Professor Paul Michael Treitz

Correspondence language: English
Canadian Residency Status: Canadian Citizen

Contact Information

The primary information is denoted by (*)

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Professor Paul Treitz

Degrees

1991/9 - 1997/5	**Doctorate, Geography (PhD), Remote Sensing, University of Waterloo** Thesis Title: Boreal Forest Ecosite Characterization at Site and Landscape Scales using Multispatial Resolution Remote Sensing Data Supervisor: Dr. Philip Howarth, 1991/9 - 1997/4
1983/9 - 1986/10	**Master's Thesis, Geography (MA), Remote Sensing, University of Waterloo** Thesis Title: The Capabilities of Two Airborne Multispectral Sensors for Identifying Coniferous Forest Species Supervisor: Dr. Philip Howarth, 1983/9 - 1986/7
1985/9 - 1986/5	**Bachelor of Education, Biology / Geography, Brock University**
1979/9 - 1983/5	**Bachelor of Science (Honours), Biology / Geography, Brock University**

Recognitions

2022/11	Elected **Fellow of the Royal Canadian Geographical Society (FRCGS)**
2017/7 - 2019/6	Nominated (2017 and 2018) for the **W.J. Barnes Teaching Excellence Award for Arts and Science**, Undergraduate Society, Queen's University, Kingston
2017/9 - 2018/4	**Julian Szeicz Award**, Queen's University, Kingston, Excellence in Teaching
2017/1 - 2017/12	**Canadian Journal of Remote Sensing 2017 Best Paper Award (2nd Place)** Canadian Remote Sensing Society *Shang, C., Treitz, P., Caspersen, J., Jones, T., 2017. Estimating stem diameter distributions in a management context for a tolerant hardwood forest using ALS height and intensity data. Canadian Journal of Remote Sensing, 43(1):79-94.
2004/9 - 2005/4	**Julian Szeicz Award**, Queen's University, Kingston, Excellence in Teaching
2003/7 - 2008/6	**Premier's Research Excellence Award** - $100,000, Ontario Modelling Forest Ecosystem Structure using Light Detection and Ranging (LiDAR)
2001/1 - 2001/12	**Boeing Autometric Award** The American Society for Photogrammetry and Remote Sensing presents the Boeing Autometric Award for Best Paper in Image Analysis and Interpretation published in Photogrammetric Engineering and Remote Sensing. Treitz, P., Howarth, P. (2000). Integrating Spectral, Spatial, and Terrain Variables for Forest Ecosystem Classification, Photogrammetric Engineering and Remote Sensing, 66(3):305-317.
1992/1 - 1993/1	**John I Davidson President's Award for Practical Papers** Presented by the American Society for Photogrammetry and Remote Sensing to commend those who publish papers of applied value in Photogrammetric Engineering and Remote Sensing. Treitz, P., Howarth, P., Gong, P. (1992). Application of Satellite and GIS Technologies for Land-Cover and Land-Use Mapping at the Rural-Urban Fringe: A Case Study, Photogrammetric Engineering and Remote Sensing, 58(4):439-448.

Employment

2009/7	Professor Geography and Planning, Arts and Science, Queen's University, Kingston
2022/9 - 2022/11	Visiting Researcher Department of Earth Sciences, University of Goteborg (Gothenburg), Sweden
2019/7 - 2022/6	Interim Head of Department Geography and Planning, Arts and Science, Queen's University, Kingston
2017/3 - 2017/5	Visiting Researcher Arctic Research Centre at Umeå University (ARCUM), Umea University, Sweden
2015/7 - 2016/6	Interim Head of Department Geography and Planning, Arts and Science, Queen's University, Kingston
2010/7 - 2015/6	Head of Department Geography, Arts and Science, Queen's University, Kingston
2008/7 - 2009/6	Associate Head of Department Geography, Arts and Science, Queen's University, Kingston
2002/7 - 2009/6	Associate Professor Geography, Arts and Science, Queen's University, Kingston
2007/7 - 2008/6	Acting Head of Department Geography, Arts and Science, Queen's University, Kingston
2002/7 - 2006/6	Graduate Chair Geography, Arts and Science, Queen's University, Kingston
1999/7 - 2002/6	Assistant Professor Geography, Arts and Science, Queen's University, Kingston
2001/4 - 2001/6	Visiting Researcher Forest Resource Management, Swedish Univ Agric Sciences, Umea, Sweden
1999/7 - 2000/6	Senior Fellow Environmental Studies, York University
1997/7 - 1999/6	Assistant Professor Geography, Arts and Environmental Studies, York University
1995/7 - 1997/6	Lecturer Geography, Arts and Environmental Studies, York University
1989/9 - 1995/6	Research Scientist Earth Observations Laboratory, Geography, University of Waterloo
1989/9 - 1995/6	Instructor Geography, Environmental Studies, University of Waterloo
1989/5 - 1989/8	Instructor Geography, Arts and Science, Trent University
1987/9 - 1989/8	Instructor Geographic Information Systems Technician Program, School of Natural Resources, Sir Sandford Fleming College

Research Funding History

2019/4 - 2024/3
Principal Investigator

Remote Sensing of Vegetation Types, Productivity and Change in the Canadian Arctic

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant
Total Funding - $180,000 (Canadian dollar)

2015/4 - 2020/3
Co-Applicant

Assessment of Wood Attributes using Remote Sensing (AWARE)

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)
Collaborative Research and Development Grant (CRD)
Total Funding - $3,350,000

Co-Applicants: Alexis Achim; Benoit St-Onge; David Maclean; Jeff Dech; John Casperson; Paul Arp; Richard Fournier

Principal Applicant: Nicholas Coops

2017/5 - 2020/3
Co-Investigator

Vegetation Productivity and Phenology across the Bathurst Caribou Range

Funding Sources:

Government of The Northwest Territories
Cumulative Impact Monitoring Program
Total Funding - $121,000

Principal Investigator: Ryan Danby

2014/4 - 2019/3
Principal Investigator

Remote Sensing of Biophysical Variables at Multiple Spatial Scales along a Latitudinal Gradient in the Canadian Arctic

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant
Total Funding - $185,000

2008/5 - 2019/12
Principal Applicant

Modelling Soil Moisture and Vegetation Community Structure using High Spatial Resolution Satellite Optical and Synthetic Aperture Radar Data for a High Arctic Watershed

Funding Sources:

Aboriginal Affairs and Northern Development Canada (AANDC)
Northern Science and Technology Program (NSTP)
Total Funding - $59,500

Co-Investigators: S. Allux, C. Braybrook, M. Bonney, A. Collingwood, R. Edwards, V. Freemantle, F. Gregory, J. Hung, N. Liu, G. Robson, A. Rudy

2015/4 - 2018/3
Co-Investigator

Water Security and Quality in a Changing Arctic

Funding Sources:

National Centers of Excellence (The) (NCOE)
ArcticNet
Total Funding - $428,122

Co-Investigators: Derek Muir; Elyn Humphreys; Myrna Simpson; Neal Scott; Vincent St.Louis

Principal Investigators: Melissa Lafreniere; Scott Lamoureux

2012/4 - 2016/3
Co-Investigator

Assessing Forest Biomass as a Bioenergy Feedstock: The Availability and Recovery of Biomass in Uneven-Aged Forests

Funding Sources:

Natural Resources Canada
ecoEnergy Innovation Initiative
Total Funding - $300,000

Co-Investigators: Murray Woods; Trevor Jones; Yuhong He

Collaborator: Denis Cormier

Principal Investigator: John Casperson

2013/4 - 2015/3
Principal Investigator

Differential InSAR and Hazard Susceptibility Mapping for Assessing Permafrost Degradation (in-kind contribution of Radarsat-2 data)

Funding Sources:

Canadian Space Agency (CSA)
Science and Operational Applications Research (SOAR)
Total Funding - $40,000

2009/4 - 2015/3
Co-Investigator

High Arctic Hydrological, Landscape and Ecosystem Responses to Climate Change: Integrated Watershed Research at the Cape Bounty Arctic Watershed Observatory, Melville Island

Funding Sources:

National Centers of Excellence (The) (NCOE)
ArcticNet
Total Funding - $450,000

Co-Investigators: Derek Muir; Elyn Humphreys; Kathy Young; Myrna Simpson; Neal Scott; Peter Lafleur; Vincent St.Louis

Principal Investigators: Melissa Lafreniere; Scott Lamoureux

2009/10 - 2013/12
Co-Investigator

Modelling High Arctic Permafrost Landscape Stability and Water Quality for Changing Climate and Resource Development

Funding Sources:

2009/10 - 2013/12 Natural Sciences and Engineering Research Council of Canada (NSERC) Strategic Grant
Total Funding - $599,075

Principal Investigators: Melissa Lafreniere; Scott Lamoureux

2011/6 - 2013/5
Principal Investigator

Precision Planning Inventory Tools for Forest Value Enhancement

Funding Sources:

2011/1 - 2013/6 National Centers of Excellence (The) (NCOE)
GEOIDE Phase IV - Strategic Investment Initiative (SII)
Total Funding - $160,000

Co-Investigator: Jeff Dech

Collaborators: Doug Pitt; Kevin Lim; Murray Woods

2009/4 - 2014/3
Principal Investigator

Remote Sensing of Environmental Change across Northern Terrestrial Ecosystems

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant
Total Funding - $180,000

2008/4 - 2012/3
Principal Investigator

Biophysical Variable Estimation for Arctic Vegetation Communities using Remote Sensing

Funding Sources:

Networks of Centres of Excellence (NCE)
ArcticNet
Total Funding - $47,000

2006/4 - 2011/3
Co-Investigator

Climate Change and Permafrost Impacts on High Arctic Watershed Fluxes: Cape Bounty, Melville Island Experimental Watershed Observatory

Funding Sources:

