

# Dr. Greg King

Curriculum Vitae

June 2024

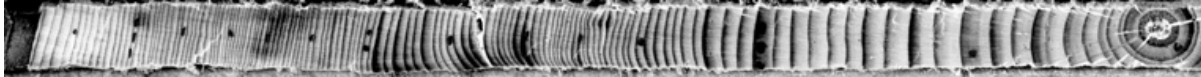
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## I. EDUCATION

**PhD Climate Sciences, *summa cum laude*** 2014

University of Bern, Switzerland

Advisors: Dr. David Frank, Dr. Patrick Fonti, Dr. Fortunat Joos

Thesis Title: *Tree Growth Along Elevational Gradients in the Swiss Alps*

**MSc Physical Geography** 2009

Carleton University, Ottawa, Ontario

Advisor: Dr. Michael F.J. Pisaric

Thesis Title: *Factors Influencing the Growth of White Spruce in the Mackenzie Delta, NT*

**BSc (Honours) in Environmental Science** 2006

Carleton University, Ottawa, Ontario

## II. ACADEMIC POSITIONS

**Assistant Professor of Environmental Science** 2018-

Department of Science

University of Alberta, Augustana Campus, Camrose, Alberta

**Robert Gilbert Postdoctoral Fellow** 2015-17

Department of Geography and Planning

Queen's University, Kingston, Ontario

Supervisor: Dr. Ryan Danby

**Sessional Faculty** 2013-14

Department of Geography & Environment

Mount Allison University, Sackville, New Brunswick

### III. AWARDS

Early Achievement of Excellence in Teaching Award, Augustana Faculty	2023
Campus Sustainability Leadership Award, University of Alberta	2022
Alberta Capital Airshed - Clean Air Award. Contributing Toward Improving Community Air Quality	2022
Best Poster Prize at 8 <sup>th</sup> International World Dendrochronological Congress. Rovaniemi, Finland	2010
Best Master's Presentation Award at the 1 <sup>st</sup> American Dendrochronology Conference. Vancouver, BC	2008
Carleton University Senate Medal for Outstanding Academic Achievement	2006

### IV. TEACHING

#### Courses Taught

##### *University of Alberta Augustana Campus*

AUENV 120 - Human Activities and the Natural Environment (F20 [online], W21 [online], W22, F22)

AUENV 233 - Soil Science and Soil Resources (W18, W20 [online], F21, F23)

AUENV 220 - Applications in Sustainability (F18, W19, W20 [online], W21 [online], W22, W23, W24)

AUENV 231 - Climatology (W19)

AUENV 234 - Research & Field Skills in Environmental Science (F22)

AUENV 334 - Field Studies in Environmental Science (co-taught in F21, F23)

AUENV 351 - Biogeography (F18, F20 [online])

AUENV 421 - Environmental Science: History & Impacts (Capstone) (W22)

AUENV 431 - Science of the Climate Crisis (W21 [online], F22)

~~AUIDS 287/387 - Dendrochronology Field Studies (F20) cancelled due to COVID~~

AUIDS 301 - Community Partnership Project (W23, W24)

## **Queen's University**

GPHY 209 - Principles of Hydroclimatology (W16)

## **Mount Allison University**

GENS 3421 - Biogeography (F13)

GENV 2001 - Environment & Society (W14)

GENS 2421 - Weather & Climate (W14)

## **Professional Development Activities**

Participant in a Teaching Pentagon, Augustana Faculty (Fall 2022)	2022
Attended Undergraduate Biology Educators of Alberta (UBEA) conference. May 13.	2021
Completion of CTL Concepts in Course Design Course (May 2020)	2020
Completion of CTL Teaching & Learning Online: Introductory Self Study Course	2020
Completion of the Teaching Development Program with the University of Alberta Centre for Teaching and Learning (CTL)	2019-21
Participant in Teaching Square, Augustana Faculty (Winter 2019)	2019
Certificate in Building Capacity for Reconciliation, Augustana Campus.	2018-19
QUBES Faculty Mentoring Network. <i>Reducing Barriers to Teaching with R in Undergraduate Biology</i> (Fall 2018)	2018

## **Teaching Funding & Grants**

Augustana Experiential Learning Support Fund (\$1200)	2024
Sustainability Council Funding to Build Capacity for Sustainability at UofA Augustana (focus on teaching & student outreach) (\$10,000)	2024
Augustana Experiential Learning Support Fund (\$1000)	2023
Sustainability Council Funding to Build Capacity for Sustainability at UofA Augustana (focus on teaching & student outreach) (\$10,000)	2023

First We Eat. A Food Sustainability & Local Food Film Event. Sustainable Food Endowment Grant. University of Alberta Augustana. (\$9,200)	2022-23
Augustana Experiential Learning Support Fund (\$450)	2021
Augustana Experiential Learning Support Fund (\$1500)	2020
University of Alberta Teaching & Learning Enhancement Fund (\$1935)	2019
Augustana Experiential Learning Support Fund (\$3740)	2018-19

