

RESUME - GREGORY A. GREENE

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660 Boitano St, Williams Lake, BC V2G 1W2

EDUCATION: **Doctor of Philosophy** – Forest & Fire Ecology (Forestry), UBC 2019 (Expected)
 Master of Science – Forest & Fire Ecology (Geography), UBC 2011
 Bachelor of Science – Geog. Inf. Science (Geography), Cal Poly Pomona 2008
 Minor – Interdisciplinary GIS Applications
 Minor – Archaeology (Anthropology)

PROFESSIONAL ASSOCIATIONS: British Columbia Institute of Agrologists – P.Ag (App. submitted May 2018)
 Association of British Columbia Forest Professionals – FIT

EXPERIENCE:

5+ years of field experience in natural resource management.
8+ years of experience in fire ecology.
2 years of experience in wildland firefighting.
7 years acquiring knowledge and expertise in the principles of ecosystem restoration (ER).
8+ years building and maintaining partnerships with collaborators.

Field Tech & Researcher – Fire Ecology, Vegetation Dynamics & Tree Competition

University of British Columbia, Vancouver
Sept 2009 - present

- Planned and implemented a complex ER-based research project (2012-present) to reconstruct fire history, logging history, vegetation dynamics, and inter-/intra-species competition in dense, infilled Douglas-fir and ponderosa pine stands.
- Conducted post-thinning and pre- & post-burn assessments, and assisted in the hand ignition of a prescribed fire in the Westside Unit of the Vaseux-Bighorn National Wildlife Area, near Okanagan Falls, BC (2013).
- Reviewed the site prescription and drafted a burn plan for the Wilmer Unit of the Columbia National Wildlife Area (2018).
- Conducted literature reviews and participated in meetings and workshops to identify and anticipate current and future research needs.
- Developed and implemented multiple research proposals.
- Consulted and collaborated with NGOs, industrial partners, First Nations and provincial government staff.
- Supervised & trained lab and field crews (1-15 ppl) to conduct surveys, establish research plots, safely operate field equipment (e.g., chainsaws), process samples, and analyze data.
- Managed research budgets of \$10K – \$20K (since 2010).
- Prepared and published research articles, field sampling procedures and technical reports.
- Presented research findings and provided professional advice in private meetings, during field tours, and at provincial, national, and international conferences and symposiums.
- Completed graduate coursework in ecosystem restoration, landscape ecology, vegetation dynamics, research methods, statistics (linear/non-linear) and advanced statistical methods in GIS.
- Taught labs, advised students on coursework, proctored examinations, and marked exams and assignments in grassland ecology, fire ecology, GIS, climatology and biogeography courses.

Research Assistant, UBC Alex Fraser Research Forest (AFRF), Williams Lake, BC

June 2016 – Present

- Developed and implemented nationally recognized Fuel Hazard Assessment sampling protocols to quantify pre- & post-harvest surface and aerial fuel loading.

- Wrote harvest plans and assisted with the planning of fuel treatments in WUI areas adjacent to the City of Williams Lake.
- Worked as a Forester in Training under the supervision of Ken Day, and learned harvest techniques for fuel reduction treatments in Mule Deer Winter Range.
- Conducted Vegetation Resource Inventory plot sampling for industrial research purposes.
- Performed forest mensuration and operations duties, including timber cruising, cutblock layout, skid trail layout, forestry road layout, regeneration surveys, planting quality assessments, Douglas-fir beetle surveys, and pile burning.
- Interviewed & trained staff, and supervised field crews (1-4 ppl).

Pacific Institute for Climate Solutions (PICS) Intern, Government of B.C., Kootenay Lake & Rocky Mtn. Forest Districts, ER Program & Science Team
April 2012 – Oct. 2012

- Planned and implemented a research project to process data from operational installations, research trials, and monitoring projects associated with Ecosystem Restoration (ER) treatments conducted in the East Kootenays since 1997.
- Designed the provincial ERPro database to house ER Effectiveness Monitoring and Range Inventory (RI) data.
- Developed Intensive Monitoring protocols, and co-developed Routine Monitoring protocols, in collaboration with ER Program and Science Team members.
- Published ER Monitoring protocols in provincial technical reports.
- Participated in ER Program & Science Team meetings to identify research gaps and share project findings.
- Performed two weeks of Biogeoclimatic Ecosystem Classification (BEC) field sampling with Deb McKillop, Research Ecologist in the Kootenay/Boundary Region.