Government of Canada
International Polar Year
Total Funding - $770,396

Co-Investigators: Melissa Lafreniere, Neal Scott

Principal Investigator: Scott Lamoureux

2009/4 - 2011/3
Principal Applicant

Soil Moisture Modelling of Arctic Tundra Soils using Radarsat-2 SAR (in-kind contribution of Radarsat-2 data)

Funding Sources:

Canadian Space Agency (CSA)
Science and Operational Applications Research (SOAR)
Total Funding - $40,000

Collaborators: Brian Brisco; Francois Charbonneau

2007/4 - 2010/3
Principal Investigator

Evaluation and Development of LiDAR Data Acquisition Standards for Forest Inventory Applications and Predictive Forest Ecosite Classification

Funding Sources:

Ontario Centres of Excellence (OCE)
Earth and Environmental Technologies
Total Funding - $140,000

2007/4 - 2009/3
Co-Investigator

Advanced Forest Resource Inventory Technologies (AFRIT) Project, Grant, Operating

Funding Sources:

Canadian Wood Fibre Centre
Total Funding - $120,000

Co-Investigator: Murray Woods

Principal Investigator: Doug Pitt

2008/4 - 2009/3
Principal Investigator

Spectral Analysis of Vegetation Communities for Estimating Biophysical Variables of Northern Ecosystems

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)
Equipment Grant
Total Funding - $20,000

2007/4 - 2009/3
Co-Investigator

Optimizing Ontario-based Wood Pellet Production for Co-firing and Market Development and Penetration

Funding Sources:

Ontario Center of Excellence (OCE) Atikokan
Bioenergy Research Centre (ABRC)
Total Funding - $400,000

Co-Investigator: Neal Scott

Principal Investigator: Andrew Pollard

2000/4 - 2008/3
Principal Investigator

Three-Dimensional Analysis of Forest Structure and Terrain using LiDAR Technology

Funding Sources:

Centre for Research in Earth and Space Technology
Total Funding - $368,000

2003/4 - 2008/3
Principal Investigator

Modelling Forest Ecosystem Structure using Light Detection and Ranging (LiDAR)

Funding Sources:

Premier's Research Excellence Award (PREA)
Total Funding - $100,000

2004/4 - 2009/3
Principal Investigator

Spectral/Spatial/Temporal Analysis of Remote Sensing Data for Estimating Biophysical Variables of Arctic and Boreal Ecosystems

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant
Total Funding - $113,000

2002/4 - 2007/3
Co-Investigator

Fluxnet-Ontario: Understanding the Impacts of Climate, Disturbances and Management on Carbon Cycling Processes in Forest and Peatland Ecosystems

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)
BIOCAP Strategic Grant
Total Funding - $1,185,000

Principal Investigator: Harry McCaughey

2003/4 - 2007/3
Principal Applicant

Soil Moisture and Vegetation Community Structure for a High Arctic Watershed

Funding Sources:

Aboriginal Affairs and Northern Development Canada (AANDC)
Northern Studies and Training Program (NSTP)
Total Funding - $28,000

Co-Investigators: Dave Atkinson, Freya Forsythe, Andrew Maher, Kimberly Molina, Alexandra Taylor, Shanley Thompson

2003/1 - 2006/12
Principal Applicant

Biophysical Remote Sensing of Arctic Tundra Ecosystems along a Latitudinal Gradient from Melville Island to Iqaluit, NU

Funding Sources:

Natural Resources Canada
Polar Continental Shelf Project
Total Funding - $50,000 (in-kind logistical support)

2003/4 - 2006/3
Co-Applicant

LiDAR and Digital Photogrammetry for Enhanced Forest Resource Inventory

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)
BIOCAP Strategic Grant
Total Funding - $405,000

Co-Applicant: Benoit St-Onge

2002/4 - 2005/3
Co-Investigator

Cooperative Population Status and Winter Ecology Research of Peary Caribou and Muskoxen on the South-central Queen Elizabeth Islands (QEI) of Nunavut

Funding Sources:

Government of Nunavut
Wildlife Research Trust
Total Funding - $884,000

Principal Investigator: Michael Ferguson

2001/5 - 2004/9
Principal Investigator

Soil Moisture Modelling of Arctic Tundra Soils using Synthetic Aperture Radar (SAR), Nunavut

Funding Sources:

Aboriginal Affairs and Northern Development Canada (AANDC)
Northern Studies and Training Program (NSTP)
Total Funding - $7,000

Co-Investigators: Craig Sherriff; Jake Wall

2003/4 - 2004/3
Principal investigator

Winter Foraging Patterns of Peary Caribou and Muskoxen on the South-Central Queen Elizabeth Islands (QEI) of Nunavut

Funding Sources:

Environment Canada
Habitat Stewardship Program
Total Funding - $10,500

1999/7 - 2003/6
Principal Investigator

Laboratory for Remote Sensing of Earth and Environmental Systems

Funding Sources:

Queen's University
Research Initiation Grant
Total Funding - $98,000

1999/4 - 2004/3
Principal Investigator

Spectral/Spatial/Temporal Analysis of Optical Remote Sensing Data for Mapping Forest Ecosites and Ecological/Biophysical Parameters

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)
Discovery Grant
Total Funding - $115,000

2001/4 - 2002/3
Co-Investigator

Forestry Practices and Carbon Sequestration in Ontario

Funding Sources:

Natural Sciences and Engineering Research Council of Canada (NSERC)
BIOCAP Total Funding - $96,000

Principal Investigator: Harry McCaughey

1997/4 - 2002/3
Co-Investigator

CIDA Collaborative Environment Project in Indonesia (CEPI)

Funding Sources:

Canadian International Development Agency (CIDA)
University Consortium on the Environment (UCE)
Total Funding - $1,200,000

Co-Applicants: Bruce Mitchell; Edward Spence

Co-Investigators: Ellsworth LeDrew, Geoff Wall

2000/4 - 2002/3
Co-Applicant

Three-Dimensional Analysis of Forest Structure and Terrain using LiDAR Technology

Funding Sources:

National Centers of Excellence (The) (NCOE)
GEOIDE Total Funding - $220,000

Co-Applicant: Benoit St-Onge

2001/4 - 2002/3
Co-Applicant

Detection and Mapping of Purple Loosestrife in Wetlands of Southeastern Ontario using CASI and IKONOS Data, Grant, Operating

Funding Sources:

Centre for Research in Earth and Space Technology
Total Funding $58,000

Co-applicant: Dennis Jelinski

1999/4 - 2002/3
Co-Investigator

Imaging Spectroscopy for the Management of the Canadian Landscape with emphasis on the Boreal Forest and the Tundra

Funding Sources:

National Centers of Excellence (The) (NCOE)
GEOIDE
Total Funding - $210,000

Co-investigators: Benoit Rivard, Karl Staenz, Jing Chen

Principal Investigator: John Miller

2001/5 - 2001/9
Co-Applicant

Integrated Hydrometeorological, Biophysical and Paleological Measurements, Boothia Peninsula, Nunavut

Funding Sources:

Natural Resources Canada
Polar Continental Shelf Project
Total Funding - $40,000 (in-kind logistical support)

Co-Applicant: Scott Lamoureux

2001/5 - 2001/9
Principal Investigator

A Remote Sensing Field-based Approach for Estimating the Spatial Distribution of Biomass for an Arctic Watershed, Boothia Peninsula, Nunavut

Funding Sources:

Aboriginal Affairs and Northern Development Canada (AANDC)
Northern Studies and Training Program (NSTP)
Total Funding - $5,000

Co-Investigator: Gita Laidler

2000/4 - 2001/3
Principal Investigator

Soil Moisture Modelling of Arctic Tundra Soils using Synthetic Aperture Radar

Funding Sources:

Queen's University
Principal's Development Fund
Total Funding - $9,600

1998/4 - 1999/3
Principal Investigator

Research Laboratory for Spatial Modelling of Earth and Environmental Systems

Funding Sources:

Canada Foundation for Innovation (CFI)
Total Funding - $162,000

Co-Investigators: Qiuming Cheng, Grant Sheng

1998/4 - 1999/3
Co-investigator

Optical Indices as Bioindicators of Forest Sustainability, Grant, Operating

Funding Sources:

Centre for Research in Earth and Space Technology
Total Funding - $106,240

Principal Investigator: John Miller

1996/4 - 1998/3
Principal Investigator

Radar for an Agricultural Monitoring System

Funding Sources:

Institute for Space and Terrestrial Science
Total Funding - $14,200

1996/4 - 1998/3
Co-investigator

Assessment of Radarsat SAR Data for Crop Classification

Funding Sources:

Canadian Space Agency (CSA)
Applications Development and Research Opportunities (ADRO)
Total Funding - $106,240

Principal Investigator: Philip Howarth

1993/4 - 1997/3
Co-Investigator

Airborne and satellite Remote Sensing for Forest Ecosystem Classification

Funding Sources:

Canadian Forest Service (CFS)
Northern Forest Program
Total Funding - $24,200

Principal Investigator: Philip Howarth

Courses Taught (Queen's University)

Instructor, Geography and Planning, Queen's University, Kingston
Course Title: Physical Geography and Natural Resources
Course Code: GPHY 102

Instructor, Geography and Planning, Queen's University, Kingston
Course Title: Principles of Biogeography
Course Code: GPHY 207

Instructor, Geography and Planning, Queen's University, Kingston
Course Title: Remote Sensing I - Remote Sensing of Environment
Course Code: GPHY 242

Instructor, Geography and Planning, Queen's University, Kingston
Course Title: Climate Change
Course Code: GPHY 314

Instructor, Geography and Planning, Queen's University, Kingston
Course Title: Remote Sensing II - Digital Image Processing
Course Code: GPHY 342

Instructor, Geography and Planning, Queen's University, Kingston
Course Title: Conceptual and Methodological Basis of Geography
Course Code: GPHY 801

Instructor, Geography and Planning, Queen's University, Kingston
Course Title: Remote Sensing of Earth and Environmental Systems
Course Code: GPHY 842

Instructor, Geography and Planning, Queen's University, Kingston

Course Title: Geography Research Seminar
Course Code: GPHY 857

Courses Taught (York University)

