

Appointment Status

Associate Professor

Geography, Arts and Sciences, Queen's University at Kingston
Joint appointment with School of Environmental Studies
Full-time, Term, Associate Professor
Tenure Status: Tenure

Academic Background

- 2007/6 Doctorate, Environmental Biology and Ecology, University of Alberta
 Supervisor: David Hik, 2000/9 - 2006/11
- 1999/10 Master's Thesis, Geography & Environmental Studies, Wilfrid Laurier University
 Supervisor: Scott Slocombe, 1996/9 - 1999/7
- 1989/5 Bachelor of Environmental Studies (Hons.), Environment and Resource Studies,
 University of Waterloo

Work Experience

- 2015/7- Associate Professor
present Department of Geography and School of Environmental Studies, Faculty of Arts
 and Sciences, Queen's University at Kingston
 Full-time Joint Appointment, Term, Associate Professor
 Tenure Status: Tenure
- 2008/7- Assistant Professor
2015/6 Department of Geography and School of Environmental Studies, Faculty of Arts
 and Sciences, Queen's University at Kingston
 Full-time Joint Appointment, Term, Assistant Professor
 Tenure Status: Tenure-track
- 2007/5- Post-doctoral Research Associate
2008/6 Department of Biological Sciences, Faculty of Science, University of Alberta
 Full-time Appointment
 Tenure Status: Non-Tenure-track
- 2007/1- Sessional Lecturer
2008/4 Department of Biological Sciences, Faculty of Science, University of Alberta
 Part-time, Sessional
 Tenure Status: Non-Tenure-track

Distinctions, Awards and Credentials

- 2013/9 - 2014/4 Award for Teaching Excellence
 Queen's University at Kingston
 Presented annually to one professor in recognition of teaching
 excellence in the School of Environmental Studies
- 2013/09 - 2014/4 Julian Szeicz Excellence in Teaching Award

2011/9 - 2012/4	Queen's University at Kingston Student-selected award for Excellence in Teaching Award for Teaching Excellence Queen's University at Kingston Presented annually to one professor in recognition of teaching excellence in the School of Environmental Studies
2009/9 - 2010/4	Award for Teaching Excellence Queen's University at Kingston Presented annually to one professor in recognition of teaching excellence in the School of Environmental Studies
2007/8	Best Doctoral Paper (Biogeography) Association of American Geographers
2007/8	Best Doctoral Paper (Mountain Geography) Association of American Geographers

Professional Memberships

• Arctic Institute of North America	2000-present
• Ecological Society of America	2005-present
• Association of American Geographers	2005-present
• Canadian Society for Ecology and Evolution	2009-present
• Natural Areas Association	2014-present

Undergraduate Teaching and Course Development

2009/1-2013/12 (3x)	Instructor and Course Designer, Queen's University at Kingston Course Title: GPHY 318 Advanced Biogeography Course Level: Undergraduate
2009/1-2013/4 (5x)	Instructor and Course Designer, Queen's University at Kingston Course Title: GPHY 102 Earth System Science Course Level: Undergraduate
2011/1-2013/4 (2x)	Instructor and Course Designer, Queen's University at Kingston Course Title: GPHY 418 Landscape Ecology Course Level: Undergraduate
2009/1-2014/4 (5x)	Instructor and Course Designer, Queen's University at Kingston Course Title: ENSC 320 Wildlife Issues in a Changing World Course Level: Undergraduate
2009/9-2013/12 (5x)	Co-Instructor and Course Co-Designer, Queen's University at Kingston Course Title: ENSC430 Honour's Projects in Sustainability

