

GORDON WILLIAM HOLTGRIEVE

Curriculum Vitae

Ph.D. candidate
University of Washington
School of Aquatic and Fishery Sciences & Department of Biology
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EDUCATION

- M.S. Stanford University**, Earth Systems Program, 2001.
Thesis: Distribution and Abundance of Native and Non-Native Fishes in San Francisquito Creek, California.
Major advisor: Dr. Carol Boggs.
- B.S. Stanford University**, Earth Systems Program, 1999.
Track: Biosphere.
- Las Positas College**, Biology major, transferred 1997.

HONORS AND AWARDS

Fellowships/Scholarships

- University of Washington School of Aquatic & Fishery Sciences Research Assistant Fellowship, 2008 – 2009 (\$11,000).
- Environmental Protection Agency (EPA) Science to Achieve Results (STAR) Fellowship, 2004 – 2007 (\$107,000).
- Achievement Rewards for College Scientists Award, 2003 – 2006 (\$15,000)
- University of Washington Graduate School Top Scholar Award, 2003 (\$4,600).
- Las Positas College Earth Sciences Scholarship, 1996 (\$300).
- Nissen Family Scholarship, 1996 (\$300).
- Las Positas College Classified Senate Scholarship, 1996 (\$300).

Awards

- NSF Graduate Research Fellowship Program Honorable Mention, 2004.
- Stanford University Centennial Teaching Assistant Award, 2000.
- Stanford University Dept. of Biological Sciences Excellence in Teaching Award, 1999.
- Earth Systems Program Academic Excellence Award, 1999.
- Las Positas College Dean's List, 1995 – 1997.

Small Grants

- Alexander Goetz Instrument Support Program Award, Analytical Spectral Devices Inc., Boulder CO., 2008 (\$500)
- Travel Grant, School of Aquatic and Fishery Sciences, University of Washington, 2007 (\$300).
- Department of Biology Travel Grant, University of Washington, 2006 (\$600).
- Undergraduate Research Opportunities, Stanford University, 1998 (\$400).

POSITIONS HELD

Ph.D. candidate, University of Washington, School of Aquatic and Fishery Sciences & Department of Biology, 2005 – present

Graduate assistant, 2003 – 2005

Dissertation topic: Ecosystem effects of salmon as vectors of nutrients, energy, and organic matter. Advisor: Daniel E. Schindler.

Research Technician

- Hawaii Ecosystems Projects, Stanford University, 2000 – 2003. Supervisors: Pamela A. Matson & Peter M. Vitousek
- Center for Conservation Biology, Stanford University, 1998 – 2000. Supervisor: Alan E. Launer.
- Winter-Run Chinook Salmon Captive Broodstock Program, California Academy of Sciences, 1996 – 1998. Supervisor: David White.

Adjunct Teaching Faculty

- Introduction to the Science of Biology, Las Positas College, Livermore, CA, Spring 2002.

Teaching/Course Assistant

- Introductory Biology for Majors, Department of Biology, University of Washington, Winter 2004.
- Jasper Ridge Biological Preserve Docent Class, Department of Biological Sciences, Stanford University, Winter & Spring 2000.
- Field Studies in Earth Systems, Earth Systems Program, Stanford University, Spring 2000.
- Introduction to Earth Systems, Earth Systems Program, Stanford University, Winter 1999.
- Geosphere, Earth Systems Program, Stanford University, Autumn 1999.
- Core Biology Lab, Department of Biological Sciences, Stanford University, Spring 1999.

PUBLICATIONS

Published articles

Holtgrieve, G. W., P. K. Jewett, and P. A. Matson. (2006) Variations in soil N cycling and trace gas emissions in wet tropical forests. *Oecologia* 146:584-594.

Holtgrieve, G. W. (2006) Species account: Sudden oak death. In Boersma, PD, SH Reichard, and A van Buren (eds), *Invasive Species in the Pacific Northwest*. University of Washington Press, Seattle, WA.

Moore, J. W., D. E. Schindler, J. L. Carter, J. Fox, J. Griffiths, and **G. W. Holtgrieve**. 2007. Biotic control of stream fluxes: spawning salmon drive nutrient and matter export. *Ecology* 88 (5): 1278-1291.

Papers in review

Holtgrieve, G. W., and D. E. Schindler. Large predators and biogeochemical hotspots: Brown bear (*Ursus arctos*) predation on salmon alters nitrogen cycling in riparian soils. *Ecosystems*.
S. R. Alin, C. I. Salimon, J. E. Richey, A. Krusche, M. F. Rasera, **G. W. Holtgrieve**, and A. Snidvongs. Carbon dioxide flux and transfer velocity concentration measurements in the Amazon and Mekong river basins (Brazil, Southeast Asia). *J. of Geophysical Research–Biogeochemistry*

Papers in prep

Holtgrieve, G. W., D. E. Schindler, D. T. Selbie, P. R. Leavitt, B. P. Finney, and I. Gregory-Eaves. Latitudinal variation in nitrogen loading to coastal North Pacific lakes as inferred from nitrogen stable isotopes. Target journal: *Biogeochemistry*.

- Holtgrieve, G. W.**, D. E. Schindler, C. Gowell, and C. P. Ruff. Fertilization versus excavation: Effect of salmon subsidies depends on geomorphology. Target journal: *Ecology*.
- Holtgrieve, G. W.**, D. E. Schindler, P. D. Quay, S. R. Alin, and J. W. Moore. Keystone species and ecosystem metabolism: reconsidering the role of salmon in streams. Target journal: *Oikos*.