## **Supervision of Researchers & Students**

### ***Graduate***

Co-supervisor. MSc Major Research Project. Mason Burtnek, University of Alberta, School of Urban and Regional Planning: "Analyzing The Effects of Infill Development on Private Tree Counts in Edmonton"	2024-
Committee Member. MSc Thesis. Davia Yahia. Université du Québec à Montréal, Biology: "Rooted in the City: Exploring Urban Influence on Street and Park Tree Xylem Anatomy"	2024-
Co-supervisor. RA. Hatice Ecem Erol, University of Alberta, School of Urban and Regional Planning: "Evaluating Strategies to Encourage Private Tree Planting"	2024
External Examiner. MSc Thesis. Erin Pearson. Memorial University, Geography: "Searching for climate change solutions in Newfoundland's urban forest"	2023
External Examiner. PhD Thesis. Jay Maillet. University of Saskatchewan, Environment and Sustainability: "Still Watching Trees Grow: A Multispecies and Cross-Scale Examination of the Radial Growth, Climate, and Carbon Interface"	2020

### ***Undergraduate***

#### ***Directed Studies***

Alix Stannard (BSc UofA Augustana): Integrating the SDGs into Daily Life: Pedagogy Design for AUENV 220. (Directed Study, Fall 2023)	2023
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Madison McNalley (BSc UofA Augustana): The Effect of Radio Broadcasting on Normalizing Weather Variation Due to Climate Change. (Directed Study, Winter 2023)	2023
Lucille Wang (BSc UofA Augustana): Dendrochronological comparison of urban and rural white spruce. (Directed Study, Fall 2022/Winter 2023)	2022-23
Anna Wiebe (BA UofA Augustana): Historic urban tree canopy assessment for Camrose, AB. (Directed Study, Fall 2022)	2022
Dana Eliuk (BSc UofA Augustana): Earthworm Species in Agricultural and Adjacent Land in Brandon, Manitoba. (Directed Study, Winter 2022) [co-supervision: Dr. Stephen Crittenden]	2022
Lauren Perras (BSc UofA Augustana): The Effect of Drought on Growth of Four Urban Tree Species in Edmonton, AB. (Directed Study, Fall 2021/Winter 2022)	2021-22
Chelsea Cook (BSc UofA Augustana): Reconstructing Historic Lake Levels of Cooking Lake Through White Spruce Tree Ring Analysis. (Directed Study, Fall 2021)	2021
Valerie Nadeau (BSc UofA Augustana): A comparison of the impact of urbanization on <i>Bombycilla garrulus</i> and <i>Dryobates pubescens</i> . (Directed Study, Winter 2021) [remote]	2021
Lauren Van Dyke (BSc UofA Augustana): Correlation Between Homeowners Beliefs and Tree Health and Diversity Within Their Yards. (Directed Study, Winter 2020)	2020
Carson Hvenegaard (BSc UofA Augustana): Effects of Residential Development on the Growth of White Pine in Ottawa, ON. (Directed Study, Winter 2020)	2020
Joel Koop (BA UofA Augustana): Science Communication: Practical Suggestions for Northern Research. (Directed Study, Fall 2018)	2018
Georgina Preston (BSc Queen's University): Urban Forest Best Practice Guide for the City of Kingston. (Independent Study, Winter 2017) [co-supervision: Dr. Warren Mabey]	2017

Emily Featherstone (BSc Queen's University): Comparison of white and black spruce growth within the Boreal Forest-Tundra ecotone in the Northwest Territories. (Independent Environmental Study, Fall 2016/Winter 2017).	2016-17
Lauren Perrin (BSc Mount Allison University): A Changing Landscape: The Tantramar Wetland Dykes. (Independent Study, Winter 2014)	2014
Robyn Snook (BSc Mount Allison University): A Six Year Study of Biologically Controlling Purple Loosestrife with <i>Galerucella</i> spp. at the Tantramar Wetlands Centre. (Independent Study, Winter 2014)	2014
Kristie N. Duncan (BSc Mount Allison University): Tantramar Wetland Water Chemistry and Macroinvertebrate Analysis. (Independent Study, Winter 2014)	2014

#### *Research Assistants*

Makayla Clarke (BSc UofA Augustana): Camrose Urban Forest Project (Mitacs Accelerate Internship, Summer 2024)	2024
Simon Schiebel (BSc Uni Freiburg): Urban forests: growth and sustainability (Mitacs Globalink Internship, Summer 2024)	2024
Peiyao Zhang (BA Soochow University): Urban forests: growth and sustainability (Mitacs Globalink Internship, Summer 2024)	2024
Edward Buckley (BA University of Exeter): Partnerships in Sustainable Communities (Mitacs Globalink Internship, Summer 2024) [co-supervision: Dr. Clark Banack]	2024
Ayra McCarthy (BSc UofA Augustana): Sustainability & SDGs at Augustana (Sustainability Council, Winter 2024)	2024
Aarushi Gupta (BSc UofA Augustana): Exploring spruce response, productivity, and health in a warming world (Start-Up Funds, Fall 2023/Winter 2024)	2023-24
Alix Stannard (BSc UofA Augustana): Sustainability & SDGs at Augustana (Sustainability Council, Fall 2023/Winter 2024)	2023-24
Lauren Perras (BSc UofA Augustana): Resilient Urban Forests for Canadians (UQAM NSERC partnership, Summer 2021)	2021