Instructor, Geography, York University, Toronto
Course Title: Introductory Statistical Analysis
Course Code: GEOG 2420

Instructor, Geography / Environmental Studies, York University, Toronto
Course Title: Environmental Remote Sensing
Course Code: GEOG 3440 / ENVS 3521

Instructor, Geography / Environmental Studies, York University, Toronto
Course Title: Remote Sensing and Image Processing for Geographical Analysis and Environmental Monitoring
Course Code: GPHY 4440 / ENVS 4521

Instructor, Environmental Studies, York University, Toronto
Course Title: Geographical Information System Applications in Environmental Studies
Course Code: GEOG 4520

Instructor, Geography / Environmental Studies, York University, Toronto
Course Title: Remote Sensing and Image Processing for Geographical Analysis and Environmental Monitoring
Course Code: GEOG 5015 / ENVS 6188

Instructor, Environmental Studies, York University, Toronto
Course Title: Geographical Information Systems Applications in Planning and Resource Management
Course Code: ENVS 6189 (with Edward Spence)

Instructor, Environmental Studies, York University, Toronto
Course Title: Advanced Geographic Information Systems for Environmental Studies Applications
Course Code: ENVS 7189

Courses Taught (University of Waterloo)

Instructor, Geography, University of Waterloo, Waterloo
Course Title: Environmental Remote Sensing
Course Code: GPHY 376

Instructor, Geography, University of Waterloo, Waterloo
Course Title: Advanced Remote Sensing
Course Code: GPHY 471 (with Philip Howarth)

Instructor, Geography, University of Waterloo, Waterloo
Course Title: Spatial Data Handling
Course Code: GPHY 600 (with Grant Head)

Courses Taught (Trent University)

Instructor, Geography, Trent University, Peterborough
Course Title: Manual and Digital Remote Sensing
Course Code: GPHY 399

Courses Taught (School of Natural Resources, Sir Sandford Fleming College)

Instructor, Geographic Information Systems Applications Specialist Program
Course Title: Digital Remote Sensing

Instructor, Natural Resources Program
Course Title: Photogrammetry and Airphoto Interpretation for Forestry
Course Title: Airphoto Interpretation for Terrain Analysis
Course Title: Airphoto Interpretation for Fish and Wildlife

Manager, Centre for Advanced Resource Measurement and Assessment (CARMA)
Installation and maintenance of image processing and geographic information systems software

Program Development

2005/9 Lead Author - Program Proposal, Geography, Queen's University, Kingston

Program Title: Certificate in Geographic Information Science (GISc)

Course Level: Undergraduate

Program Description: Geographic Information Science (GISc) is the broad umbrella under which geospatial data are collected, processed, and analyzed. The Department of Geography and Planning offers a Certificate in GISc to enhance the skills of students not only in Geography and cognate disciplines, but across the gamut of concentrators in the university. Beyond technical skills, the Certificate in GISc equips students with a deeper understanding of the geographic and environmental concepts that underlie GISc.

1999/6 Lead Author - Program Proposal, Geography, Faculty of Arts; Environmental Studies; Earth and Atmospheric Science, Faculty of Science; York University, Toronto

Program Title: Geographic Information Systems and Remote Sensing Certificate Program

Course Level: Undergraduate

Program Description: While at York University, I led the development of a comprehensive new program in Geographic Information Systems and Remote Sensing that included three faculties (Faculty of Arts, Faculty of Environmental Studies, and Faculty of Science). This required a tremendous amount of collaboration among faculty and administrators in these three Faculties to be approved by York Senate.

Student/Postdoctoral Supervision

Bachelor's Honours [n=18]

2015/5 - 2016/4 Principal Supervisor	Ezzio, Sarah, Queen's University An Analysis of Seasonal Digital Hemispherical Photographs for the Determination of Woody-to-Total-Area Ratios and Leaf Area Index (LAI) for a Mixedwood Forest
2013/9 - 2014/4 Principal Supervisor	Gunn, Emma, Queen's University Estimating Canopy Volume for Forest Ecosite Types using LiDAR Data
2011/9 - 2012/4 Principal Supervisor	Schmied, Sarah, Queen's University The Comparison Between Differing Point-Density Multi-Temporal LiDAR Data to Detect Forest Growth in the Petawawa Research Forest using 2007 and 2012 Data
2011/9 - 2012/4 Co-Supervisor	Eastwood, Sadie, Queen's University High Resolution Time Series Photography for Monitoring Forest Canopy Phenology
2010/5 - 2011/4 Co-Supervisor	Tamminga, Aaron, Queen's University A Biogeochemical Examination of Ontario's Boreal Forest Ecosite Classification System
2010/5 - 2012/9 Principal Supervisor	McLeod, Fraser, Queen's University LiDAR Remote Sensing for Forest Resource Inventory
2009/9 - 2010/4 Principal Supervisor	Keyvan Parnevah, Queen's University Vegetation Phenology and NDVI Time Series
2009/5 - 2010/4 Co-Supervisor	Gagliardi, Stephanie, Queen's University Ecosite Classification and Forest Productivity: An Analysis of the Relations between Canopy Structure and Ecosite Class
2008/9 - 2009/4 Principal Supervisor	Hagerman, Anne, Queen's University Estimating Basal Area in Tolerant Hardwood Stands Using LiDAR: An Investigation of Field Basal Area Census Methods
2007/9 - 2008/4 Co-Supervisor	Valiquette, Luc, Queen's University Terrestrial Laser Scanning of Building Facades
2007/9 - 2008/4 Principal Supervisor	Gralewicz, Nicholas, Queen's University LiDAR Estimation of Biophysical Variables in Pristine Northern Tolerant Hardwood Stands
2007/9 - 2008/4 Principal Supervisor	Fedrigo, Melissa, Queen's University A Comparison of Digital Elevation Models Derived from Topographic Maps and Airborne LiDAR data under Varying Forest Canopy Densities
2006/9 - 2007/4 Principal Supervisor	Farrar, Andrew, Queen's University A Comparison of Wetland Classification Accuracy using IKONOS-2 and Landsat-5 Satellite Imagery: A Case Study of Bastard Township Ontario
2006/5 - 2007/4 Principal Supervisor	Molina, Kimberly, Queen's University Mid-Arctic Vegetation: Community Structure Effects on Soil Carbon, Nitrogen and Water
2005/5 - 2006/4 Principal Supervisor	Thompson, Shanley, Queen's University Soil Moisture and Vegetation Patterns on Boothia Peninsula, NU
2004/9 - 2005/4 Principal Supervisor	Forsyth, Freya, Queen's University Soil Moisture and Arctic Plant Community Structure

2001/9 - 2002/4	Andrew-McBride, Peter, Queen's University
Principal Supervisor	The Effects of Radarsat Incidence Angle on Agricultural Crop Statistics
2001/1 - 2002/4	Sheriff, Craig, Queen's University
Principal Supervisor	Soil Moisture Estimation of Arctic Soils using Synthetic Aperture Radar (SAR)

Master's Thesis [n=28]

2018/9 - 2020/8	Yaacoub, Sandra, Queen's University
Co-Supervisor	Assessment of Spruce Beetle Impacts on Boreal Forests in Southwest Yukon Using Imaging Spectroscopy (AVIRIS) and Laser Scanning Data (LVIS) [Accelerated to the PhD Program on 2023/01.]
2018/9 - 2020/8	Robson, Greg, Queen's University
Co-Supervisor	Seasonal Ground Surface Change Detected by DInSAR at Cape Bounty, Melville Is., NU
2018/5 - 2020/8	Braybrook, Christina, Queen's University
Principal Supervisor	Impact of Environmental Variability on Net Ecosystem CO2 Exchange from 2008-2018 at a High Arctic Mesic Tundra Site
2016/9 - 2019/12	Freemantle, Valerie, Queen's University
Principal Supervisor	A High Spatial Resolution Satellite Remote Sensing Time Series Analysis of Cape Bounty, Melville Island, Nunavut (2004-2018)
2016/9 - 2019/12	Marczak, Paulina, Queen's University
Co-Supervisor	Predicting Carbon Accumulation in Temperate Forests of Ontario using a LiDAR-Initialized Growth-and-Yield Model
2015/9 - 2017/8	Bonney, Mitchell, Queen's University
Co-Supervisor	Landscape Variability of Vegetation Change across the Forest to Tundra Transition of Central Canada
2014/9 - 2016/8	Edwards, Rebecca, Queen's University
Principal Supervisor	Remote Sensing of Vegetation Change across a Latitudinal Gradient in the Canadian Arctic
2013/9 - 2015/12	Blaser, Amy, Queen's University
Co-Supervisor	Spatial and Temporal Patterns of Carbon Dioxide Exchange for a Wet Sedge Plant Community, Melville Island, NU
2012/9 - 2015/4	Buckley, Emma, Queen's University
Co-Supervisor	Spatial and Temporal Patterns of Net Carbon Exchange in the Polar Semi-Desert Vegetation Type on Melville Island, NU
2010/9 - 2013/12	Allux, Sarah, Queen's University
Principal Supervisor	Hyperspectral and Broad-Band Indices for Characterizing High Arctic Vegetation (The candidate withdrew (in good standing) from the MSc program for health reasons.)
2010/9 - 2012/8	Pope, Graham, Queen's University
Principal Supervisor	LiDAR and Worldview-2 Satellite Data for Leaf Area Index Estimation in the Boreal Forest
2009/9 - 2011/8	Cassidy, Alison, Queen's University
Co-Supervisor	The Effects of Recent and Relict Permafrost Disturbances on Tundra Vegetation, Cape Bounty, Melville Island, NU
2008/9 - 2010/4	Kim, Stephen, Queen's University
Co-Supervisor	Spatial Modelling of Biomass and Productivity using SPOT satellite Data (The candidate withdrew (in good standing) from the MSc program.)

