

Emily Rubidge, MSc

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EDUCATION

- **September 2005 – Present:** Ph.D. Candidate, University of California, Berkeley, Department of Environmental Science, Policy and Management
- **August 2003:** M.Sc. University of British Columbia, Department of Zoology
- **June 1999:** B.Sc. Biology Co-op, with distinction, University of Victoria, Canada

ACADEMIC APPOINTMENTS

Research Assistant, Dept. of Env. Sci., Policy & Mgmt., University of California, Berkeley
September 2004 – February 2005
Conservation genetics study of the endangered marbled murrelet (*Brachyramphus marmoratus*) in coastal California

Graduate Student, Dept. of Zoology, University of British Columbia, B.C., Canada
(Supervisor: Dr. Eric B. Taylor)
September 2000 -August 2003
Designed and implemented research project examining hybridization between introduced rainbow trout and the threatened native cutthroat trout in southeastern British Columbia.

Teaching Assistant, Dept. of Zoology, University of British Columbia, B.C., Canada
Fall 2000
Course: 1st-year biology
Spring 2001
Course: 2nd-year comparative vertebrate zoology
Fall 2001
Course: 2nd-year invertebrate zoology course.
Spring 2002
Course: upper-level undergraduate evolutionary genetics course.

Research Assistant, Dept. of Zoology, University of British Columbia, B.C., Canada
May-August 2000
Microsatellite DNA analysis of Yellowfin rainbow trout populations in upper Arrow Lake, British Columbia.

WORK EXPERIENCE

Fish Ecologist, Conservation International, Phnom Penh, Cambodia
November 2003-April 2004
Member of ecological research and monitoring team conducting biodiversity surveys in the Central Cardamom Protected Forest of southwestern Cambodia, with a specific focus on

endangered fish species. Also involved in community-based natural resource management planning.

Independent Consultant, Vancouver, B.C.

June 2001-May 2003

Contracts included: genetic identification of fish samples, co-authorship of provincial (British Columbia) and federal (Canada, COSEWIC) westslope cutthroat trout species status report.

Lab Technician, West Vancouver Laboratory, Department of Fisheries and Oceans, Government of Canada.

March-April 2000

Genetic heritability testing and risk-assessment of transgenic coho salmon

Lab Technician, Seastar Biotech Inc., Victoria, B.C., Canada

May-December 1999

Population genetic analysis on a variety of projects including: genetic structure of coho salmon populations in the Atnarko River watershed, examination of genetic diversity of British Columbia's central coast sockeye salmon populations, and RFLP analysis of Fraser River white sturgeon mitochondrial DNA.

Ichthyology Collections Assistant, Royal British Columbia Museum, Victoria, B.C., Canada

January-April, 1999

Updated museum ichthyology collection database and assisted the ichthyology curator in researching and classifying rare fish species.

SCIENTIFIC PUBLICATIONS

Rew, M.B., Peery, Z., Beissinger, S., Berube, M., Lozier, J., **Rubidge E.**, and Pasboll, P. (2006) Cloning and characterization of twenty-nine tetranucleotide and two dinucleotide polymorphic microsatellite loci from the endangered marbled murrelet (*Brachyramphus marmoratus*). *Molecular Ecology Notes*, **6**:241-244.

Rubidge, E. and Taylor, E.B. (2005) An analysis of spatial and environmental factors influencing hybridization between native westslope cutthroat trout (*Oncorhynchus clarki lewisi*) and introduced rainbow trout (*O. mykiss*) in the upper Kootenay River drainage, British Columbia. *Conservation Genetics*, **6**: 369-384 (MSc Work).

Rubidge, E. and E.B. Taylor. (2004) Hybrid zone structure and the potential role of selection in hybridizing populations of introduced rainbow trout (*Oncorhynchus mykiss*) and native westslope cutthroat trout (*O. clarki lewisi*). *Molecular Ecology* **13**: 3735-3749

Rubidge, E. (2003) Molecular analysis of hybridization between native westslope cutthroat trout (*Oncorhynchus clarki lewisi*) and introduced rainbow trout (*O. mykiss*) in southeastern British Columbia. M.Sc Thesis. University of British Columbia.