Kelly Heinemann (BSc UofA Augustana): Historic Water Level Changes at Cooking Lake, AB (Mazankowski Undergraduate Research Award, Summer 2021)	2021
Gracie Leatherman (BA University of South Carolina): Land-Use/Zoning & Effects on Urban Forests (Mitacs Globalink Internship, Summer 2024) [remote]	2021
Sarah Preston (BA UofA Augustana): Camrose Urban Forest Project (Augustana Summer Student Research Assistantship, Summer 2020)	2020
Julia Kappeler (BSc UofA Augustana): Camrose Urban Forest Project (Augustana Summer Student Research Assistantship, Summer 2019)	2019
Carter Rolston (BSc UofA Augustana): Camrose Urban Forest Project (United Nations Association of Canada Green Spaces, City of Camrose & UofA Augustana funding, Summer 2019)	2019
Wei Hua (BSc Southwest University): Camrose Urban Forest Project (Mitacs Globalink Internship, Summer 2019)	2019
Joel Koop (BA UofA Augustana): Vegetation productivity and phenology across the Bathurst caribou range (CIMP & UofA Augustana Funding, Summer/Fall 2018)	2018

### Invited Guest Lectures

“Stories Trees & Forests Can Tell” in AUART 381: Visual Cultures of Science, Augustana Faculty (Apr 2024)	2024
“How do we study past climates?” in AUENV 231: Climatology, Augustana Faculty (Mar 2024)	2024
“Dendroarchaeology” in BIOL 4473: Dendrochronology, Principles and Applications, University of Winnipeg (Feb 2024)	2024
“Food & Sustainability” in AUIDS 101: First-Year Seminar, Augustana Faculty (Sep 2023)	2023
“Vegetation, The Natural World, and Superheroes” in AUIDS 101: First-Year Seminar, Augustana Faculty (Sep 2022)	2022
“Nature as a source of happiness” in AUIDS 101: First-Year Seminar, Augustana Faculty (Sep 2022)	2022
“Dendroarchaeology” in BIOL 4473: Dendrochronology, Principles and Applications, University of Winnipeg (Nov 2021)	2021

“Food & Sustainability” in AUIDS 101: First-Year Seminar, Augustana Faculty (Sep 2021)	2021
“How do we study past climates?” in AUGEO 231: Climatology, Augustana Faculty (Mar 2021)	2021
“A Brief Introduction to Climate Change” in AUPHI 355: Philosophy of Technology and The Environment, Augustana Faculty (Apr 2020) [remote]	2020
“Northern Plants & Ecosystems: Survival in a Harsh Place” in AUGEO 341: Geography of the Canadian North, Augustana Faculty (Mar 2020)	2020
“Climates of the Past” in AUIDS 101: First-Year Seminar, Augustana Faculty (Sep 2018)	2018
“Northern Plants & Ecosystems: Survival in a Harsh Place” in AUGEO 341: Geography of the Canadian North, Augustana Faculty (Feb 2018)	2018

### **Teaching Conference Presentations**

King, G. 2022. "Taking Action on Sustainability Through Project-Based Learning". Augustana Conference on Undergraduate Research and Innovative Teaching. Camrose, AB. May 7.	2022
King, G. 2019. “Augustana’s Context: Planting Space for Urban Forest Education”. Arboriculture and Urban Forestry Educators Symposium. Morton Arboretum, Lisle, Illinois. May 21.	2019

### **Other Teaching-Related Public Presentations**

Boddy, M., King, G. 2024. “Climate Vulnerability and Risk: A Community Partnership Project”. Municipal Climate Change Action Centre, Climate Resilience Capacity Building Community of Practice Symposium. Edmonton, AB. May 7.	2024
Boddy, M., King, G. 2024. “Climate Vulnerability and Risk: Outcomes from a Community Partnership Project”. City of Camrose Committee of the Whole. May 27.	2024