2008/9 - 2010/8 Co-Supervisor	Southee, Florence, Queen's University Ecological Land Classification and Soil Moisture Modelling in the Boreal Forest using LiDAR Remote Sensing
2008/9 - 2011/4 Co-Supervisor	McQuat, Gregory, Queen's University Feature Extraction Workflows for Urban Mobile-Terrestrial LiDAR Data
2007/9 - 2011/4 Co-Supervisor	Gregory, Fiona, Queen's University Biophysical Remote Sensing and Terrestrial CO2 Exchange at Cape Bounty, Melville Island
2006/8 - 2008/9 Co-Supervisor	Shulman, Holly, Queen's University Estimating Evacuation Vulnerability of Urban Transportation Systems Using GIS
2003/9 - 2005/8 Principal Supervisor	Maher, Andrew, Queen's University Assessing Snow Cover and Its Relationship to Distribution of Peary Caribou in the High Arctic
2003/9 - 2005/8 Co-Supervisor	Taylor, Alexandra, Queen's University Inuit Qaujimajatuqangit about Population Changes and Ecology of Peary Caribou and Muskoxen on the High Arctic Islands of Nunavut
2002/9 - 2005/8 Principal Supervisor	Hessing-Lewis, Margot, Queen's University Assessing the Potential for Eelgrass Restoration in the Squamish Estuary, British Columbia
2002/9 - 2005/8 Principal Supervisor	Wall, Jake, Queen's University Arctic Remote Sensing of Soil Moisture with Multi-Temporal SAR Imagery
2000/9 - 2002/6 Principal Supervisor	Laidler, Gita, Queen's University Multi-Resolution Remote Sensing Data for Characterizing Tundra Vegetation Communities on Boothia Peninsula, Nunavut
1999/9 - 2001/8 Principal Supervisor	Thomas, Valerie, Queen's University Hyperpsectral Assessment of Acer Saccharum Forest Structure
1998/9 - 2002/5 Principal Supervisor	Prenzel, Bjorn, York University Remote Sensing and GIS for Thematic Land Surface Analysis and Monitoring: A Case Study of the Tondano Study Area, Sulawesi, Indonesia
1997/9 - 1999/6 Principal Supervisor	Thomas Lee, York University Identifying Ecological Communities in the Temagami Region (4E4)
1997/9 - 1999/6 Principal Supervisor	Gosia Bryja, York University Connectivity and Development of a Protected Areas Network in Ontario
1997/9 - 2000/8 Principal Supervisor	Sampson, Paul, York University Forest Condition Assessment: An Examination of Scale, Structure and Function using High Spatial Resolution Remote Sensing Data
1996/9 - 1998/8 Principal Supervisor	Bruce McNally, York University Effects of Incidence Angle on Radarsat SAR Backscatter and Texture Statistics for an Agricultural Environment (The candidate withdrew (in good standing) from the MSc program for health reasons.)

Doctorate [n=13]

2023/1 - 2025/12 Co-Supervisor	Yaacoub, Sandra, Queen's University Assessment of Spruce Beetle Impacts on Boreal Forests in Southwest Yukon Using Imaging Spectroscopy (AVIRIS) and Laser Scanning Data (LVIS)

2017/9 - 2023/8 Principal Supervisor	Kuzmich, Rachel, Queen's University Modelling Forest Structure for Songbird Habitat Analyses using ALS data
2017/9 - 2021/8 Co-Supervisor	Hung, Jacqueline, Queen's University Controls on Terrestrial Carbon and Nutrient Cycling in Arctic Permafrost Environments
2013/9 - 2018/6 Principal Supervisor	Shang, Chen, Queen's University Modelling Forest Inventory and Biophysical Variables for an Uneven-Aged Forest using Multi-Source Remotely Sensed Data
2012/9 - 2016/12 Co-Supervisor	Rudy, Ashley, Queen's University Landscape Patterns of Permafrost Disturbance and Degradation in the Canadian High Arctic
2012/9 - 2017/5 Principal Supervisor	Liu, Nanfeng, Queen's University Remote Sensing of the Canadian Arctic: Modelling Biophysical Variables
2010/3 - 2014/10 Co-Supervisor	Middleton, Maarit, University of Helsinki Hyperspectral Remote Sensing of Mires in Finland
2009/9 - 2014/12 Principal Supervisor	Collingwood, Adam, Queen's University Modeling Biophysical Variables in the Canadian High Arctic using Synthetic Aperture Radar Data
2005/9 - 2015/3 Co-Supervisor	Ewijk, Karin van, Queen's University Estimating Forest Structure from LiDAR and High Spatial Resolution Imagery for the Prediction of Succession and Species Composition
2004/9 - 2012/12 Principal Supervisor	Atkinson, David, Queen's University Modelling Biophysical Variables and Carbon Dioxide Exchange in Arctic Tundra Landscapes using High Spatial Resolution Remote Sensing Data
2004/9 - 2012/12 Co-Supervisor	Pilger, Neal, Queen's University Analysis of Forest Biomass and Carbon Stocks using LiDAR (Mr. Pilger withdrew (in good standing) from the PhD program to focus full time on his business venture.
2002/9 - 2008/4 Co-Supervisor	Chasmer, Laura, Queen's University Canopy Structural and Meteorological Influences on CO2 Exchange for MODIS Product Validation in a Boreal Jack Pine Chronosequence
2002/9 - 2006/8 Principal Supervisor	Lim, Kevin, Queen's University LiDAR Remote Sensing of Forest Canopy and Stand Structure
2001/9 - 2006/5 Co-Supervisor	Thomas, Valerie, Queen's University Spatially Explicit Modelling of Forest Structure and Function using Airborne LiDAR and Hyperspectral Remote Sensing Data Combined with Micrometeorological Measurements

Post-doctorate [n=2]

2015/7 - 2019/12 Principal Supervisor	Ewijk, Karin van, Queen's University Assessment of Wood Attributes using Remote Sensing (AWARE)
2002/9 - 2003/12 Principal Supervisor	Christopher Hopkinson, Queen's University Terrestrial and Airborne Laser Scanning for Forestry

Editorial Activities

2017/7	Associate Editor, Arctic Science, Journal
2021/1 - 2022/12	Co-Editor - Special Issue, Remote Sensing, 2022. Special Issue - Advances in Terrestrial Remote Sensing of Arctic Environments, Vol. 13, (Eds. Reese, H. and Treitz, P.)
2010/1 - 2010/12	Co-Editor - Special Issue, Canadian Journal of Remote Sensing, 2010. Special Issue for the International Polar Year (IPY), Vol. 36, (Supplemental 1) (Eds. Derksen, C. and Treitz, P.)
2003/1 - 2006/12	Associate Editor, Canadian Journal of Forest Research
2004/1 - 2004/12	Editor - Special Issue, Progress in Planning, 2004. Remote Sensing for Mapping and Monitoring Land-Cover and Land-Use Change, Vol. 61(4).

Conference Review Activities

2012/1 - 2012/12	Scientific Steering Committee, 32nd Canadian Symposium on Remote Sensing, Ottawa, ON, Canada
2017/1 - 2017/12	Scientific Steering Committee, Silvilaser 2017, Virginia Tech, Blacksburg, Virginia, USA,
2012/1 - 2012/12	Special Session Organizer and Chair, Remote Sensing of Northern Environments, Canadian Association of Geographers – Ontario Division, Kingston, ON, Canada
2012/1 - 2012/12	Scientific Steering Committee, 32nd Canadian Symposium on Remote Sensing, Ottawa, ON, Canada
2012/1 - 2012/12	Scientific Steering Committee, Silvilaser 2012, Vancouver, BC, Canada
2011/1 - 2011/12	Scientific Steering Committee, Silvilaser 2011, Tasmania, Australia
2010/1 - 2010/12	Scientific Steering Committee, Canadian Symposium on Remote Sensing, University of Regina, Regina, SK, Canada
2010/1 - 2010/12	Scientific Steering Committee, Silvilaser 2010: 9th International Conference on Lidar Applications for Assessing Forest Ecosystems, Freiburg, Germany
2009/1 - 2009/12	Scientific Steering Committee, Canadian Symposium on Remote Sensing - Bridging Excellence, University of Lethbridge, Lethbridge, AB, Canada
2009/1 - 2009/12	Scientific Steering Committee, Silvilaser 2009: 9th International Conference on Lidar Applications for Assessing Forest Ecosystems, October 14-16, 2009, Texas A&M University, College Station, TX USA
2009/1 - 2009/12	Scientific Steering Committee, Fifth international Workshop on the Analysis of Multitemporal Remote Sensing Images, July 28-30, 2009, Mystic, Connecticut, USA, Mystic, Connecticut, USA
2008/1 - 2008/12	Scientific Steering Committee, Silvilaser 2008: 8th international conference on LiDAR applications in forest assessment and inventory, September 2008, Edinburgh, UK.
2006/1 - 2006/12	Scientific Steering Committee, Session Chair, Expert Panel Member, Silvilaser 2006: LiDAR Applications in Forest Inventory and Assessment, Matsuyama Echime, Japan
2003/1 - 2003/12	Scientific Steering Committee, Session Chair, Expert Panel Member, Scandlaser Scientific Workshop on Airborne Laser Scanning of Forests, Swedish University of Agricultural Sciences, Umea, Sweden