Course Level: Undergraduate

Undergraduate Supervisory Experience

2014/5 - 2014/8 Principal Supervisor	Courtenay Jacklin, Bachelor's (In Progress) , Queen's University Student Degree Expected Date: 2016/6 Thesis/Project Title: Treeline ecology - summer research assistant
2014/5 - 2014/8 Principal Supervisor	Kaitlin Stansfield, Bachelor's (In Progress) , Queen's University Student Degree Expected Date: 2016/6 Thesis/Project Title: Forest ecotones of eastern Ontario - NSERC summer assistant
2013/5 - 2013/8 Principal Supervisor	Laura Kitchen, Bachelor's (Completed), Queen's University Thesis/Project Title: Forest-tundra ecology - summer research assistant Present Position: Organic farmer, Thornbury (Ontario)
2013/5 - 2014/4 Principal Supervisor	Allison Slater, Bachelor's Honours (Completed) , Queen's University Thesis/Project Title: Variation in alpine treeline ecotone vegetation in southwestern Yukon, Canada Present Position: M.Sc. Student, Trent University
2012/5 - 2012/8 Principal Supervisor	Diana Zeng, Bachelor's (Completed) , Queen's University Thesis/Project Title: Tundra vegetation change and caribou population dynamics - NSERC summer assistant Present Position: M.Sc. Student, Cornell University (New York)
2011/9 - 2012/4 Principal Supervisor	Evan Hall, Bachelor's Honours (Completed) , Queen's University Thesis/Project Title: Group Size, Habitat Use and Behavioral Ecology of Amazon River Dolphins in the Pacaya-Samiria National Reserve, Peru Present Position: Fisheries Biologist, Ontario Ministry of Natural Resources
2011/9 - 2012/4 Principal Supervisor	Claire Grenfell, Bachelor's Honours (Completed) , Queen's University Thesis/Project Title: Evaluating the representation of ecological features in a protected area network: A Gap Analysis study of the Yukon Present Position: M.Sc. Student, Bangor University (UK)
2011/5 - 2011/8 Principal Supervisor	Jayrin Yue, Bachelor's (Completed) , Queen's University Thesis/Project Title: Forest dynamics on the Frontenac Arch - NSERC summer research student Present Position: Environmental Advisor, Husky Energy, Calgary
2011/5 - 2012/4 Co-Supervisor	Sinead Murphy, Bachelor's Honours (Completed) , Queen's University Thesis/Project Title: Soil Properties of Forest-Grassland Ecotones in Southwest Yukon Present Position: M.Sc. Student, Simon Fraser University
2011/5 - 2012/4 Principal Supervisor	Lucas Brehaut, Bachelor's Honours (Completed) , Queen's University Thesis/Project Title: Local and Landscape Variables Influencing the use of Ponds by Wood Frogs in the Shakwak Valley, Yukon Present Position: M.Sc. Student, Queen's University
2011/5 - 2012/4 Co-Supervisor	Katriina O'Kane, Bachelor's Honours (Completed) , Queen's University Thesis/Project Title: Think Globally, Act Locally: The Small Scale Effects of Climate Change on Spruce Growth in SW Yukon

2010/9 - 2011/4 Principal Supervisor	Present Position: Photographer and filmmaker, Montreal Alexandra Parry, Bachelor's Honours (Completed) , Queen's University Thesis/Project Title: Small Felid Habitat Loss and Conservation: Case Studies of Four Globally Threatened Species Present Position: Doctor of Veterinary Medicine student, Ross University (St. Kitts)
2010/9 - 2011/4 Co-Supervisor	Taylor Oswald, Bachelor's Honours (Completed) , Queen's University Thesis/Project Title: Environmental Impact of Salmon Aquaculture: a Comparison of Scientific, Governmental, and Stakeholder Perspectives in British Columbia Present Position: Infrastructure Analyst, Canadian Pacific Railway (Vancouver)
2010/5 - 2010/8 Principal Supervisor	Jenna Siu, Bachelor's (Completed) , Queen's University Thesis/Project Title: Alpine vegetation change - summer research assistant Present Position: M.Sc. Student, Western University
2009/9 - 2010/4 Principal Supervisor	Kate Pragnell, Bachelor's Honours (Completed) , Queen's University Thesis/Project Title: Dendroclimatological Potential and Aspect-Related Growth Patterns of Subarctic Willow (<i>Salix</i> ssp.) From a Valley in Southwest Yukon Present Position: Independent Film and Television Writer, Vancouver
2009/9 - 2010/4 Principal Supervisor	Sarah-Taïssir Bencharif, Bachelor's Honours (Completed), Queen's University Thesis/Project Title: Climate Change and Connectivity: Are Corridors the Solution? Present Position: Medical Student, Queen's University
2009/5 - 2009/8 Principal Supervisor	Aimee Brisebois, Bachelor's (Completed) , Queen's University Thesis/Project Title: Spatial pattern of treeline - summer research assistant Present Position: M.Sc. Student, Simon Fraser University
2008/9 - 2009/4 Principal Supervisor	Kevin Birk, Bachelor's Honours (Completed), Queen's University Thesis/Project Title: Spatial Distribution Modeling of <i>Alliaria petiolata</i> in the Lemoine Point Conservation Area Present Position: Unknown

Graduate Teaching and Course Development

2009/9-2013/4 (3x)	Instructor and Course Designer, Queen's University Course Title: GPHY 818 Seminar in Landscape Ecology Course Level: Graduate
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Graduate and Postdoctoral Supervision