Rangeland Technician / Wildland Firefighter – Department of the Interior, U.S. Fish & Wildlife Service, Bosque del Apache National Wildlife Refuge, San Antonio, New Mexico, USA

2006 to 2008 – Three 6 month seasonal terms

- Worked as part of a team in direct fireline suppression activities, planning and implementing prescribed fires, maintaining rangeland and refuge infrastructure, and removing invasive species.
- Managed the refuge GIS geodatabase and created maps for the planning of prescribed burns, habitat classification, property inventory, and various other activities for wildlife refuges throughout the state of New Mexico.

Wildland Fire GIS Intern – Department of the Interior, U.S. Fish & Wildlife Service, Sevilleta National Wildlife Refuge, Socorro, New Mexico, USA

June 2005 – Sep. 2005

- Worked directly for the Region 2 Prescribed Fire Specialist to assist with prescribed fire planning.
 - Created maps for the planning of prescribed burns, habitat classification, property inventory, and various other activities for wildfire and wildlife management throughout the state of New Mexico.
 - Created and managed the refuge GIS geodatabase.
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**Fire Ecology
Publications:**

Greene, G.A. and Daniels, L.D. 2017. Spatial Interpolation and Mean Fire Interval Analyses Quantify Historical Mixed-Severity Fire Regimes. *International Journal of Wildland Fire*, 26:136-147.

Greene, G.A. 2011. Historical Fire Regime of the Darkwoods: Quantifying the Past to Plan for the Future. MSc Thesis, University of British Columbia, Vancouver, British Columbia, Canada.

**ER & Fire
Ecology
Research
Reports:**

Daniels, L.D., R.W. Gray, B. Brett, P.D. Pickell, M.F.J. Pisaric, R.D. Chavardès, G.A. Greene, M.H. Marcoux and V. Comeau. 2017. Disturbance regimes in the maritime to subarctic forests of the south coast of British Columbia: Status of knowledge and understanding. *Report to the British Columbia Ministry of Forests, Lands and Natural Resource Operations*, Victoria, BC. Submitted March.

Harris, B.J.R. and G.A. Greene. 2015. "Ecosystem Restoration Program – Routine Monitoring Protocols." *Report to the B.C. Ministry of Forests, Lands and Natural Resource Operations*. Submitted March 19.

Greene, G.A. and B.J.R. Harris. 2015. "Ecosystem Restoration Program – Intensive Monitoring Protocols." *Report to the B.C. Ministry of Forests, Lands and Natural Resource Operations*. Submitted February 20.

Daniels, L.D., H. Erasmus, B. Forge, G.A. Greene and S. Lavalée. 2014. "Monitoring fire intensity and severity: 2013 prescribed burn at the Westside Unit, Vaseux-Bighorn National Wildlife Area." *Report to the Canadian Wildlife Service*. Submitted October.

Greene, G.A., O. Villemare-Cote and L.D. Daniels. 2014. "Climate change, wildfire, and landscape homogenization in western Canada." *Report to the Rocky Mountain Trench Society*. Submitted March 31.

Greene, G.A. and L.D. Daniels. 2010. "Historical Fire Regime of the Darkwoods: 1449-2010 – A Preliminary Report." *Report to the Nature Conservancy of Canada and Kalesnikoff Lumber Co. Ltd.* Submitted December 9.

Presentations:

Daniels, L.D., W. Brookes, R.D. Chavardès, G.A. Greene, M-A.F. Leclerc, A.M. Pogue. 2018. "Tree-rings, landscape resilience and adaptation to the wicked problem of wildfire." *Ecological Society of America Annual Meeting*. Oral. August 5-10, New Orleans, LA.

Greene, G.A. and L.D. Daniels. 2016. "How to Degrade our Dry Forests: High-grade then Suppress All Fires for a Century." *Wildland Fire Canada National Conference*. Poster. October 25, Kelowna, BC.

Greene, G.A. and L.D. Daniels. 2016. "Historic Wildfires: The Space-Time Continuum." *Wildland Fire Canada National Conference*. Oral. October 25, Kelowna, BC.