Graduate Examination Activities

2020/9	PhD Comprehensive Exam Committee Member, Kimberly Hill-Tout, Geography and Planning, Queen's University, Kingston
2019/9	PhD Comprehensive Exam Committee Member, Erika Hille, Geography and Planning, Queen's University, Kingston
2018/9	PhD Comprehensive Exam Committee Member, Carolyn Bonta, Geography and Planning, Queen's University, Kingston
2018/9	PhD Comprehensive Exam Committee Member, Julianah Adediji, Geography and Planning, Queen's University, Kingston
2017/9	PhD Comprehensive Exam Committee Member, Kristen Jones, Geography and Planning, Queen's University, Kingston
2017/9	Committee Member, Mohammad Hossain, Geography and Planning, Queen's University, Kingston
2017/9	Committee Member, Jordan Carlson, Geography and Planning, Queen's University, Kingston
2017/9	Committee Member, Anna DeSellas, Biology, Queen's University, Kingston
2017/9	PhD Comprehensive Exam Committee Member, Shyra Barberstock, Geography and Planning, Queen's University, Kingston
2017/9	Committee Member, Mark Ousley, Geography and Planning, Queen's University, Kingston
2017/9	PhD Comprehensive Exam Committee Member, Ryan Barberstock, Geography and Planning, Queen's University, Kingston
2020/9 - 2023/1	Master's Oral Exam Member, Anika Forget, Geography and Planning, Queen's University, Kingston
2018/9 - 2022/6	PhD Comprehensive Exam Committee Member, Lindsay Fair, Geography and Planning, Queen's University, Kingston
2017/9 - 2022/4	Committee Member, Matt Duda, Biology, Queen's University, Kingston
2019/9 - 2022/2	Master's Oral Exam Member, Reza Aalaeifar, Geography and Planning, Queen's University, Kingston
2015/9 - 2022/2	Committee Member, Peter Milley, Geography and Planning, Queen's University, Kingston
2018/9 - 2022/1	Committee Member, Shahab Eddin Jozdani, Geography and Planning, Queen's University, Kingston
2019/9 - 2021/10	Master's Oral Exam Member, Jeremiah Lee, Geography and Planning, Queen's University, Kingston
2017/9 - 2021/9	Committee Member, Brigitte Simmatis, Biology, Queen's University, Kingston
2017/9 - 2021/8	Committee Member, Robin Valleau, Biology, Queen's University, Kingston
2019/9 - 2021/5	Master's Oral Exam Member, Chris Wilkins, Biology, Queen's University, Kingston
2018/9 - 2020/10	Master's Oral Exam Member, Daniella Gonzales, Geology and Geological Engineering, Queen's University, Kingston

2014/9 - 2020/9	Committee Member, Daniel Lamhonwah, Geography and Planning, Queen's University, Kingston
2018/9 - 2020/8	Master's Oral Exam Member, Alyssa Alexander, Geography and Planning, Queen's University, Kingston
2015/9 - 2020/8	Committee Member, Nick Cairns, Biology, Queen's University, Kingston
2018/9 - 2020/4	Master's Oral Exam Member, Basil Southey, Geography and Planning, Queen's University, Kingston
2015/9 - 2020/1	Committee Member, Jean Blair, Geography and Planning, Queen's University, Kingston
2017/9 - 2019/9	Master's Oral Exam Member, Mike Stefanuk, Environmental Studies, Queen's University, Kingston
2015/9 - 2019/8	PhD Oral Exam Member, Cassey Beel, Geography and Planning, Queen's University, Kingston
2017/9 - 2019/6	Master's Oral Exam Member, Sarah McFadden, Geography and Planning, Queen's University, Kingston
2014/9 - 2019/5	Committee Member, Mingji Song, Geography and Planning, Queen's University, Kingston
2015/9 - 2018/9	Master's Oral Exam Member, Richard Carter, Geology and Geological Engineering, Queen's University, Kingston
2012/9 - 2018/8	PhD Comprehensive Exam Committee Member, Mary Campeau, Geography and Planning, Queen's University, Kingston
2015/9 - 2017/12	Master's Oral Exam Member, Jingyi Liu, Environmental Studies, Queen's University, Kingston
2013/9 - 2017/12	PhD External Examiner, Blair Kennedy, Geography and Environmental Studies, Carleton University
2013/9 - 2017/12	PhD Oral Exam Chair, Aliyah Alshamrani, Chemistry, Queen's University, Kingston
2014/9 - 2017/9	Master's Oral Exam Member, Jessica Peters, Geography and Planning, Queen's University, Kingston
2013/9 - 2017/9	PhD Oral Exam Member, Ryan Kromer, Geology and Geological Engineering, Queen's University, Kingston
2012/9 - 2017/9	Committee Member, Katherine Dearborne, Geography and Planning, Queen's University, Kingston
2013/9 - 2017/8	PhD External Examiner, Rong Wang, Geography and Planning, University of Toronto
2014/9 - 2016/8	PhD Comprehensive Exam Committee Member, Paul Whitely, Queen's University, Kingston
2013/9 - 2016/2	Master's Oral Exam Member, Elizabeta Kjikjerkovska, Geography and Planning, Queen's University, Kingston
2010/9 - 2016/2	PhD External Examiner, Raymond Struthers, Biosciences Engineering, Katholieke Universiteit Leuven (Dutch)
2013/9 - 2015/11	Master's Oral Exam Member, Megan MacCallum, Geography and Planning, Queen's University, Kingston

2013/9 - 2015/11	Master's Oral Exam Member, Christopher Bolduc, Geography and Planning, Queen's University, Kingston
2013/9 - 2015/9	Master's Oral Exam Member, Lucas Brehaut, Geography and Planning, Queen's University, Kingston
2013/9 - 2015/8	Master's Oral Exam Member, Gurveer Bains, Geography and Planning, Queen's University, Kingston
2011/9 - 2015/8	PhD External Examiner, Justin Adams, Geography, University of Guelph
2011/9 - 2015/7	PhD Oral Exam Chair, Laura Kelly, Political Studies, Queen's University, Kingston
2011/9 - 2015/6	PhD External Examiner, Nagwa El-Ashmawy, Geography, Ryerson University
2013/9 - 2015/5	Master's Oral Exam Member, Su Ye, Environmental Studies, Queen's University, Kingston
2012/9 - 2015/4	PhD Comprehensive Exam Committee Member, Lekhnath Ghimira, Geography and Planning, Queen's University, Kingston
2012/9 - 2014/8	PhD Comprehensive Exam Committee Member, Hannah Johnson, Geography and Planning, Queen's University, Kingston
2011/9 - 2014/5	Master's Oral Exam Member, Nicole Louisize, Geography and Planning, Queen's University, Kingston
2012/9 - 2014/4	Master's Oral Exam Member, Andrew Labaj, Biology, Queen's University, Kingston
2008/9 - 2014/4	PhD Comprehensive Exam Committee Member, Peter Luciani, Geography, Queen's University, Kingston
2012/9 - 2014/3	PhD Comprehensive Exam Committee Member, Mitch Patterson, Geography, Queen's University, Kingston
2011/9 - 2014/1	Master's Oral Exam Member, Brian Kielstra, Biology, Queen's University, Kingston
2011/9 - 2013/12	Master's Oral Exam Member, Jean Blair, Geography, Queen's University, Kingston
2012/9 - 2013/9	PhD Comprehensive Exam Committee Member, Rob Andrews, Mechanical Engineering, Queen's University, Kingston
2011/9 - 2013/9	Master's Oral Exam Member, Elena Favaro, Geography, Queen's University, Kingston
2011/9 - 2013/7	Master's Oral Exam Member, Anthony Bassutti, Geography, Queen's University, Kingston
2009/9 - 2013/6	PhD External Examiner, Anneli Jokela, Biology, Queen's University, Kingston
2009/9 - 2013/6	Committee Member, Kirby Calvert, Geography, Queen's University, Kingston
2011/9 - 2013/4	Master's Oral Exam Member, Andrea Mager, Geography, Queen's University, Kingston
2010/9 - 2012/12	Master's Oral Exam Member, Amanda Graham, Geography, Queen's University, Kingston
2008/9 - 2012/12	PhD External Examiner, Marius Hauglin, Ecology and Natural Resources Management, Norwegian University of Science and Technology
2011/9 - 2012/9	PhD Comprehensive Exam Committee Member, Rob Andrews, Mechanical Engineering, Queen's University, Kingston
2007/9 - 2012/9	Committee Member, Kristopher Hadley, Biology, Queen's University, Kingston

2010/9 - 2012/8	Master's Oral Exam Member, Ashley Lowcock, Geography, Queen's University, Kingston
2007/9 - 2012/6	Committee Member, Jennifer Korosi, Biology, Queen's University, Kingston
2007/9 - 2012/6	Committee Member, Wenbau Liu, Geography, Queen's University, Kingston
2008/9 - 2012/3	Committee Member, Dennis Duro, Geography, University of Saskatchewan
2009/9 - 2012/1	Master's Oral Exam Member, Erin Jaggard, Geography, Queen's University, Kingston
2009/9 - 2011/12	Master's Oral Exam Member, Patrick Turko, Biology, Queen's University, Kingston
2007/9 - 2011/12	Committee Member, Derek Gray, Biology, Queen's University, Kingston
2006/9 - 2011/10	PhD External Examiner, Heather Reese, Forest Resource Management, Swedish University of Agricultural Sciences
2009/9 - 2011/5	Master's Oral Exam Member, Ha Nguyen, Mechanical Engineering, Queen's University, Kingston
2009/9 - 2011/5	PhD Comprehensive Exam Committee Member, Ron Roy, Geography, Queen's University, Kingston
2007/9 - 2011/5	PhD External Examiner, Gang Chen, Geography, The University of Calgary
2006/9 - 2011/4	Committee Member, Scott Taylor, Biology, Queen's University, Kingston
2006/9 - 2011/3	Committee Member, Adam Jerzioski, Biology, Queen's University, Kingston
2006/9 - 2010/12	PhD External Examiner, Julia Linke, Geography, The University of Calgary
2005/9 - 2010/12	Committee Member, Amy Chabot, Biology, Queen's University, Kingston
2008/9 - 2010/9	Master's Oral Exam Member, Emil Laurin, Geography, Queen's University, Kingston
2008/9 - 2010/7	Master's Oral Exam Member, Melanie Kingsbury, Biology, Queen's University, Kingston
2005/9 - 2009/6	PhD External Examiner, Jon Pasher, Geography and Environmental Studies, Carleton University
2003/9 - 2009/4	Committee Member, Graeme Watson, Environmental Chemistry, Royal Military College of Canada
2008/9 - 2009/2	Candidacy Committee Chair, Kelsey Beach, Geography, Queen's University, Kingston
2004/9 - 2008/12	Committee Member, Jie Tian, Geography, Queen's University, Kingston
2006/9 - 2008/10	Master's Oral Exam Member, Johan Brinkorst, Chemistry, Queen's University, Kingston
2004/9 - 2008/9	Committee Member, Matthew Reudnik, Biology, Queen's University, Kingston
2004/9 - 2008/9	PhD Comprehensive Exam Committee Member, Kailey Stewart, Geography, Queen's University, Kingston
2004/9 - 2008/6	PhD Oral Exam Member, Jackie Cockburn, Geography, Queen's University, Kingston
2004/9 - 2008/6	Committee Member, Udaya Fawziah, Biology, Université du Québec à Montréal
2006/9 - 2008/5	Master's Oral Exam Member, Brock McLeod, Geography, Queen's University, Kingston
2006/9 - 2008/5	Master's Oral Exam Member, Sarah Crookshanks, Geography, Queen's University, Kingston
2006/9 - 2008/5	Master's Oral Exam Chair, David van Geyn, Computing, Queen's University, Kingston
2005/9 - 2008/4	Committee Member, Carole Chueng, Biology, Queen's University, Kingston