2013/9 - 2017/8 Principal Supervisor	Katherine Dearborn, Doctorate (In Progress), Geography, Queen's University
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- Student Degree Expected Date: 2017/10
Thesis/Project Title: Aspect-related differences in tree growth, community composition and vegetation pattern at the forest-tundra ecotone
- 2013/9 - 2015/8
Principal Supervisor Lucas Brehaut, Master's Thesis (In Progress), Geography, Queen's University
Student Degree Expected Date: 2015/10
Thesis/Project Title: Relationship between tree rings and satellite-derived indices of vegetation productivity in Canada's Yukon Territory
- 2013/9 - 2015/5
Co-Supervisor Md Saifuzzaman, Master's Thesis (In Progress), Environmental Studies, Queen's University
Student Degree Expected Date: 2015/6
Thesis/Project Title: Land cover change in the coastal region of Bangladesh with specific reference to agricultural transition
- 2013/9 - 2015/9
Principal Supervisor Achla Joshi, Master's Thesis (In Progress), Environmental Studies, Queen's University
Student Degree Expected Date: 2015/10
Thesis/Project Title: Evidence for the Frontenac Arch as a biogeographic tension zone
- 2012/9 - 2014/9
Co-Supervisor Claire Kryzcka, Master's Thesis (Completed), Environmental Studies, Queen's University
Thesis/Project Title: Extending concepts and practices of state of the environment reporting to UNESCO biosphere reserves
Present Position: Freelance technical report editor, Toronto
- 2012/9 - 2016/8
Principal Supervisor Dasvinder Kambo, Doctorate (In Progress), Geography, Queen's University
Student Degree Expected Date: 2016/10
Thesis/Project Title: Experimental analysis of the role of fine-scale biotic mechanisms on subarctic alpine treeline dynamics
- 2011/9 - 2015/6
Principal Supervisor Michelle Mazzocato, Master's Thesis (In Progress), Environmental Studies, Queen's University
Student Degree Expected Date: 2015/06
Thesis/Project Title: Effects of bark beetle on growth of subalpine white spruce, Yukon Territory
- 2011/9 - 2016/4
Principal Supervisor Robyn Laing, Master's Thesis (on leave), Environmental Studies, Queen's University
Student Degree Expected Date: 2016/6
Thesis/Project Title: Changes in plant community composition on the summer range of the Kluane caribou herd, Southwest Yukon, Canada
- 2010/9 - 2012/8
Principal Supervisor Ashley Lowcock, Master's Thesis (Completed), Geography, Queen's University
Thesis/Project Title: Applications of shrub dendrochronology in tracking decadal changes in pond margin dynamics
Present Position: Ph.D. student, University of British Columbia
- 2010/9 - 2012/8
Principal Supervisor Alexandra Conway, Master's Thesis (Completed), Geography, Queen's University
Thesis/Project Title: An investigation of forest-grassland dynamics in

southwest Yukon
 Present Position: Ph.D. student, University of Saskatchewan
 2010/9 - 2015/6 Clay McMullen, Master's Thesis (In Progress), Environmental Studies,
 Principal Supervisor Queen's University
 Student Degree Expected Date: 2015/6
 Thesis/Project Title: Historical forest ecology of the Frontenac Arch,
 Ontario
 2010/1 - 2012/5 Evelyn Garrah, Master's Thesis (Completed), Environmental Studies,
 Principal Supervisor Queen's University
 Thesis/Project Title: Wildlife road mortality on the 1000 Islands
 Parkway, south eastern Ontario
 Present Position: Environmental Planner, Ontario Ministry of Natural
 Resources

Membership on Graduate Examining, Supervisory & Advisory Committees

<u>Name of Student</u>	<u>Department</u>	<u>University</u>	<u>Your Role</u>	<u>Years</u>
Ensing, D	Biology	Queen's	Ph.D. committee member	2014-15
Tracey, A	Biology	Queen's	Ph.D. committee member	2014-15
Purves, E	Biology	Queen's	M.Sc. committee member	2013-15
Boreux, M	Geography	Queen's	Ph.D. committee member	2013-15
Rudy, A	Geography	Queen's	Ph.D. committee member	2013-15
Tigano, A	Biology	Queen's	Ph.D. committee member	2013-15
Danesh, D	Biology	Queen's	Ph.D. committee member	2012-15
Manion, N	Geography	Queen's	Ph.D. committee member	2011-15
Van Ewijk, K	Geography	Queen's	Ph.D. committee member	2011-15
López-Villalobos, A	Biology	Queen's	Ph.D. committee member	2009-15
Eged, G	Environmental Studies	Queen's	M.Sc. examiner	2014
Liu, N	Geography	Queen's	Ph.D. exam chair	2014
Hargreaves, A	Biology	Queen's	Ph.D. examiner	2014
Zamin, T	Biology	Queen's	Ph.D. committee member	2009-14
McKellar, A	Biology	Queen's	Ph.D. committee member	2009-13
Blair, J	Geography	Queen's	M.Sc. examiner	2013
Collingwood, A	Geography	Queen's	Ph.D. examiner	2013
Parker, S	Env & Rese Studies	Waterloo	Ph.D. external examiner	2013
Lamhonwah, D	Geography	Queen's	Ph.D. committee chair	2013
Akhuetie, F	Environmental Studies	Queen's	M.E.S. exam chair	2013
Tavenor, S	Environmental Studies	Queen's	M.E.S. committee member	2012-13
Tracey, A	Biology	Queen's	M.Sc. examiner	2012
Fan, W	Geography	Queen's	M.Sc. exam chair	2012
Graham, A	Geography	Queen's	M.Sc. examiner	2012

