

## RESUME - GREGORY A. GREENE

Email: map.n.trowel@gmail.com  
Telephone: (250)392-2207 (w) or (778)918-0609 (c)  
660 Boitano St, Williams Lake, BC V2G 1W2

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**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 (Application submitted)  
  Association of British Columbia Forest Professionals – FIT

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### EXPERIENCE:

14 years of experience planning, implementing and conducting research projects. Specializing in forest and range ecology, ecosystem restoration, disturbance ecology and vegetation dynamics.

#### **Researcher & Graduate Teaching Assistant**

University of British Columbia, Vancouver

Sept 2009 - present

- Conducted literature reviews and participated in meetings to identify and anticipate current and future research needs.
- Developed multiple research proposals, including safety protocols and Research Hazard Analyses.
- Collaborated on research with NGOs, industrial partners, First Nations and provincial government staff.
- Supervised and 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).
- Applied for and received multiple grants and academic awards.
- Published research findings in peer reviewed journals and technical reports.
- Presented research findings at provincial, national, and international conferences and symposiums.
- Completed graduate coursework in research methods, ecosystem restoration, landscape ecology, statistics (linear/non-linear), vegetation dynamics 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.
- Taught lessons in dendrochronology, climate change, fire adapted ecosystems, mountain pine beetles and orienteering to primary education (K-8) students.

#### **Research Assistant, UBC Alex Fraser Research Forest (AFRF)**

June 2016 – Present

- Developed and implemented Fuel Hazard Assessment sampling protocols to quantify pre- and post-harvest surface fuel loading.
- Conducted Vegetation Resource Inventory plot sampling for industrial research purposes.
- Performed forest mensuration and operations duties, including timber cruising, skid trail layout, forestry road layout, regeneration surveys, planting quality assessments, Douglas-fir beetle surveys, and pile burning.
- Designed and managed the AFRF GIS database.
- Managed ArcPad GPS data on Trimble GPS devices, and ArcGIS Collector data on AFRF mobile devices (e.g., phones, tablets).

**Pacific Institute for Climate Solutions (PICS) Intern**, Government of British Columbia, Kootenay Lake & Rocky Mountain Forest Districts  
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.

**Survey Coordinator – Private Consultant**, U. of California Los Angeles  
Sisupalgarh Fortification, Bhubaneswar, Orissa, India  
Dec. 2006 – Feb. 2007

- Planned and implemented a research project to survey and map a 2,000 year old, ~1km x 1km fortification.
- Collaborated with the geophysical testing team to record ground-penetrating radar survey boundaries, and process gradiometer images.
- Trained team members and students in optimal data collection techniques, and to use Trimble GPS equipment.
- Published research findings in a peer reviewed journal.
- Presented research findings at a state conference.

**Research Assistant & GIS Consultant**, George Mason University  
Tano Origins Project – Burnt Corn Pueblo, Santa Fe, New Mexico, USA  
July 2005 – Nov. 2009

- Planned and implemented a research project to investigate the spatial and cosmological relationships of groundstone within the vicinity of the Burnt Corn Pueblo.
- Assisted with transect surveys, excavations, hand mapping, and completion of site forms.
- Published research findings in a peer reviewed monograph.
- Presented research findings at a national conference.

**Rangeland Technician / Wildland Fire Fighter** – Department of the Interior, U.S. Fish and Wildlife Service, Bosque del Apache National Wildlife Refuge, San Antonio, New Mexico, USA  
2006 to 2008 – 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.
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## 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.
- Greene, G.A. and P.O. Leckman. 2011. "The Burnt Corn Landscape." Burnt Corn Pueblo: *Conflict and Conflagration in the Galisteo Basin, AD 1250-1325*. (Eds). James E. Snead and Mark W. Allen. Anthropological Papers 74, University of Arizona Press, Tucson.
- Mohanty, R.K., M.L. Smith, T. Matney, A. Donkin and G.A. Greene. 2007. Archaeological research at Sisupalgarh 2007: An Early Historical city in Orissa. *Puratattva (Journal of the Indian Archaeological Society)*, 37:142-154.
- Greene, G.A. 2006. Article Review: "Mace, Ruth. Transitions Between Cultivation And Pastoralism In Sub-Saharan Africa." *Current Anthropology* August-October, 1993, Vol. 34(4):363-382. Public Anthropology Journal Archive Project. <<http://www.publicanthropology.org/Archive/Ca1993.htm>>
- Greene, G.A. 2006. Article Review: "Aswani, Shankar and Sheppard, Peter. The Archaeology and Ethnohistory of Exchange in Precolonial and Colonial Roviana." *Current Anthropology* December, 2003, Vol. 44(S):S51-S78. Public Anthropology Journal Archive Project. <<http://www.publicanthropology.org/Archive/Ca2003.htm>>

## 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 sub-maritime 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. Lavallee. 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. Villemaire-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 - 5<sup>th</sup> 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.
- Greene, G.A. 2008. “Topography Incarnate: Resurrecting an Ancient Indian Fortification.” *California Geographic Society Annual Meeting*. Poster. May 2, Chico, CA.
- Greene, G.A. 2007. “Grinding With a View: The Spatial Relationship Between Groundstone and Ceremony in the Galisteo Basin.” *Society for American Archaeology Annual Meeting*. Poster. April 17, Austin, TX.
- Leckman, P.O. and G.A. Greene. 2007. “Welcome to the Neighborhood: Visibility, Access, and Aggregation in the Burnt Corn Community.” *Society for American Archaeology Annual Meeting*. Poster. April 17, Austin, TX.
- Allen, M.W. and G.A. Greene. 2006. “Archaeological Investigations at Several Springs Sites in the West-Central Mojave Desert: Results and Plans.” *Great Basin Anthropological Conference*. Oral. October 21, Las Vegas, NV.
- Greene, G.A. 2005. “Wireless Sensor Monitoring for Electric Power Networks: Techniques via GIS.” *GIS & Engineering Expo*. Poster & Oral. May 20, Pomona, CA.
- Greene, G.A., A. Alhambra, J. Fregoso, B. Luong, C. Ivanescu, and N. Sandoval. 2005. “An Evaluation of Cal Poly Pomona’s Emergency Evacuation Plan (EEP) using GIS.” *Engineering Symposium*. Oral. May 20, Pomona, CA.

## 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](http://www.cranbrooktownsman.com/breaking_news/222527941.html)>

## Grants & Awards

- 2016-‘17. UBC Research Forest Graduate Intern Award. (\$66,000)
- 2013-‘15. NSERC IPS Grant. (\$73,000)
2012. Association for Fire Ecology TREE Grant. (\$500)
2012. Adrian Weber Memorial Scholarship in Forest Ecology. (\$475)
2012. Mary and David Macaree Fellowship. (\$1,525)
2012. Pacific Institute for Climate Solutions Award. (\$10,000)
- 2011-‘14. Faculty of Forestry Graduate Award. (\$25,000)
2010. MITACS Grant. (\$15,000)
2008. California Geographic Society: *Student Travel Award*. (\$150)
2007. Alumni Association Scholarship: *Outstanding Leadership and Campus Involvement*. (\$1,500)
2006. David Abbott Swenson Scholarship: *Excellence in Geography*. (\$850)
2006. Cal Poly Pomona's Anthropological and Geographical Societies: *Most Active Member*.
2005. Cal Poly Pomona's *Service Learning Scholarship* for applying GIS as a public service. (\$800)
2005. Student Conservation Association's *Educational Award*. (\$1,000)

## Statements:

- **Currently hold a Valid Class 5 BC Driver's License (can drive manual transmission)**
- **I meet 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 for work**
- **References available upon request**