2005/9 - 2007/9	Master's Oral Exam Member, Justin Shead, Biology, Queen's University, Kingston
2005/9 - 2007/9	Master's Oral Exam Member, Dana MacDonald, Geography, Queen's University, Kingston
2003/9 - 2007/6	PhD Oral Exam Member, Kyle Hodder, Geography, Queen's University, Kingston
2005/9 - 2007/5	Master's Oral Exam Chair, Wei Liu, Sociology, Queen's University, Kingston
2005/9 - 2007/4	Master's Oral Exam Member, Bill Pain, Civil Engineering, Queen's University, Kingston
2000/9 - 2007/4	PhD Comprehensive Exam Committee Member, Krystopher Chutko, Geography, Queen's University, Kingston
2004/9 - 2007/1	Master's Oral Exam Member, Jianhui Chen, Computing, Queen's University, Kingston
2004/9 - 2007/1	Master's Oral Exam Member, Stephen Chen, Computing, Queen's University, Kingston
2004/9 - 2006/9	Master's Oral Exam Member, Jamie Fitzgibbon, Geography, Queen's University, Kingston
2004/9 - 2006/9	Master's Oral Exam Member, Laura Lawlor, Biology, Queen's University, Kingston
1999/9 - 2006/9	Committee Member, Jim Karagatzides, Geography, Queen's University, Kingston
2004/9 - 2006/8	Master's Oral Exam Member, Robert Lyle, Geological Sciences and Geological Engineering, Queen's University, Kingston
2003/9 - 2006/4	Master's Oral Exam Member, Hue Wei, Geography, Queen's University, Kingston
2003/9 - 2005/9	Master's Oral Exam Member, Roger Bull, Biology, Queen's University, Kingston
2003/9 - 2005/9	Master's Oral Exam Member, Brenda Saunders, Biology, Queen's University, Kingston
2003/9 - 2005/8	Master's Oral Exam Member, Jill Hamilton, Biology, Queen's University, Kingston
2003/9 - 2005/8	Master's Oral Exam Chair, Yan Cui, Physics, Queen's University, Kingston
2001/9 - 2005/8	PhD External Examiner, Juliette Wallace, Geography, University of Waterloo
2000/9 - 2005/6	PhD Oral Exam Chair, Jonathan Frauley, Sociology, Queen's University, Kingston
2002/9 - 2004/9	Master's Oral Exam Member, Alison Jackson, Biology, Queen's University, Kingston
2000/9 - 2004/9	PhD Comprehensive Exam Committee Member, Jason Pither, Biology, Queen's University, Kingston
2000/9 - 2004/9	PhD External Examiner, Fawziah Gadallah, Geography, University of Toronto
2000/9 - 2004/9	PhD Oral Exam Member, Heather MacKinnon, Biology, Queen's University, Kingston
2000/9 - 2004/9	PhD Oral Exam Chair, Yang Li, Computing, Queen's University, Kingston
2000/9 - 2004/9	PhD Oral Exam Member, Christopher Herlihy, Biology, Queen's University, Kingston
2000/9 - 2004/8	PhD External Examiner, Ian Olthof, Geography and Environmental Studies, Carleton University
1999/9 - 2004/8	Committee Member, Paul Bartlett, Geography, Queen's University, Kingston
1999/9 - 2003/12	PhD Oral Exam Chair, Sarah Meharg, Geography, Queen's University, Kingston
2001/9 - 2003/10	Master's Oral Exam Member, Jessica Tomkins, Geography, Queen's University, Kingston
1998/9 - 2003/10	PhD External Examiner, Johan Holmgren, Forest Management, Swedish Univ Agric Sciences
2001/9 - 2003/9	Master's Oral Exam Member, Andrew Forbes, Geography, Queen's University, Kingston
2001/9 - 2003/9	Master's Oral Exam Member, Heather Arnold, Biology, Queen's University, Kingston

1999/9 - 2003/9	PhD External Examiner, Jennifer Rowland, Environmental Chemistry, Royal Military College of Canada
2001/9 - 2003/4	PhD Comprehensive Exam Committee Member, Brian Campbell, Biology, Queen's University, Kingston
2000/9 - 2002/9	Master's Oral Exam Member, Willy Cheng, Geography, Queen's University, Kingston
1998/9 - 2002/8	PhD Oral Exam Chair, Gregory Caldwell, Economics, Queen's University, Kingston
2000/9 - 2002/6	Master's Oral Exam Member, Brandon Schamp, Biology, Queen's University, Kingston
2000/9 - 2002/6	Master's Oral Exam Member, Juanita Marcias, Geography, Trent University
1997/9 - 2002/6	PhD External Examiner, Geoffrey Hay, Biology, Université de Montréal
2000/9 - 2002/4	Committee Member, Harry Manson, Geography, Queen's University, Kingston
1999/9 - 2001/6	Master's Oral Exam Member, Dave Morimoto, Geography, Queen's University, Kingston
1998/9 - 2000/9	Master's Oral Exam Member, Ted Lewis, Geography, Queen's University, Kingston
1995/9 - 1999/9	PhD Oral Exam Member, Pablo Zarco-Tejada, Earth and Atmospheric Science, York University
1995/9 - 1999/9	PhD Oral Exam Member, Peter White, Earth and Atmospheric Science, York University
1997/9 - 1999/8	Master's Oral Exam Member, Wiske Rotinsulu, Environmental Studies, York University
1997/9 - 1999/6	Master's Oral Exam Member, David Morin, Geography, York University
1997/9 - 1999/6	Master's Oral Exam Member, Xi Pin, Earth and Atmospheric Science, York University
1997/9 - 1999/6	Master's Oral Exam Member, Igor Solesa, Environmental Studies, York University
1997/9 - 1999/6	Committee Member, Yan Xu, Geography, York University
1997/9 - 1999/6	Master's Oral Exam Member, Chris Inannen, Earth and Atmospheric Science, York University
1997/9 - 1999/6	Master's Oral Exam Member, Elizabeth Mayfarth, Environmental Studies, York University

Research Funding Application Assessment Activities

External Reviewer, Canada Excellence Research Chair (CERC), Canada 150 Research Chairs Program, Canada First Research Excellence Fund, Tri-agency Institutional Programs Secretariat, Ottawa, Canada

External Reviewer, Research Foundation – Flanders, Fonds Wetenschappelijk Onderzoek, New Research Project Proposal, Flemish Institute for Technological Research

External Reviewer, NSERC International Opportunity Fund, Natural Sciences and Engineering Research Council of Canada (NSERC)

Committee Member, NSERC Special Research Opportunities (SRO) Program College of Reviewers (The SRO program consolidates the Collaborative Research Opportunities (CRO) Program, the International Opportunity Fund (IRO), and the Strategic Projects Fund (SPF).

External Reviewer, Fonds Wetenschappelijk Onderzoek, Postdoctoral Fellow Renewal Application, Academic Reviewer, Flemish Institute for Technological Research

External Reviewer, Royal Society Industrial Fellowship, Academic Reviewer, Royal Society, United Kingdom

External Reviewer, Earth-Observations Research, Categories 1 + 2A, Academic Reviewer, The Research Council of the Netherlands

External Reviewer, NSERC Research Partnerships Program, Natural Sciences and Engineering Research Council of Canada (NSERC)

External Reviewer, The Research Council of Norway

External Reviewer, Natural Environment Research Council, UK

External Reviewer, Canada Foundation for Innovation, Canada

External Reviewer, Biomass Canada - Agri-Science Cluster, Agriculture and Agri-Food Canada

External Reviewer, NSERC Discovery Grant, Academic Reviewer, Natural Sciences and Engineering Research Council of Canada (NSERC)

External Reviewer, Technology Investment Program - Special Initiatives, Academic Reviewer, CRESTech

External Reviewer, Academic Reviewer, US National Science Foundation

External Reviewer, NSERC Collaborative Research Development (CRD) Grants Program, Natural Sciences and Engineering Research Council of Canada (NSERC)

Committee Member, Queen's University Advisory Research Committee (ARC) Subcommittee IV (Member and Chair), Academic Reviewer, Queen’s University, Kingston

External Reviewer, International Polar Year (IPY), Academic Reviewer, Government of Canada

External Reviewer, Land Use Theme Committee, Academic Reviewer, CRESTech

Committee Member, Agricultural / Land Use Evaluation Team, Application Development and Research Opportunities (ADRO) Program, Canadian Space Agency