Wallace, S	Biology	Queen's	M.Sc. committee member	2010-12
Xuereb, A	Biology	Queen's	M.Sc. committee member	2010-12
Smith, S	Environmental Studies	Queen's	M.E.S. committee member	2010-12
Wong, A	Biology	Queen's	Ph.D. committee member	2010-12
Conboy, M	Biology	Queen's	M.Sc. examiner	2011
Flear, K	Biology	Queen's	M.Sc. examiner	2011
Stewart, K	Geography	Queen's	Ph.D. examiner	2011
Veillette, M	Geography	Queen's	M.Sc. examiner	2011
Gregory, F	Geography	Queen's	M.Sc. examiner	2011
Dileo, M	Biology	Queen's	M.Sc. committee member	2010-11
McHugh, M	Environmental Studies	Queen's	M.E.S. committee member	2010-11
Row, J	Biology	Queen's	Ph.D. examiner	2010
Southee, M	Geography	Queen's	M.Sc. examiner	2010
Wasiuta, V	Geography	Queen's	Ph.D. qualifying examiner	2010
Philbook, N	Environmental Studies	Queen's	M.E.S. examiner	2010
DeMille, M	Biology	Queen's	M.Sc. examiner	2010
Kathan, K	Geography	Queen's	Ph.D. qualifying examiner	2010
Harris, C	Biology	Queen's	M.Sc. committee member	2009-10
Roberts, A	Environmental Studies	Queen's	M.E.S. examiner	2009
Inglis, C	Biology	Queen's	M.Sc. examiner	2009
MacPhee, S	Biology	Queen's	M.Sc. examiner	2009
VanKoughnett, M	Biology	Queen's	M.Sc. examiner	2009
LeBlond, S	Biology	Queen's	M.Sc. exam chair	2009
Luciani, P	Geography	Queen's	Ph.D. committee chair	2009

Publications

Garrah L & Danby RK. Submitted. Recent advance of forest-grassland ecotones in southwest Yukon. In review: Environmental Management (MS ELE-00633-2013, submitted June, 2014).

Danby RK & Hik DS. Submitted. High resolution mapping and distribution modeling of conifers in a subarctic alpine treeline environment. In review: Arctic, Alpine and Antarctic Research (MS 15-011, submitted February, 2015).

Danby RK, Williams A & Hik DS. 2014. Fifty years of science at the Kluane Research Station. Arctic 67 (supl. 1): 3-8.

Conway AJ, Danby RK. 2014. Recent advance of forest ecotones in southwest Yukon grasslands. Canadian Journal of Forest Research 44: 509-520.

Danby RK. 2011. Monitoring forest-tundra ecotones at multiple scales. *Geography Compass* 5: 623-640.

Callaghan TV. et al. 2011. Multi-decadal changes in tundra environments and ecosystems: synthesis of the International Polar Year - Back to the Future Project (IPY-BTF). *Ambio* 40: 705-716.

Danby RK, Koh S, Hik DS and Price LW. 2011. Four decades of plant community change in the alpine tundra of southwest Yukon. *Ambio* 40: 660-671.

Harper K, Danby RK, DeFields D, Lewis KP, Trant, A, Starzomski BM, Savidge R, Hermanutz L. 2011. Tree spatial pattern within the forest-tundra ecotone: a comparison of sites across Canada. *Canadian Journal of Forest Research* 41: 479-489.

Danby RK & Hik DS. 2007. Evidence of recent treeline dynamics in southwest Yukon from aerial photographs. *Arctic* 60 (4): 411-420.

Danby RK & Hik DS. 2007. Variability, contingency and rapid change in recent subarctic alpine treeline dynamics. *Journal of Ecology* 95: 352-363.

Danby RK & Hik DS. 2007. Responses of white spruce (*Picea glauca*) to experimental warming at a subarctic alpine treeline. *Global Change Biology* 13: 437-451.