Greene, G.A. and L.D. Daniels. 2016. "How to Degrade our Dry Forests: High-grade then Suppress All Fires for a Century." *Southern Interior Silviculture Committee Meeting*. Illustrated Poster Session and Discussion. February 24, Kamloops, BC.

L.D. Daniels, A. Pogue, R.D. Chavardès, M.A. Leclerc, and G.A. Greene. 2016. The Wildfire Trifecta: Forests, Fuels, and Climate. *Southern Interior Silviculture Committee Meeting*. Illustrated Poster Session and Discussion. February 24, Kamloops, BC.

Greene, G.A. and L.D. Daniels. 2014. "Historic Wildfires: The Space-Time Continuum." *Foothills Research Institute – Healthy Landscapes Symposium*. Oral. December 7-8, Edmonton, AB.

Greene, G.A. and L.D. Daniels. 2014. "Fire-Resilient Forests in Dry Ecosystems: The Effects of Fire Exclusion on Grasslands and Mixed-Conifer Forests in the Southern Rocky Mountain Trench." *Rocky Mountain Trench Natural Resources Society – Burning Questions Seminar*. Oral. May 21, Cranbrook, BC.

- Greene, G.A. and L.D. Daniels. 2013. “Fire-Scarred Edges and Pie-Slice Wedges: Examining the Success of the Partial Cross-Section Method in Obtaining Fire-Scar Information.” *AmeriDendro Annual Meeting*. Poster. July 19, Tucson, AZ.
- Greene, G.A. and L.D. Daniels. 2012. “Mixed Severity Fires in Montane Forests: The Darkwoods of British Columbia.” *Association for Fire Ecology - 5th International Fire Ecology and Management Congress*. Oral. December 6, Portland, OR.
- Greene, G.A. and L.D. Daniels. 2012. “Mixed Severity Fires in Mountain Forests: The Darkwoods of BC.” *Wildland Fire Canada National Conference*. Oral. October 4, Kananaskis, AB.
- Greene, G.A. 2012. “Managing for Fire Resilient Forests in the Nature Conservancy of Canada’s ‘Darkwoods’ – A Fire Ecology Perspective.” *Forest Sciences Departmental Seminar*. Oral. March 7, University of British Columbia, Vancouver, BC.
- Greene, G.A. and L.D. Daniels. 2011. “Fire History of the Darkwoods: Quantifying the Past to Plan for the Future.” *Association of American Geographers Annual Meeting*. Oral. April 13, Seattle, WA.

**Contributions
to ER & Fire
Ecology
Education &
Outreach:**

Field Tours

- “Dry Forest Degradation.” 2016. (Sponsor) Rocky Mountain Trench Ecosystem Restoration Program. May 13, Cranbrook, BC.
- “Waldo North Grassland Restoration Monitoring Program.” 2015. (Sponsor) Rocky Mountain Trench Ecosystem Restoration Program. June 24, Cranbrook, BC.

Videos

- “Crowns & Roots, Burns & Blades: Restoring the Grasslands and Open Forests of the Rocky Mountain Trench.” 2015. (Sponsor) Rocky Mountain Trench Ecosystem Restoration Program. (Director) J. Galdamez, (Writer) T. Barnes. Released January 15.
<<http://vimeo.com/thinking/er>>

Workbooks

- “Grade 8 Workbook – Crowns & Roots: Restoring Grasslands.” 2015. (Sponsor) Rocky Mountain Trench Ecosystem Restoration Program. Published January 15.
- “Grade 7 Workbook – Crowns & Roots: Restoring Grasslands.” 2015. (Sponsor) Rocky Mountain Trench Ecosystem Restoration Program. Published January 15.

Media

- Barnes, T. 2016. “If This Tree Could Talk.” *Canadian Rockies Annual*, 1:20-21.
- Bond, S., and Harris, B.J.R. 2013. “Tree-Rings Tell All.” *Cranbrook Townsman Newspaper*. Published September 5.
<http://www.cranbrooktownsman.com/breaking_news/222527941.html>

Statements:

- **Currently hold a Valid Class 5 BC Driver’s License (can drive manual transmission)**
- **I meet the safety standards of Work Safe BC**
- **Proficient in the use of ATVs, two-way radios, GPS, mobile data collection devices, and mobile GIS applications**
- **Willing to travel frequently by foot/vehicle/air and to remote locations in inclement for work**
- **References available upon request**