Reports

- Holtgrieve, G. W.** and A. E. Launer. (2000) Fishes and Amphibians of the San Francisquito Creek and Matadero Creek Watersheds, Stanford University: Report on 1998 & 1999 Field Activities. Center for Conservation Biology, Stanford, CA, 2000.
- Holtgrieve, G. W.** (2000) *Fishes of San Francisquito Creek*. Jasper Ridge Biological Preserve Docent Manual, Stanford, CA.
- Holtgrieve, D. G. and **G. W. Holtgrieve**. (1995) *Physical Stream Survey of Butte Creek, Butte County, CA*. Technical report prepared for the Nature Conservancy and California State University, Chico, CA.

PRESENTATIONS

- Holtgrieve, G. W.**, D. E. Schindler, D. T. Selbie, P. R. Leavitt, B. P. Finney, and I. Gregory-Eaves. (2008) Latitudinal variation in nitrogen loading to coastal North Pacific lakes as inferred from nitrogen stable isotopes. To be presented at *Ecological Society of America* annual meeting.
- Holtgrieve, G. W.**, D. E. Schindler, and P. K. Jewett. (2007) When bears sit in the woods: Brown bear (*Ursus arctos*) feeding on salmon alters N cycling in riparian soils. *Ecological Society of America* annual meeting.
- Holtgrieve, G. W.**, D. E. Schindler, and S. R. Alin. (2007) Keystone species and ecosystem metabolism: reconsidering the role of salmon in streams. *American Society for Limnology and Oceanography* aquatic sciences meeting.
- Holtgrieve, G. W.** and D. E. Schindler. (2006) Marine-derived nutrients and ecosystem metabolism: reconsidering the role of salmon in streams (poster). *EPA STAR Fellows Conference*.
- Holtgrieve, G. W.**, D. E. Schindler, and S. R. Alin. (2006) Marine-derived nutrients and ecosystem metabolism: reconsidering what salmon do to streams. *North American Benthological Society* annual meeting.
- Alin, S.R., C. Salimon, J. Richey, A. Krusche, **G. Holtgrieve**, and V. Neu. (2006) Carbon dioxide flux and transfer velocity measurements in the Amazon (Brazil) and Mekong (Southeast Asia) river basins. *American Geophysical Union* fall meeting.
- Holtgrieve, G. W.** and D. E. Schindler. (2006) Marine-derived nutrients and ecosystem metabolism: reconsidering the role of salmon in streams. *University of Washington Biology Department Graduate Student Symposium*.
- Holtgrieve, G. W.** and D. E. Schindler. (2006) Marine-derived nutrients and ecosystem metabolism: reconsidering the role of salmon in streams. *University of Washington School of Aquatic and Fishery Sciences Graduate Student Symposium*.
- Holtgrieve, G. W.**, S. R. Loarie, and A. E. Launer. (2003) Influence of invasive species and cumulative watershed effects on threatened California red-legged frog (*Rana aurora draytonii*) distribution in a suburban stream. *Society for Conservation Biology* annual meeting.
- Holtgrieve, G. W.**, S. R. Loarie, and A. E. Launer. (2003) Influence of invasive species and cumulative watershed effects on threatened California red-legged frog (*Rana aurora draytonii*) distribution in a suburban stream. *Bay Area Conservation Biology Society Symposium*.

S. R. Loarie, **G. W. Holtgrieve**, and A. E. Launer. (2003) Chinese Mitten Crabs in San Francisco Creek: Tracking the invasion. *Bay Area Conservation Biology Society Symposium*.

Holtgrieve, G. W., A. E. Launer, and S. R. Loarie. (2002) Conservation Planning in a Suburban Landscape: Lessons from the Silicon Valley (poster). *Ecological Society of America* annual meeting.

INVITED LECTURES

Would We Recognized a Sustainable Fishery if We Saw One? University of Oregon. October 25, 2006. Based on Bevans Series lecture by D. Schindler.

Introduction to Aquatic Chemistry, University of Washington. October. 4, 2006.

Fish out of water: how bears and salmon affect stream ecosystems. Achievement Rewards for College Scientists spring luncheon. April 14, 2006.

The Carbonate System in Freshwaters, University of Washington. October 25, 2005.

Oxidation-Reduction Reactions in Lakes, University of Washington. October 27, 2004.

Fishes of San Francisco Creek, Stanford University. May 24, 1999; May 19, 2000.

Global Environmental Change, Las Positas College. September 8, 1999.

Biodiversity, Las Positas College. December 8, 1998.

Behind the Scenes at the Steinhart Aquarium, California Academy of Sciences. October 17, 1996; March 12, 1997; September 20, 1997; September 16, 1998.

Aquarium Systems, Las Positas College. September 10, 1997; February 4, 1998; September 9, 1998.

PROFESSIONAL SERVICE

- Reviewer for *Ecology* (2007 & 2008), *J. of Atmospheric Environment* (2007), *Ecosystems* (2004).
- Treasurer, Fisheries Interdisciplinary Network of Students (FINS), 2007 – present.
- Reviewer, *Society for Conservation Biology* contributed oral and poster presentations for the 2003 annual meeting.
- Jasper Ridge Biological Preserve Docent, Stanford University, CA, 1998–2003.

MEMBERSHIPS

- American Society for Limnology and Oceanography
- Ecological Society of America