Applied Creative, Literary and Artistic Work

Presentations

1. Oral Presentations (*indicates students under my supervision)

Danby RK, Trant A, *Brehaut L, *Dearborn K, and *Kambo D. 2014. Responses of forest-tundra ecotones to climate variability in subarctic North America. Invited oral presentation at *ArcticNet – Arctic Change 2014*, December 9-13, Ottawa.

Danby RK. 2014. Evidence for pattern-process interactions from subarctic alpine treelines. Invited oral presentation at *Annual Meeting of the Ecological Society of America*, August 10-15, Sacramento, CA.

*Dearborn K and Danby RK. 2014. Variation in plant community composition across the forest-tundra ecotone. Oral presentation at *Meeting of the Canadian Geophysical Union (Biogeosciences Section)*, January 17-18, Toronto, Ontario.

*Dearborn K and Danby RK. 2014. Landscape-scale variability in white spruce (*Picea glauca*) growth across alpine forest-tundra ecotones in southwest Yukon. Oral presentation at *Annual Meeting of the Canadian Association of Geographers*, May 26-30, St Catherines, Ontario.

*Kryczka C., Danby RK, and Whitelaw G. 2014. Extending concepts and practice of state of the environment reporting to Biosphere Reserves. Oral presentation at *Environmental Studies Association of Canada Annual Meeting*, May 27-29, St. Catherines, Ontario.

Bonnaventure, P, Danby RK, Boreux M, Lewkowicz AG. 2013. Spatial modeling of climate change effects on treeline position in three regions of the Yukon. Oral presentation at *ArcticNet Annual Scientific Meeting*, December 9-13, Halifax.

Danby RK, Whitelaw GS, *Kryczka C. 2013. Sustainability indicators: a university-biosphere partnership for state of environment reporting. Invited plenary at *European Man and the Biosphere Network (EuroMAB) 2013*, Brockville, ON, October 15-19.

*Laing, R. & Danby RK. 2013. Changes in plant community composition on the summer range of the Kluane caribou herd, Southwest Yukon, Canada. Oral presentation at *Faster, Higher, More? Past, Present and Future Dynamics of Alpine and Arctic Flora under Climate Change*, September 22-25, Kurhaus Bergün, Grisons, Switzerland.

Whitelaw, GS & Danby RK. 2013. Applied science in the Frontenac Arch Biosphere Reserve. Invited case-study at *Putting Conservation Science into Practice*, Centre for Applied Sciences in Ontario Protected Areas (CASIOPA), Huntsville, ON, April 17-18.

Danby RK. 2012. Landscape variability and recent vegetation change in the mountainous subarctic. *Queen's University, Department of Biology Seminar Series*, Kingston, ON. December 7.

Danby, RK. 2012. Research Across Disciplines. Invited panel member. *Expanding Horizons Speaker Series*, School of Graduate Studies, Queen's University, Kingston, ON. October 4.

Danby RK. 2012. Multiscale analysis of recent vegetation change in southwest Yukon. *Wilfrid Laurier University, Department of Geography and Environmental Studies Special Invited Seminar*, Waterloo, ON. April 12.

*Conway, A. & Danby, RK. 2012. A dendroecological analysis of forest-grassland dynamics in southwest Yukon, Canada. Oral presentation at the *Annual Meeting of the Association of American Geographers*, February 24-28, New York.

*Lowcock, A. & Danby, RK. 2012. Applications of dendroecology in tracking pond margin dynamics, southwestern Yukon. Oral presentation at the *Annual Meeting of the Association of American Geographers*, February 24-28, New York.

Danby RK, Koh S, Hik DS & Price LW. 2012. Differential change in tundra plant communities during four decades of climate warming in southwest Yukon, Canada. Oral presentation at the *International Polar Year Conference*, April 22-27, Montreal.

Danby RK. 2012. The value of scientific networks for understanding vegetation change in Canada's North. Oral presentation at the *Annual Meeting of the Ontario Association of Geographic and Environmental Education*, October 19-20, Kingston, ON.

Slocombe, DS & Danby RK. 2012. Governance for complex regions: the case of Greater Kluane, Southwest Yukon. Oral presentation at *Thinking Mountains: An Interdisciplinary Mountain Studies Conference*, December 11-14, Edmonton, AB.

Danby RK. 2011. Satellite derived trends in snow cover and NDVI in southwest Yukon, 2000-2008. Oral presentation at *International Polar Year: Yukon Results Conference*, January 18, Whitehorse, Yukon.

Danby RK, Koh S, Hik DS & Price LW. 2011. Four decades of plant community change in the alpine tundra of southwest Yukon. Oral presentation at *IASC Arctic Science Summit Week*, March 27-April 1, South Korea.