## V. RESEARCH

### Publications

#### *Refereed Journal Articles*

- Zhang Y, Huang J-G, Wang M, Wang W, Deslauriers A, Fonti P, Liang E, 2024  
Mäkinen H, Oberhuber W, Rathgeber CBK, et al. 2024. High preseason  
temperature variability drives convergence of xylem phenology in the  
Northern Hemisphere conifers. *Current Biology*. 34(6):1161-1167.e3.  
doi:10.1016/j.cub.2024.01.039.
- Danby RK, **King G**, Bonney MT. 2023. Science by Canoe: A Treeline 2023  
Transect in Northern Canada. *fogeo*. 66(3p).  
doi:10.21690/fogeo/2023.66.3p.
- Boucher E, Gennaretti F, Porter T, Hermoso De Mendoza, I, Solignac S, 2023  
Lauzon L, Axelson J, Speer, JH, **King G**. 2023. Scientific Meeting  
Report Ameridendro 2022 in Montréal, Canada: Reconstructing Our  
Community . *Tree-Ring Research*, 79, 1.27-37,  
<https://doi.org/10.3959/TRR2022-7>
- Bonta C, **King GM**, Danby RK. 2023. Greening on the Bathurst caribou 2023  
range in northern Canada: are erect shrubs responsible for remotely  
sensed trends? *Arctic Science*. doi:10.1139/as-2022-0036.
- Huang J-G, Zhang Y, Wang M, Yu X, Deslauriers A, Fonti P, Liang E, 2023  
Mäkinen H, Oberhuber W, Rathgeber CBK, et al. 2023. A critical  
thermal transition driving spring phenology of Northern Hemisphere  
conifers. *Global Change Biology*. 29(6):1606–1617.  
doi:10.1111/gcb.16543.
- Huang J-G, Campelo F, Ma Q, Zhang Y, Bergeron Y, Deslauriers A, 2020  
Fonti P, Liang E, Mäkinen H, Oberhuber W, et al. 2020. Reply to  
Elmendorf and Ettinger: Photoperiod plays a dominant and  
irreplaceable role in triggering secondary growth resumption. *PNAS*.  
117(52):32865–32867. doi:10.1073/pnas.2019931117.
- Huang J-G, Ma Q, Rossi S, Biondi F, Deslauriers A, Fonti P, Liang E, 2020  
Mäkinen H, Oberhuber W, Rathgeber CBK, et al. 2020. Photoperiod  
and temperature as dominant environmental drivers triggering  
secondary growth resumption in Northern Hemisphere conifers. *PNAS*.  
117(34):20645–20652. doi:10.1073/pnas.2007058117.
- Rossi S, Anfodillo T, Čufar K, Cuny HE, Deslauriers A, Fonti P, Frank D, 2016  
Gričar J, Gruber A, Huang J-G, et al. 2016. Pattern of xylem phenology

- in conifers of cold ecosystems at the Northern Hemisphere. *Global Change Biology*. 22(11):3804–3813. doi:10.1111/gcb.13317.
- Cuny HE, Rathgeber CBK, Frank D, Fonti P, Mäkinen H, Prislan P, Rossi S, del Castillo EM, Campelo F, Vavřík H, et al. 2015. Woody biomass production lags stem-girth increase by over one month in coniferous forests. *Nature Plants*. 1(11):15160. doi:10.1038/nplants.2015.160. 2015
- Treml V, Ponocná T, **King GM**, Büntgen U. 2015. A new tree-ring-based summer temperature reconstruction over the last three centuries for east-central Europe. *International Journal of Climatology*. 35(10):3160–3171. doi:10.1002/joc.4201. 2014
- Rossi S, Anfodillo T, Čufar K, Cuny HE, Deslauriers A, Fonti P, Frank D, Gričar J, Gruber A, **King GM**, et al. 2013. A meta-analysis of cambium phenology and growth: linear and non-linear patterns in conifers of the northern hemisphere. *Ann Bot*. 112(9):1911–1920. doi:10.1093/aob/mct243. 2013
- Simard S, Giovannelli A, Treydte K, Traversi ML, **King GM**, Frank D, Fonti P. 2013. Intra-annual dynamics of non-structural carbohydrates in the cambium of mature conifer trees reflects radial growth demands. *Tree Physiology*. 33(9):913–923. doi:10.1093/treephys/tpt075. 2013
- King GM**, Gugerli F, Fonti P, Frank DC. 2013. Tree growth response along an elevational gradient: climate or genetics? *Oecologia*. 173(4):1587–1600. doi:10.1007/s00442-013-2696-6. 2013
- King GM**, Fonti P, Nievergelt D, Büntgen U, Frank D. 2013. Climatic drivers of hourly to yearly tree radius variations along a 6 °C natural warming gradient. *Agricultural and Forest Meteorology*. 168(0):36–46. doi:10.1016/j.agrformet.2012.08.002. 2013
- Johnstone JF, McIntire EJB, Pedersen EJ, **King G**, Pisaric MJF. 2010. A sensitive slope: estimating landscape patterns of forest resilience in a changing climate. *Ecosphere*. 1(6):art14. doi:10.1890/ES10-00102.1. 2010

## ***Book Chapters***

- King G**, Hvenegaard G. 2022. Greenspace in Small Cities: Opportunities for Sustainability Education. In: Mutnick D, Cuonzo M, Griffiths C, Leslie T, Shuttleworth JM, editors. *The City is an Ecosystem: Sustainable Education, Policy, and Practice*. London: Routledge. p 48-58. 2022

