.