Koh S, Danby RK, Jarosch A., Clarke GKC, & Hik DS. 2011. Ecosystem and plant community responses to climate change: do biotic interactions matter in predicting species distributions in northern alpine tundras? Oral presentation at the *Annual Meeting of the Canadian Society for Ecology and Evolution*, University of Calgary (host), Banff, AB, May 13-15.

Danby RK. 2011. Contemporary ecosystem change in southwest Yukon. Oral presentation at the *Kluane Lake Research Station 50th Anniversary Science Symposium*, August 6, Silver City, Yukon.

*Garrah, E & Danby RK. 2011. Herpetofaunal road mortality on the 1000 Islands Parkway: when, where and why? Oral presentation at the *Annual Meeting of the Canadian Amphibian and Reptile Conservation Network*, September 9-12, Thunder Bay, ON.

Danby RK. 2011. Pattern, process and scale at treeline in northwestern North America. Invited paper presented at the *Annual Meeting of the Canadian Society for Ecology and Evolution*, University of Calgary (host), Banff, AB, May 13-15.

Danby RK. 2011. Recent dynamics of alpine treeline in Yukon's Kluane region. Invited public lecture to the *Yukon Science Institute*, January 18, Whitehorse, Yukon.

Harper KA, De Fields DL, Danby RK, Lewis KP, Trant AJ, Starzomski BM, Savidge S, Hermanutz L. 2010. The spatial configuration of treeline: the structure of the Canadian forest-tundra ecotone. Oral presentation at *Understanding Circumpolar Ecosystems in a Changing World*, November 3-6, Edmonton, AB.

Danby RK. 2010. North vs. south: aspect-related differences in treeline pattern and process. Oral presentation at *Understanding Circumpolar Ecosystems in a Changing World*, November 3-6, Edmonton, AB.

Koh S, Jarosch A, Danby RK, Anslow F, Williamson S, Clarke GKC, Hik DS. 2010. Vegetation responses to climate change: do biotic interactions matter in predicting species distributions in northern alpine tundra? Oral presentation at the *International Polar Year Science Results Conference*, June 8-12, Oslo, Norway.

Wilmking M, Juday GP, Zhang Y, Alix C, Anchukaitis K, Barber V, Berg E, Buckley B, Bunn A, Danby RK, D'Arrigo R, Hogg EH, King G, Laxton E, Lloyd A, Luckman B, Pisaric M, Porter T, Roland C, Sherriff R, Wiles G, Wilson R, Winslow S. 2010. A Tale of 10,000 trees - The Northwestern North American Tree Ring Synthesis. Oral presentation at *WorldDendro: The 8th International Conference on Dendrochronology*, June 13-18, Rovaniemi, Finland.

Zhang Y, Wilmking M, Juday GP, Alix C, Berg E, Buckley B, Danby RK, D'Arrigo R, Hogg, EH, Lloyd A, Luckman B, Pisaric M, Porter T, Roland C, Sherriff R, Wiles G, Wilson R, Winslow S. 2010. Non-linear responses of White Spruce to changing climatic factors in Northwestern North America. Presented at *WorldDendro: The 8th International Conference on Dendrochronology*, June 13-18, Rovaniemi, Finland.

Koh S, Jarosch A, Danby RK, Clarke GKC, & Hik DS. 2009. Ecosystem and plant community responses to climate change: do biotic interactions matter in predicting species distributions in northern alpine tundras? Oral presentation at the *IASC Arctic Science Summit Week*, Bergen, Norway, March 23-28.

Hik DS, Myers-Smith I, Koh S, Williamson S, Danby RK, Jarosch A & Clarke GKC. 2009. The role of snow in structuring the forest-shrub-tundra ecotones: (up)scaling in subarctic mountains. Oral presentation at the *PPS-Arctic Annual International Meeting*, Moscow, Russia, April 14-17.

Danby RK. 2009. Retrospective and prospective vegetation change in Kluane, Yukon. Invited presentation at '*Back to the Future*': *An International Polar Year meeting on Arctic Environmental Change*, University of Texas, El Paso, TX, USA, November 10-12.

Danby RK. 2009. Landscape and environmental change in southwest Yukon: the view from treeline. *School of Environmental Studies Seminar Series*, Queen's University, Kingston, ON, September 24.

Danby RK. 2009. Climate change and the alpine ecosystems of southwest Yukon: a multiscale perspective. Invited presentation at the *Annual Meeting of the Canadian Society for Ecology and Evolution*, Dalhousie University, Halifax, NS, May 14-17.