### ***Non-Peer-Reviewed Publications***

- King G**, Boyd M. 2024. A Dendroarchaeological Analysis of the Taylor/Scott Cabin: Cooking Lake, AB. Augustana Tree-Ring Lab. 9pp. <https://doi.org/10.7939/r3-k43w-bq73> 2024
- King G**, Boyd M. 2024. A Dendroarchaeological Analysis of the Tanner/Williams Homestead: Strathcona County, AB. Augustana Tree-Ring Lab. 7pp. <https://doi.org/10.7939/r3-5jr9-cc06> 2024
- King G**, Boyd M. 2024. A Dendroarchaeological Analysis of the Robertson Spruce Lodge: Cooking Lake, AB. Augustana Tree-Ring Lab. 7pp. <https://doi.org/10.7939/r3-d2j0-0c09> 2024
- Kokelj SA, Beel CR, Connon RF, Graydon C, **King G**, Kanigan J. 2022. Beaufort Delta climate data, Northwest Territories., 1. Northwest Territories Geological Survey - Open Data Report. doi: 10.46887/2022-007 2022
- King G**, Preston S. 2020. Augustana Neighbourhood Urban Forest Report. Augustana Tree-Ring Lab. 17pp. <https://doi.org/10.7939/r3-00zt-sb74> 2020
- King G**, Dearborn K, Danby R. 2018. Tree and Shrub Growth Across the Bathurst Caribou Herd's Annual Range. Progress Report for 2017/18. Cumulative Impacts and Monitoring Project (#187). 9pp. 2018
- Dearborn K, **King G**, Danby R. 2018. Recent Trends in Satellite-measured Vegetation Productivity Across the Bathurst Caribou Herd's Annual Range. Progress Report for 2017/18. Cumulative Impacts and Monitoring Project (#187). 7pp. 2018

### ***Scholarly Related Community Engagement***

- King, G.** 2021 Oct. Preview of ISA 2021 Talks: Effects of Residential Development on Mature Trees. Arboricultural Research and Education Academy (AREA) Newsletter. 5. 2021
- King, G.** 2019 Oct 15. Second Thought: Party Platforms and the Environment. Camrose Booster. 27. 2019

**King, G.** 2019 Apr 9. Second Thought: Benefits of Urban Forests. 2019  
Camrose Booster. 8.

### ***Forthcoming***

Trouillier M, **King G**, Alix C, Bunn AG, Dearborn KD, Griesbauer HP, Harvey JE, Juday GP, Lange J, Nicklen EF, Ohse B, Pisaric MFJ, Porter TJ, Roland CA, Sauchyn DJ, Sheriff RL, Sullivan PF, Tardif J, Wiles GC, Wilmking M. *[in revision]* Machine learning models predict changing growth rates and a shifting climate sensitivity of white spruce. Submitted to Journal of Ecology.

Rissanen K, Vitali V, Chavardès R, Bouchard-Piché R, Boushey I, Conciatori F, **King G**, Kneeshaw D, Legault M, Perras L, Tardif J, Paquette A. *[In Prep]*. Urban tree growth responses to climate and drought events across five Canadian cities. To be submitted to Global Change Biology.

**King G**, Hvenegaard C, North E. *[In Prep]*. Effects of residential development on growth, climatic drivers, and resilience of mature trees Arlington Woods. To be submitted to Urban Forestry & Urban Greening.

**King G**, Reade D, Boyd, M. *[In Prep]*. Dendroarchaeology in the Beaver Hills: A Case Study of the Robertson Spruce Lodge. To be submitted to Tree-Ring Research.

### **Presentations (includes posters, \* = invited):**

**King G.** *Building the Camrose Urban Forest Project.* Canadian Urban Forest Conference 2024. Winnipeg, MB. October. 2024

**\*King G.** *The Application of Dendrochronology for Urban Foresters.* ISA Prairie Chapter Conference - "Future Growth, Rooted in History". Olds, AB. October 23. 2023

**\*King G.** *The Science of Dendrochronology.* ISA Prairie Chapter Conference - "Future Growth, Rooted in History". Olds, AB. October 23. 2023

**\*King G**, Reade D, Boyd M. *Dendroarchaeology in the Beaver Hills: Hydrological reconstructions and cultural heritage.* Beaver Hills Biosphere Forum. Sherwood Park, AB. March 2. 2023

Rissanen K, Legault M, **King G**, Kneeshaw D, Paquette, A. *Resilient urban forests for Canadians: How urban trees coped with past climate* 2022

- events. Canadian Urban Forest Conference 2022. Charlottetown, PEI. October 4.
- Rissanen K, Bouchard-Piche R, Chavardes R, **King G**, Kneeshaw D, Legault M, Perras L, Vitali V, Paquette A. *Does drought affect the growth of street and park trees in Canadian cities?*. AmeriDendro 2022. Montreal, QC. June 28. 2022
- King G**, Heinemann K, Cook C, Reade D, Boyd M. *Reconstruction of Precipitation & Lake Levels in the UNESCO Beaver Hills Biosphere*. AmeriDendro 2022. Montreal, QC. June 29. 2022
- King G**, Heinemann K, Reade D, Boyd M. *Dendroarchaeology in the Beaver Hills: A Case Study of the Robertson Spruce Lodge*. Annual Meeting of the Canadian Archaeological Association. Edmonton, AB. April 30. 2022
- King G**, North E. *Effects of residential development on growth of mature trees*. International Society of Arboriculture Annual Conference. Virtual. December 13. 2021
- Bonta C, **King G**, Danby R. *Greening on the Bathurst Caribou Range in Central Mainland Canada*. 2021 ACUNS Student Conference on Northern Studies. November 3. 2021
- King G**, Conway A, Danby R. *Forest advance: Do radial growth and seedling establishment share similar drivers?*. International Boreal Forest Research Association 2021 Conference. Virtual. August 19. 2021
- Danby R, **King G**. *Stand Dynamics of Forest Patches at the Northern Treeline*. International Boreal Forest Research Association 2021 Conference. Virtual. August 19. 2021
- Trouillier M, **King G**, Alix C, Bunn AG, Dearborn KD, Griesbauer HP, Harvey JE, Juday GP, Lange J, Nicklen EF, Ohse B, Pisaric MFJ, Porter TJ, Roland CA, Sauchyn DJ, Sheriff RL, Sullivan PF, Tardif J, Wiles GC, Wilmking M. *Predicting white spruce radial growth with artificial neural networks*. International Boreal Forest Research Association 2021 Conference. Virtual. August 17. 2021
- King G**, Hvenegaard C, Quann S, North E. *Effects of residential development on growth, climatic drivers, and resilience of mature trees*. American Association of Geographers. Oral Presentation. April 10. 2021
- ~~King, G., Hvenegaard, C., Quann, S., North, E. *Effects of residential development on growth, climatic drivers, and resilience of mature trees*. Canadian Urban Forest Conference. Cancelled due to COVID.~~ 2020