Promotion Tenure Assessment Activities

2021/1 - 2021/12	External Reviewer, Department of Geography, University of Victoria
2020/1 - 2020/12	External Reviewer, Department of Geography and Planning, University of Toronto
2019/1 - 2019/12	External Reviewer, Department of Geography, University of Victoria
2018/7 - 2019/6	Chair of Renewal, Tenure and Promotion Committee, Geography and Planning, Queen’s University, Kingston
2017/1 - 2017/12	External Reviewer, Department of Geography and Earth Science, University of North Carolina at Charlotte
2016/1 - 2016/6	External Reviewer, Geography, University of Calgary
2014/1 - 2014/12	External Reviewer, Geography and Environmental Studies, Carleton University
2013/1 - 2013/12	External Reviewer, Department of Geography and Planning, University of Toronto
2013/1 - 2013/12	External Reviewer, Department of Geography, University of Ottawa
2013/1 - 2013/12	External Reviewer, Department of Geography and Planning, University of Toronto Assessed an application by a faculty member for an Early Research Award (ERA).
2012/1 - 2012/12	External Reviewer, Department of Biology, Nipissing University
2012/1 - 2012/12	External Reviewer, College of Science, Rochester Institute of Technology

2012/1 - 2012/12	External Reviewer, School of Forest Resources, University of Washington
2011/6 - 2011/12	External Reviewer, Department of Geography, University of Hawaii at Manoa
2011/6 - 2011/12	External Reviewer, Department of Environmental Resources Engineering, SUNY College of Environmental Science and Forestry
2009/7 - 2009/12	External Reviewer, Department of Geography, Technical University of British Columbia
2009/7 - 2009/11	External Reviewer, Asian Institute of Technology
2009/7 - 2009/10	External Reviewer, Department of Geography, University of Guelph
2006/1 - 2006/2	External Reviewer, Geography, University of Ottawa Review of a Faculty Member's Nomination for the 2006 University of Ottawa Young Researcher Award
2005/7 - 2005/10	External Reviewer, Geography, University of Ottawa
2004/7 - 2004/10	External Reviewer, Geography, The University of Regina

Organizational Review Activities

2019/1 - 2019/12	External Reviewer, University of Western Ontario Conducted a review of the undergraduate program for the Department of Geography, University of Western Ontario.
2016/1 - 2016/12	External Reviewer, The University of Calgary Conducted a unit review of the Department of Geography, University of Calgary.
2015/1 - 2015/12	External Reviewer, Trent University Conducted a unit review of the Department of Geography, Trent University.
2007/1 - 2007/12	External Reviewer, Carleton University Conducted a review of the undergraduate program for the Department of Geography and Environment at Carleton University
2006/1 - 2006/12	Internal Reviewer, Queen’s University, Kingston Member of the Internal Academic Review Team for the Department of Sociology

International Collaboration Activities

2022/9 - 2022/11	Visiting Researcher in the Department of Earth Science at the University of Goteborg (Gothenburg), Sweden. I presented in their Departmental Seminar Series and delivered lectures in the PhD course – Arctic in a Changing Climate
2017/9 - 2019/8	Karin van Ewijk and I collaborated with Eva Lindberg and Hakan Olsson at the Swedish University of Agricultural Sciences in Umea, Sweden to extract forest understory vegetation information using airborne laser scanning data.
2018/7 - 2018/8	External Examiner for the PhD defense of Alison Beamish at the Alfred Wegener Institute for Polar and Marine Research in Potsdam, Germany. Dr. Birgit Heim was the candidate's supervisor. The title of the thesis was "Hyperspectral Remote Sensing of the Spatial and Temporal Heterogeneity of Low Arctic Vegetation."

2017/7 - 2018/6	Xiao Zhang was a Visiting Scholar from Nanjing University of Information Science and Technology. We collaborated during his stay at Queen's and published the following: Zhang, X., P.M. Treitz, D. Chen, C. Quan, L. Shi, and X. Li, 2017. Mapping mangrove forests using multi-tidal remotely sensed data and a decision-tree-based procedure. *International Journal of Applied Earth Observation and Geoinformation*, 62:201-214.
2017/3 - 2017/5	Visiting Researcher at the Arctic Research Centre at Umeå University, Umeå, Sweden. I was a keynote speaker at an Umeå University Symposium that focused on monitoring of Arctic vegetation. I was also invited to give presentations at KTH Royal Institute of Technology (Stockholm) and the University of Lund (Lund).
2016/2 - 2016/2	I was on the Supervisory Committee and an Assessor of the thesis for Raymond Struthers, PhD candidate in the Department of Biosystems at the Katholieke Universiteit Leuven in Leuven, Belgium. Dr. Pol Coppin was the candidate's supervisor. The defense took place in Leuven on February 26, 2016. The title of the thesis was "Modelling Stomatal Oscillation of Fruit Trees using Thermal and Shortwave Infrared Wavelengths."
2012/12 - 2012/12	I was the Opponent for the PhD defense of Marius Hauglin in the Department of Ecology and Natural Resource Management at the Norwegian University of Life Sciences in Ås Norway. Dr. Erik Næsset was the candidate's supervisor. The defense took place in Ås on December 7, 2012. The title of the thesis was "Estimating Forest Biomass Components by Airborne and Terrestrial Laser Scanning."
2011/9 - 2012/8	I supervised a visiting PhD candidate from the University of Helsinki, Finland. Maarit Middleton joined my research team to conduct hyperspectral remote sensing research, resulting in the following publication: Middleton, M., P. Närhi, H. Arkimaa, E. Hyvönen, V. Kuosmanen, P. Treitz and R. Sutinen, 2012. Ordination and hyperspectral remote sensing approach to classify peatland biotopes along soil moisture and fertility gradients, Remote Sensing of Environment, 124:596-609.
2011/10 - 2011/10	I was the Opponent for the PhD defense of Heather Reese in the Department of Forest Resource Management at the Swedish University of Agricultural Sciences in Umeå, Sweden. Dr. Håkan Olsson was the candidate's supervisor. The defense took place in Umeå on October 28, 2011. The title of her thesis was "Classification of Sweden's Forest and Alpine Vegetation Using Optical Satellite and Inventory Data."
2003/9 - 2003/10	I was on the Supervisory Committee and served as the External Examiner for Johan Holmgren's PhD thesis entitled "Estimation of Forest Variables using Airborne Laser Scanning." The exam took place at the Swedish University of Agricultural Sciences in Umea, Sweden.
2001/4 - 2001/6	As Visiting Researcher in the Department of Forest Resource Management, Division of Forest Remote Sensing at the Swedish University of Agricultural Sciences in Umeå, Sweden, I gave lectures and seminars on remote sensing for forestry.

Committee Memberships

2016/7 - 2018/6	Chair, Queen's University Biology Station Advisory Committee, Queen's University, Kingston
2013/7 - 2016/6	Committee Member, Queen's University Biology Station Advisory Committee, Queen's University, Kingston
2014/9 - 2015/6	Committee Member, Geography / SURP Task Force, Queen's University, Kingston

2013/7 - 2014/6	Committee Member, Dean's New Budget Model Advisory Committee (NBMAC), Queen's University, Kingston
1999/7 - 2001/6	Committee Member and Chair, GIS Advisory Committee, School of Natural Resources, Sir Sandford Fleming College, Lindsay, Ontario

Other Memberships

2003/1	Member, Arctic Institute of North America
1991/1	Member, The Remote Sensing and Photogrammetry Society
1987/1	Member, American Society of Photogrammetry and Remote Sensing
1983/1	Member, Canadian Association of Geographers
1983/1	Member, The Canadian Remote Sensing Society
2005/1 – 2020/12	Member, Canadian Institute of Foresters
1983/1 – 2010/12	Member, Ontario Association of Remote Sensing
1999/4 – 2005/3	Member, Urban and Regional Information Systems Association (URISA)
1996/4 – 2005/3	Member, International Canopy Network

Presentations

1. Treitz, P. (2022). Remote Sensing Contributions to Watershed Science at a Canadian High Arctic Research Station. Lecture in the PhD Course entitled 'Arctic in a Changing Climate', Department of Earth Sciences, University of Gothenburg, Gothenburg, Sweden
2. Treitz, P. (2022). Remote Sensing Environmental Change at the Cape Bounty Arctic Watershed Observatory (CBAWO). Department Seminar Series, Department of Earth Sciences, University of Gothenburg, Gothenburg, Sweden
3. Treitz, P.M. (2018). Assessment of Wood Attributes from Remote Sensing (AWARE) - Ontario Core Site Report. AWARE Annual General Meeting, Montreal, Canada
4. Treitz, P.M., Coops, N. (2018). Assessment of Wood Attributes from Remote Sensing - Theme II Research Results. AWARE Showcase Event, Montreal, Canada
5. Treitz, P. (2017). Remote Sensing Research for Forestry in Canada: Assessment of Wood Attributes using Remote Sensing (AWARE) – Perspectives from Queen's University, Kingston, Canada. Special Seminar, Department of Forest Resource Management, Swedish University of Agricultural Sciences, Umeå, Sweden
6. Treitz, P. (2017). Remote Sensing of Environmental Change in the Canadian Arctic. Arctic Research Symposium, Arctic Research Centre at the University of Umeå (ARCUM), Umeå, Sweden
7. Treitz, P. (2017). Remote Sensing of Biogeophysical Variables in the Canadian Arctic: Examining Permafrost, Soil Moisture, Vegetation and Carbon Exchange. Public Lecture, Department of Urban Planning and Environment, KTH Royal Institute of Technology, Stockholm, Sweden
8. Treitz, P. (2017). Remote Sensing of Biophysical Variables and Net Ecosystem Exchange in the Canadian High Arctic. Special Seminar, Department of Physical Geography and Ecosystem Science, University of Lund, Lund, Sweden
9. Treitz, P. (2014). Careers in Geographic Information Science. World GIS Day at Queen's, Kingston, Canada