Hik DS, Danby RK, Koh S, Clarke GKC, Jarosch A, Martin K, Flowers G & Kavanaugh J. 2008. Climate forcing of alpine tundra ecosystems in southwest Yukon: A Canadian contribution to the International Polar Year. Oral presentation at the *15th International Symposium on Polar Sciences on Polar Ecosystems, Biodiversity and Adaptation*, September 24-26, Korea Polar Research Institute, Incheon, Korea.

Danby RK, D.S. Hik, A.H. Jarosch, and G.K.C. Clarke. 2008. Mapping and modeling the present and future distribution of tundra ecosystems in southwest Yukon, Canada. Oral presentation at the *SCAR-IASC International Polar Year (IPY) Open Science Conference*, July 8-11, St. Petersburg, Russia.

Danby RK. 2008. Pattern, process and scale at the forest-tundra transition. *Department of Geography Seminar Series*, Queen's University, November 21.

Danby RK. 2008. Climate warming and the forest-tundra: ecotone change and implications for conservation in the North. *Faculty of Environmental Studies Seminar Series*, York University, January 30.

2. Poster Presentations (*indicates students under my supervision)

*Kambo D and Danby RK. 2014. Effects of shrubs on microenvironmental conditions near spruce seedlings at treeline. Poster presented at *ArcticNet - Arctic Change 2014*, December 9-13, Ottawa, Ontario.

*Dearborn K and Danby RK. 2014. Landscape-scale variation in plant community composition across Yukon treelines. Poster presented at *ArcticNet – Arctic Change 2014*, December 9-13, Ottawa.

*Brehaut L and Danby RK. 2014. Evaluation of recent vegetation productivity trends using high resolution remote sensing and dendrochronology in the Yukon Territory, Canada. Poster presented at *ArcticNet – Arctic Change 2014*, December 9-13, Ottawa.

*Garrah L & Danby RK. 2013. Characteristics of snake and turtle road mortality on the 1000 Islands Parkway. Poster presented at the *Ontario Endangered Species Act Conference*, April 8-9, Toronto.

*Laing, R & Danby RK. 2013. Climate change and caribou: examining arctic vegetation change in relation to *Rangifer tarandus* habitat quality and population dynamics. Poster presented at the *Queen's University Northern Research Day*, April 9, Kingston.

Mamet SD, Chan S, Danby RK, JD Jacobs & GP Kershaw. 2012. Temperature and snowpack characteristics across treeline. Poster presented at the *International Polar Year Conference*, April 22-27, Montreal.

Trant A & 14 others including Danby RK. 2012. Trees unlike no other? Age structure and tree form across the circumpolar forest-tundra ecotone. Poster presented at the *International Polar Year Conference*, April 22-27, Montreal.

*Garrah L & Danby RK. 2012. Turtle road mortality on the 1000 Islands Parkway. Poster presented at the *Algonquin to Adirondacks Conservation Association Strategic Workshop*, April 28, Kingston, ON.

*McMullen C & Danby RK. 2012. Eighty years of landscape change in the Frontenac Axis ecoregion. Poster presented at the *Algonquin to Adirondacks Conservation Association Strategic Workshop*, April 28, Kingston, ON.

*Conway A & Danby RK. 2011. An investigation of forest-grassland dynamics in southwest Yukon, Canada. Poster presented at the *41st Annual Arctic Workshop*, March 2-4, UQÁM, Montreal, QC.

*Lowcock A & Danby RK. 2011. Applications of dendroecology in tracking pond ecotone dynamics, southwestern Yukon. Poster presented at the *41st Annual Arctic Workshop*, March 2-4, UQÁM, Montreal, QC.

Harper KA, Hermanutz L, Danby RK, Lewis KP, Trant AJ, De Fields DL, & Starzomski BM. 2011. Changes in the spatial relationships between trees, shrubs, moss and lichens across the Canadian forest-tundra ecotone. Poster presented at *Plant Canada 2011*, July 17-21, St. Mary's University, Halifax, NS.

Danby RK. 2011. Pattern-process interactions at alpine treeline in southwest Yukon, Canada. Poster presented at the *Annual meeting of the American Geophysical Union*, December 4-9, San Francisco, CA.

Danby RK, *Conway A & *Lowcock A. 2010. Combining dendrochronology and aerial photography to document ecotone change in southwest Yukon. Poster presented at *Understanding Circumpolar Ecosystems in a Changing World*, November 3-6, Edmonton.

Danby RK, Williamson S & Hik DS. 2010. Trends in snow cover and NDVI for southwest Yukon, Canada, derived from MODIS, 2000-2008. Poster presented at the *International Polar Year Science Results Conference*, June 8-12, Oslo, Norway.