King G. <i>Urban forests through their tree rings: looking to the past to better construct the future</i> . Canadian Forest Service Northern Forestry Centre - Internal Research Seminar. February 27.	2020
Kappeler J, Rolston C, Hua W, <b>King G</b> . <i>The Camrose Urban Forest Project</i> . Show & Tell: A Student Research Celebration - University of Alberta Senate. Edmonton, AB. September 18.	2019
<b>King G</b> , Dearborn K, Danby R. <i>Vegetation productivity and phenology across the Bathurst caribou range</i> . Western Division of the Canadian Association of Geographers Meeting. March 10.	2018
<b>King G</b> , Thibert S, Bonney M, Danby R. <i>Off The Beaten Path: A Canoe-Based Expedition Across the Treeline Ecotone</i> . Queen's Northern Research Symposium. April 10.	2017
<b>King G</b> , Danby R. <i>Patch Dynamics within the Forest-Tundra Ecotone: A Dendroecological Investigation</i> . American Association of Geographers. April 5.	2017
<b>King G</b> . <i>Boreal Biome Shifts: Climate and Ecology Shape Future Forests of the North</i> . Planet Earth 3.0 Lecture Series, Alfred Krupp Wissenschaftskolleg, Universität Greifswald, Germany. November 22.	2016
<b>King G</b> , Conway A, Danby R. <i>Forest Advance: Do radial growth and seedling recruitment share similar drivers?</i> Canadian Association of Geographers Annual Meeting. May 31.	2016
<b>King G</b> . <i>Dendrochronology: From Seconds to Centuries</i> . Humboldt Kollege: Time. May 6.	2016
<b>King G</b> , Fonti P, Gugerli F, Simard S, Frank DC. <i>Elevational gradients reveal tree growth response to a warming climate</i> . 2 <sup>nd</sup> American Dendrochronology Congress. Tucson, AZ. May 16.	2013
<b>King GM</b> , Fonti P, Frank DC. <i>Circadian stem size dynamics in larch and spruce along a 900-meter elevational gradient</i> . World Dendrochronological Congress. Rovaniemi, Finland. June 17.	2010
Fonti P, Franzen J, <b>King G</b> , Frank D, Cufar K, Gricar J. <i>Seasonal dynamics of ring formation in Larix decidua and Picea abies growing along an altitudinal gradient in Switzerland</i> . World Dendrochronological Congress. Rovaniemi, Finland. June 15.	2010
<b>King GM</b> , Fonti P, Frank DC. <i>Circadian stem size dynamics in larch and spruce along a 900-m elevational gradient</i> . TRACE: Tree Rings in Archaeology, Climatology and Ecology. Freiburg, Germany. April 25.	2010

**King GM**, Pisaric MFJ, Kokelj SV. *Radial growth investigations and intra-annual dynamics of white spruce, Mackenzie Delta, NWT*. First American Dendrochronology Conference. Vancouver, BC. June 25. 2008

## Other Public Presentations

**\*King G.** *The Augustana Urban Forest Inventory*. Augustana Neighbourhood Association Annual General Meeting. May 14. 2024

**\*King G**, Boyd M. *Tree Ring Research in the Beaver Hills*. Beaver Hills Biosphere Reserve Association - Science Committee. January 26. 2023

Perras L, **King G.** *Effects of Drought on Urban Tree Species in Edmonton, AB*. City of Edmonton Urban Forestry Department Seminar. June 20. 2022

**\*Gour B**, Crow B, Willdig C, **King G.** *Citizen Science: Utilizing new technologies to measure the air quality of Camrose*. Alberta Capital Airshed Webinar. April 20. 2022

**\*King G.** *Urban Trees: Improving Air Quality in Our Neighbourhoods*. Tomorrow Foundation Online Public Webinar. July 28. 2020

**King G.** *Get Outside: Exploring Urban Forests*. UofA Alumni Relations. On-Demand Webinar. July 14. 2020

**\*King G.** *Benefits of the Augustana Urban Forest*. Augustana Neighbourhood Association Annual General Meeting. June 3. 2019

**\*King G**, Kappeler J, Rolston C, Hua W. *The benefits of Camrose's urban forest*. Camrose Wildlife and Stewardship Society - Summer Presentation Series. June 6. 2019