Smith, C. T., R. J. Nelson, S. Pollard, **E. Rubidge**, S. McKay, J. Rodzen, B. May, and B. Koop. (2002) Population genetic analysis of white sturgeon (*Acipenser transmontanus*) in the Fraser River. *Journal of Applied Ichthyology* **18**: 307-312

Krebs, C. J., E. Bredesen, A. Coombs, R. Daniel, R. de Graaf, A. Elz, A. Hall, L. Hooper, T. Hoover, A. Janmaat, L. Mehranvar, **E. Rubidge**, G. Slooten, P. Tamkee, and K. Welstead. (2001) Graphical Presentation of Data in the Journal *Ecology*. *Bulletin of the Ecological Society of America*: 247-248.

Rubidge, E., P. Corbett, and E. B. Taylor. (2001) A molecular analysis of hybridization between native westslope cutthroat trout and introduced rainbow trout in southeastern British Columbia, Canada. *Journal of Fish Biology* **59**:42-54.

TECHNICAL REPORTS (select)

Rubidge, E. 2004. Summary of the dragon fish trade (*Scleropages formosus*, Schlegel & Müller 1844) in rivers of the Cardamom Mountains: recommendations for management and conservation. Report prepared for Conservation International: Cambodia Program. 5pp.

Rubidge, E. 2004. Preliminary assessment of fish diversity in three river systems of the Cardamom Mountain Protected Forest, southwestern Cambodia. Report prepared for Conservation International: Cambodia Program. 14 pp.

Costello, A. and **E. Rubidge**. May 2005. COSEWIC status report on cutthroat trout (*Oncorhynchus clarki*). Report prepared for the Committee on the Status of Endangered Wildlife in Canada (COSEWIC)

CONFERENCE PRESENTATIONS

Oral Presentations:

Rubidge, E., P. Corbett, and E.B. Taylor. July 2001. Last stand in the Kootenays: Genetic analysis of hybridization between introduced rainbow trout and native westslope cutthroat trout in the East Kootenay Region of B.C. **Fisheries Society of the British Isles Annual Conference (FSBI). Leicester, UK.**

Rubidge, E., and E.B. Taylor. February 2001. Hybridization between native westslope cutthroat trout and introduced rainbow trout in the Upper Kootenay River system. **Pacific Ecology Conference, Bamfield, B.C.**

Poster Presentations:

Rubidge, E., Patton, J., Conroy, C. and Moritz, C. September 2005. Distribution and genetic diversity of chipmunks in Yosemite National park: a historical and contemporary perspective. **Conservation Genetics Symposium, September 2005, Asilomar, California.**

Rubidge, E and E.B. Taylor. January 2002. Genetic analysis of hybridization between introduced rainbow trout and native westslope cutthroat trout in the East Kootenay

Region of B.C. **Canadian Conference for Fisheries Research (CCFFR).**
Vancouver, British Columbia.

Rubidge, E and E.B. Taylor. April 2002. Genetic consequences of introduced rainbow trout on native westslope cutthroat trout populations in southeastern B.C. **Zoology Graduate Students Society Annual Symposium, UBC, Vancouver, B.C. Awarded best Poster at Symposium.**

AWARDS AND SCHOLARSHIPS

- National Science and Engineering Research Council of Canada (NSERC) Post-graduate scholarship (PGS-D) 2005-2008.
- McClean Fraser Memorial Scholarship 2001, University of British Columbia
- Fisheries Society of the British Isles Travel Grant 2001, Fisheries Society of the British Isles
- Bamfield Marine Science Centre Entrance Scholarship 1998, Bamfield Marine Science Centre

REFERENCES (more available upon request)

Dr. Justin Brashares, Assistant Professor, Department of Environmental Science, Policy, and Management, University of California, Berkeley. Phone: (510) 643-6080; email: brashares@nature.berkeley.edu

Dr. Craig Moritz, Professor and Director, Museum of Vertebrate Zoology, University of California, Berkeley. Phone (510) 643-7711; email: craigm@berkeley.edu

Dr. Eric B. Taylor, Professor, Department of Zoology, University of British Columbia, Vancouver, Canada. Phone: (604) 822-9152; email: etaylor@zoology.ubc.ca

Dr. Sarah P. Otto, Professor, Department of Zoology, University of British Columbia, Vancouver, Canada. Phone: (604) 822-2778; email: otto@zoology.ubc.ca