Harper KA, De Fields DL, Danby RK, Lewis KP, Trant AJ, Starzomski BM, Savidge S, Hermanutz L, Pelton J, Daley S & Albertsen E. 2010. The spatial configuration of trees at treeline: How is the structure of the Canadian forest-tundra ecotone changing with global warming? Poster presented at the *International Polar Year Science Results Conference*, June 8-12, Oslo, Norway.

Koh S, Jarosch A, Anslow F, Danby RK, Williamson S, Clarke GKC & Hik DS. 2010. Vegetation responses to climate change: do biotic interactions matter in predicting species distributions in northern alpine tundra? Poster presented at the *ARCUS 2010 State of the Arctic Meeting*, March 16-19, Miami, FL.

Koh S, Williamson S, Hik DS, Jarosch A, Clarke GKC & Danby RK. 2009. Ecosystem and plant community responses to climate change: predicting changes in fungal endophyte (*Neotyphodium* spp.) distributions in northern alpine tundra. Poster presented at the *CiCAT Annual Meeting*, Yellowknife, NT, May 5-8.

Consulting Activities

- Highway 401 reptile mortality data analysis, Algonquin to Adirondacks Conservation Collaborative 2014-2015
- Shrub dendrochronology, Ontario Ministry of Natural Resources and Forestry 2014-2015
- Cumulative Effects Assessment Mapping, Kluane National Park 2012-2014

and Reserve, Parks Canada

Research Funds – External/Internal

Period of Funding	Role	Principal Applicant	Funding Organization	Title	Amount (CAN\$)
2009/4 - 2015/3	Principal Investigator	Danby R	Natural Sciences and Engineering Research Council of Canada (NSERC) [Discovery Grant]	Multiscale Ecology and Dynamics of the Forest-tundra Ecotone	110,000
2009/4 - 2015/3	Principal Investigator	Danby R	Natural Sciences and Engineering Research Council of Canada (NSERC) [Northern Research Supplement]	Ecological Investigations at Treeline	60,000
2009/6 - 2014/12	Principal Investigator	Danby R	Canadian Polar Commission [Northern Scientific Training Program]	Annual Awards for Student Fieldwork	27,860
2009/6 – 2015/9	Principal Investigator	Danby R	Queen’s University [Summer Work Experience Program]	Annual Awards for Vegetation Ecology Research Assistants	48,600
2010/9 - 2013/1	Principal Investigator	Danby R	Canada Foundation for Innovation [Leaders Opportunity Fund]	Forest Tundra Dynamics in a Changing Climate	208,000
2011/4 - 2012/3	Co-applicant	Hik D	Natural Sciences and Engineering Research Council of Canada (NSERC) [Research Tools and Instruments]	Upgraded Gas Exchange System to Support Research in Plant Ecology	22,000
2008/6 - 2013/1	Principal Investigator	Danby R	Queen’s University [Research Initiation Grant]	Research Initiation Grant	52,000

Patents and Intellectual Property Rights**Service and Administration – External/Internal****External Service**

2013/4-2015/6	Science Advisory Committee, Algonquin to Adirondacks Conservation Association
2012/1-2015/6	Scholarship Committee, Arctic Institute of North America

- 2011/1-2011/8 Organizing Committee, Kluane Lake Research Station 50th Anniversary
- 2010/11-2015/6 Board of Directors, Canadian Arctic Resources Committee
- 2007/10-2015/6 Board of Directors, Ken Danby Studios
- 2006/1-11/12 Kluane Lake Research Station Science Committee, Arctic Institute of North America

Internal Service

- 2014/1-2014/4 Member – Review Committee, Baillie Chair in Conservation Biology
- 2013/1-2013/4 Member - Director Review Committee, School of Environmental Studies
- 2012/1-2013/6 Co-organizer - Queen’s University Arctic Research Day
- 2010/7-2015/6 Faculty Advisor - Specialization in Environmental Geography
- 2012/7-2014/6 Member - Departmental Safety Committee (GPHY)
- 2012/6-2012/12 Chair - Renewal, Tenure and Promotion Committee (GPHY)
- 2010/1-2010/6 Member - Interpreter Operations Committee (ENSC)
- 2010/1-2010/6 Member - Undergraduate Curriculum Committee (ENSC)
- 2010/7-2012/6 Departmental Safety Liaison (GPHY)
- 2009/7-2010/6 Member - Undergraduate Curriculum Committee (GPHY)
- 2013/7-2014/6
- 2008/9-2014/6 Member - Graduate Committee (ENSC)
- 2009/6-2009/12 Chair - Renewal, Tenure and Promotion Committee (ENSC)
- 2008/9-2009/4 Member - Undergraduate Curriculum Review (ENSC)

Other Professional Work