**\*King G.** *Changes in vegetation productivity across the Bathurst caribou range as measured from satellite imagery and field sampling*. Augustana Research Colloquium. March 22. 2019

**\*King G**, Danby R. *Off the Beaten Path: A Canoe-Based Expedition Assessing Vegetation Change Across Treeline*. Queen's University Post-Doc Appreciation Week Showcase. September 20. 2017

**\*King G.** *Tales Urban Trees Tell*. Tree Ottawa Workshop. April 22. 2015

## **Sessions/Workshops Organized**

Organizer. Blue Intensity Workshop at University of Alberta. Camrose. August 2 and 3.	2023
Symposium Organizer & Co-Chair. Applications of Dendrochronology in Urban Environments. AmeriDendro 2022. Montreal, QC. June 28.	2022
Session Co-organizer and Chair. Temporal and spatial perspectives on ecosystem change. Canadian Association of Geographers Annual Meeting. Halifax, NS. May 31.	2016
Session Chair. Intra-annual dynamics and wood anatomy. European Dendrochronology Conference. September 20.	2011

## **Funding & Grants**

Dendroarchaeology in the Beaver Hills. Private Donor - Summer Research Student Funding (\$5,000)	2024
Human Dimensions of Urban Forest Management. University of Alberta SSHRC Institutional Grant (\$6,000)	2024
Camrose Urban Forest Project. Mitacs Accelerate Grant with City of Camrose (\$15,000)	2024
Evaluating Strategies to Encourage Private Tree Planting. City of Edmonton (\$15,000)	2024
Blue Intensity Workshop Funding. Internal Augustana Support. (\$5,000)	2023
Collaborator. Urban forests: towards adaptation to global changes. Natural Sciences and Engineering Research Council of Canada (NSERC) Alliance Grant. (PI: Alain Paquette).	2022-26
Resilient Urban Forests for Canadians: Adapting to Climate Change for Enhanced Tree Related Benefits. Advancing Climate Change Science in Canada. Natural Sciences and Engineering Research Council of Canada (NSERC). (\$10,000)	2021-22
Local Food Ecology and Hidden Harvests in Camrose. Sustainable Food Endowment Grant. University of Alberta Augustana. (\$15,000)	2018-20
Collaborator. Earthworks for Cold Climate Water Resiliency. EcoAction Community Funding Program - Environment and Climate Change Canada. (PI: Noel St. Jean).	2019
Augustana Research Committee Funding (\$2,500)	2018



UAlberta North Funding Grant (\$2,500)	2018
Investigating forest responses to environmental change across temporal and spatial scales. University of Alberta (\$27,800)	2018-25
Collaborator. Vegetation Productivity & Phenology across the Bathurst Caribou Range - Government of Northwest Territories Cumulative Impact Monitoring Program (CIMP187). (PI: Ryan Danby)	2017-23
Queen's University Postdoc Travel Award (\$1,250)	2017
German Science Foundation RESPONSE (Biological Responses to Novel and Changing Environments) Exchange Grant. Ernst-Moritz-Arndt University Greifswald (€2,100)	2016
Robert Gilbert Postdoctoral Fellowship. Queen's University. Department of Geography and Planning (\$86,000)	2015-17
EU COST Action Scientific Grant (€500)	2011
NCCR Climate Summer School Funding (CHF 500)	2010
NSERC Northern Internship - GNWT Environment and Natural Resources (\$10,000)	2007
Alexander Graham Bell Canada Graduate Scholarship, Natural Sciences and Engineering Research Council (NSERC), Carleton University (\$35,000)	2006-07

## VI. SERVICE

### Service to the Augustana Faculty

Table Moderator. Augustana Career Mixer	2024
Faculty Mentor for Augustana Outdoors Club	2023-
Coordination of Sustainability Studies Major	2022-
Member. Indigenous Collective	2022-
Faculty Rep. Campus FairTrade Committee.	2022-
Member, AMLRS Advisory Committee & Joint Steering Committee	2021-
Faculty Rep. Augustana Sustainability & Building Design Committee	2019-
Chair. Indigenous Engagement and Advisory Committee	2020-23
Faculty Rep. Augustana Preview Day.	2022

Science Department Representative. Hiring Committee for Integrated Biology Tenure Hire.	2022
Teaching Evaluation of Academic Teaching Staff	2021
Science Department Rep - Augustana Administrative Restructuring Workshop - Academic Group	2021
Faculty Mentor for Earthwise Club	2019-20
Member on the Aboriginal Student Office (ASO) Multi-Year Planning Task Force	2019
Science Department Rep at Grad School Info Night Event	2019
Adjudicate applicants for the Pathways Program	2019
Interview Committee Member - Inclusion Alberta	2018

### **Service to the University of Alberta**

Member, University of Alberta Sustainability Council	2021-
Panelist, SDGs in Curriculum event. March 7.	2024
Plan, Coordinate & Oversee SDG Week Events at Augustana. March 4-8.	2024
Judge. Campus Sustainability Leadership Awards	2024
Presenter and Panellist. A Culture of Care: Safety Summit. Safety, Sustainably. January 24.	2024
Adjudicator. Campus Sustainability Grants	2022
Panellist. University of Alberta Climate Teach-In. March 30.	2022
Judge. UAlberta North Research Day	2019-20
UofA Augustana Representative at UNESCO Beaver Hills Biosphere Climate Resilience Action Planning Workshop. December 6.	2019

### **Service to the Profession**

#### ***Articles Reviewed***

Annals of Forest Science (1)  
Agricultural and Forest Meteorology (1)  
Arctic Science (1)  
Canadian Journal of Forest Research (1)

Dendrochronologia (2)  
 Ecosphere (1)  
 Frontiers in Ecology & Evolution (1)  
 Global Change Biology (1)  
 Journal of Biogeography (1)  
 Journal of Climate Research (1)  
 Journal of Ecology (1)  
 Journal of Geophysical Research (2)  
 PLOS One (1)  
 Theoretical and Applied Climatology (1)  
 TREES (1)

### **Grants Reviewed**

Reviewer, Alberta Conservation Association - Grants in Biodiversity (2)  
 Reviewer, Mitacs Accelerate Research Proposal (2)  
 Reviewer, National Science Foundation (1)  
 Reviewer, NSERC Discovery Grant Competition (2)

### **Other**

Coordinator of student awards competition, Ameridendro 2022

### **Service to the Wider Community**

Consulting Member - City of Camrose Green Action Committee - Urban Trees Sub-Committee	2024-
Food Artisans of Camrose County Committee Member	2021-
Presenter. "Tree-Rings: Learning to Speak the Language of Trees". Telus World of Science. Science in Motion - Climate Summit. April 17.	2024
Guest Visit to Leduc Composite High School Grade 10 Science Class - "Dendrochronology & Climate Change". November 24.	2023
Public Presentation - Film Screening & Filmmaker Visit "First We Eat". February 1.	2023
Walking Tour. "Sidewalk Shelter and More! How Trees Make the City a Better Place to Walk". Jane's Walk. Walkable Camrose. May 6.	2023
Board Member of Battle River Watershed Alliance	2019-23

Walking Tour. Urban Forest Infrastructure Tour with Camrose City Council. June 6.	2022
Presentation. Dendroarchaeology in the Beaver Hills. Rotary Club Of Camrose Daybreak. May 31.	2022
Panellist, Nobel Prize Lunch & Learn Presentation. Augustana Faculty. December 9.	2021
Walking Tour. Money Really Does Grow on Trees -- Exploring Urban Tree Benefits in Camrose. Sustainability Awareness Week. October 28	2021
Guest Visitor. "Trees & Dendrochronology". Battle River Watershed Alliance Magpie Nature Camp. August 19.	2021
Presentation. Climate Career Evening. Oeschger Centre - University of Bern. April 15.	2021
Public Presentation & Author Talk. Helena Moncrieff. "The Fruitful City: How an urban food forest grows communities". September 22.	2020
Planning & Planting of Augustana Micro-Orchard	2020
Coffee with a Climate Scientist.	2020
Judge and Activity Convener. Grade 7 Science Fair. December 4.	2019
Judge. Caring for Our Watersheds Alberta.	2018-19
Speaker and Student Workshop Facilitator. Elbow Lake Environmental Education Centre. Frontenac County, ON. May 16.	2017

## **VII. PROFESSIONAL MEMBERSHIPS/AFFILIATIONS**

Tree-Ring Society  
American Association of Geographers  
International Society of Arboriculture  
Canadian Association of Geographers  
Arctic Institute of North America

## **VIII. MEDIA COVERAGE**

Larsen L. 2024 Jun 25. Tree Survey Represents Camrose. Camrose Booster	2024
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University students and the environment. Radio Active. CBC Radio One. Edmonton, AB. (16 Apr 2024)	2024
Betkowski B. 2024 Apr 15. U of A's Augustana students help create climate resilience solutions in Camrose. Folio.	2024
Sustainable Development Goals: An Interview with Greg King. Sustainability Stories: A Sustain SU Podcast (7 Dec 2023)	2023
Tales from the Trees. Canadian Association of Science Centres - GenAction Science Spotlight. <a href="https://genaction.ca/en/science-spotlight/321">https://genaction.ca/en/science-spotlight/321</a>	2023
Beaver Hills Biosphere Video Series. Reade, D. Episode 7 (Spruce Lodge) and Episode 10 (Tyrrell and Papaschase, Part 3).	2021
Larsen L. 2021 Jul 20. Urban forests featured. Camrose Booster	2021
Kienlen A. 2021 Jun 22. No ivory tower approach to this unique partnership with farmers. Alberta Farmer Express.	2021
Brooks, Cheryl. CFCW Alberta Ag Show. Interview with Dr. Greg King about Sustainability Course at UofA Augustana. Aired in 3 segments: 24-26 May, 2021	2021
Betkowski B. 2021 May 14. Students help local food producers boost sustainability. Folio.	2021
Larsen L. 2020 Nov 10. Trees add all kinds of green. Camrose Booster.	2020
Steer, Colette. Dr. Greg King: Forest Response to Disturbance and Implications for Habitat. Grad Chat. CFRC-FM. Kingston, ON. (25 Oct 2016)	2016