10. Treitz, P. (2013). Remote Sensing of Biophysical Variables in the Canadian High Arctic - Examining Moisture, Vegetation and Carbon Exchange. Intersections Lecture Series, University of Toronto, Toronto, Canada
11. Treitz, P. (2012). Fine-scale Remote Sensing of Vegetation in the Canadian High Arctic. Arctic Research Symposium, Queen's University, Kingston, Canada
12. Treitz, P. (2011). Forest Resource Inventory in Ontario, Canada: Modelling Forest Structure using Airborne Laser Scanning. Seminar Presentation, Swedish University of Agricultural Sciences, Umea, Sweden
13. Treitz, P. (2010). Remote Sensing for Forest Management: Modelling Forest Structure (using LiDAR/ALS). Seminar Series, Department of Geography and Environmental Studies, Carleton University, Ottawa, ON, Canada
14. Treitz, P. (2010). New Technologies for Enhanced Forest Resource Inventory (eFRI). The Golden Age of Geo-Positioning: Constructing Business Solutions, Niagara College, Niagara-on-the-Lake, ON, Canada
15. Treitz, P., Woods, M., Lim, K., Thomas, V. (2009). LiDAR Remote Sensing for Natural Resources Inventory. Forest Biomass Discovery Workshop - A Gathering of Minds with a Mission: Advancing the Forest Biomass Inventory for Eastern Ontario, Queen's University, Kingston, ON, Canada
16. Treitz, P. (2007). Remote Sensing for Forest Monitoring. Multi-Temp 2007, Leuven, Belgium.
17. Treitz, P., Chasmer, L., Hopkinson, C., Lim, K., Pilger, N., Thomas, V. (2006). Application of Airborne and Ground-based LiDAR Data for Forest Inventory and Monitoring: Are Science Objectives Serving the Forest Industry. Workshop on Integrating New Technology with Forest Operations, Canadian Ecology Centre, Mattawa, Canada
18. Treitz, P., Thomas, V., Lim, K., Corville, P., Pineau, J., Durst, K. (2006). LiDAR Remote Sensing of Forest Canopy Structure: Potential for the Enhanced Forest Resource Inventory. GIS Day, Department of Geography, Queen's University, Kingston, Canada
19. Treitz, P. (2004). Application of LiDAR for Modelling Forest Volume and Biomass. Geomatics for Informed Decisions (GEOIDE) Summer School, Carlton University, Ottawa, Canada
20. Treitz, P. (2004). Three-Dimensional Analysis of Forest Structure and Terrain using LiDAR Technology. New Technology with Forest Operations Workshop, Timmins, Ontario, Canada
21. Treitz, P., Lim, K., Groot, A. (2002). Estimation of Individual Tree Heights using Lidar Remote Sensing. Workshop on Lidar Application in Forestry, Swedish University of Agricultural Sciences, Umea, Sweden
22. Treitz, P. (2002). LiDAR and Hyperspectral Data for Assessment of Forest Stand Structure and Function. First International Workshop of Lidar for Forestry, Victoria, Canada
23. Treitz, P. (2002). An Overview of Research and Operational Use of Lidar in North America. Workshop on Lidar Applications in Forestry, Swedish University of Agricultural Sciences, Umea, Sweden
24. Treitz, P. (2001). LiDAR Remote Sensing of Forest Ecosystems: Accessing the Third Dimension. Canadian Aeronautics and Space Institute - Kingston Chapter, Kingston, Canada
25. Treitz, P. (2001). Remote Sensing of Forest Ecosystems: A Three-Dimensional Problem. Department of Geography Seminar Series, Queen's University, Kingston, Canada
26. Treitz, P., Howarth, P.J. (1995). Global Positioning System Data for Map Revision – Issues of Accuracy. National Symposium on GIS Technology, Applications and Resources and Facility Madras, Department of Geography, University of Madras, Madras, India

Publications

Journal Articles (Graduate Students and Postdoctoral Fellows in Bold)

1. Coops, N.C., Achim, A., Arp, P., Bater, C.W., Caspersen, J.P., Cormier, D., Côte, J-F., Dech, J.P., Dick, A.R., **Ewijk, van K.**, Fournier, R., Goodbody, T.R.H., Hennigar, C.R., Leboeuf, A., Lier, Van O.R., Luther, J.L., MacLean, D.A., McCartney, G., Pelletier, G., Prieur, J-F., Roy, V., Tompalski, P., Treitz, P.M., White, J.C., Woods, M. (2021). Advancing the application of remote sensing for forest information needs in Canada: Lessons learned from a national collaboration of University, Industrial, and Government stakeholders. Forestry Chronicle. 97(2): 109-126.
2. **Robson, G.**, Treitz, P.M., Lamoureux, S.F., Murnaghan, K., Brisco, B. (2021). Seasonal surface subsidence and frost heave detected by C-Band DInSAR in a High Arctic environment, Cape Bounty, Melville Island, Nunavut, Canada. Remote Sensing. 13(2505).
3. **Braybrook, C.A.**, Scott, N.A., Treitz, P.M., Humphreys, E.R. (2021). Inter-annual variability of summer net ecosystem CO_2 exchange in High Arctic tundra. Journal of Geophysical Research: Biogeosciences. 126(e2020JG006).
4. Wright, C.M., **Blaser, A.**, Treitz, P.M., Scott, N.A. (2021). Spatial variability in carbon exchange processes within wet sedge meadows in the Canadian High Arctic. Advances in Polar Science. 32(1): 1-19.
5. **Ewijk, van K.**, Tompalski, P., Treitz, P., Coops, N.C., Woods, M., Pitt, D. (2020). Transferability of ALS derived Forest Resource Inventory Attributes between an Eastern and Western Canadian Boreal Forest Mixedwood Site. Canadian Journal of Remote Sensing. 46(2): 214-236.
6. Bolton, D.K., Tompalski, P., Coops, N.C., White, J.C., Wulder, M.A., Thermosilla, T., Queinnec, M., Luther, J.E., Lier, van O.R., Fournier, R.A., Woods, M., Treitz, P.M., **Ewijk, van K.**, Graham, G., Quist, L. (2020). Optimizing Landsat time series length for regional mapping of lidar-derived forest structure. Remote Sensing of Environment. 239(111645).
7. Wai Yeung, Y., **Ewijk, van K.**, Treitz, P., Shaker, A. (2020). Effects of radiometric correction on cover type and spatial resolution for modeling plot level forest attributes using multispectral airborne LiDAR data. ISPRS Journal of Photogrammetry and Remote Sensing. 169: 152-165.
8. **Hung J.K.Y.**, Treitz, P.M. (2020). Environmental land-cover classification for integrated watershed studies: Cape Bounty, Melville Island, Nunavut. Arctic Science. 6: 404-422.
9. **Marczak, P.T.**, **Ewijk, van K.**, Treitz, P.M., Scott, N.A., Robinson, D.C.E. (2020). Predicting carbon accumulation in temperate forests of Ontario, Canada using a LiDAR-initialized growth-and-yield model. Remote Sensing. 12(201).
10. **Atkinson, D.M.**, **Hung, J.K.Y.**, Gregory, F.M., Scott, N.A., Treitz, P.M. (2020). High spatial resolution remote sensing models for landscape-scale CO2 exchange in the Canadian Arctic. Arctic, Antarctic, and Alpine Research. 52(1): 1-16.
11. Goodbody, T.R.H., Tompalski, P., Coops, N.C., Hopkinson, C., Treitz, P., **Ewijk, van K.** (2020). Forest inventory and diversity attribute modelling using structural and intensity metrics from multi-spectral airborne laser scanning data. Remote Sensing. 12(2109).
12. **Freemantle, V.**, Freemantle, J., **Atkinson, D.**, Treitz, P. (2020). A high spatial resolution satellite remote sensing time series analysis of Cape Bounty, Melville Island, Nunavut (2004-2018). Canadian Journal of Remote Sensing. 46(6): 733-752.

13. **Shang, C.**, Treitz, P.M., Casperson, J., Jones, T. (2019). Estimation of forest structural and compositional variables using ALS data and multi-seasonal satellite imagery. International Journal of Applied Earth Observations and Geoinformation. 78: 360-371.

14. **Ewijk, van K.**, Treitz, P., Woods, M., Caspersen J., Jones, T. (2019). Forest site and type variability in ALS based forest resource inventory attribute predictions over three Ontario forest sites. Forests. 10(3).

15. **Collingwood, A.**, Charbonneau, F., **Shang, C.**, Treitz, P.M. (2018). Spatiotemporal variability of Arctic soil moisture detected from high resolution RADARSAT-2 SAR data. Advances in Meteorology. http://dx.doi.org/10.1155/2018/5712046

16. **Rudy, A.C.A.**, Lamoureux, S.F., Treitz, P.M., Short, N., Brisco, B. (2018). Seasonal and multi-year surface displacements measured by DInSAR in a high Arctic permafrost environment. International Journal of Applied Earth Observation and Geoinformation. 64: 51-61.

17. **Bonney, M.T.**, Danby, R.K., Treitz, P.M. (2018). Landscape variability of vegetation change across the forest to tundra transition of central Canada. Remote Sensing of Environment. 217: 18-29.

18. **Liu, N.**, Treitz, P.M. (2018). Remote sensing of Arctic percent vegetation cover and *f*APAR on Baffin Island, Nunavut, Canada. International Journal of Applied Earth Observation and Geoinformation. 71: 159-169.

19. Zhang, X., Treitz, P.M., Chen, D., Quan, C., Shi, L., Li, X. (2017). Mapping mangrove forests using multi-tidal remotely sensed data and a decision-tree-based procedure. International Journal of Applied Earth Observation and Geoinformation. 62: 201-214.

20. **Edwards, R.**, Treitz, P.M. (2017). Vegetation greening trends at two sites in the Canadian Arctic: 1984-2015. Arctic, Antarctic and Alpine Research. 49(4): 601-619.

21. Holloway, J.E., **Rudy, A.C.A.**, Lamoureux, S.F., Treitz, P.M. (2017). Determining the terrain characteristics related to surface expression of subsurface water pressurization in permafrost landscapes using susceptibility modelling. The Cryosphere. 11: 1403-1415.

22. **Shang, C.**, Treitz, P.M., Caspersen, J., Jones, T. (2017). Estimating stem diameter distributions in a management context for a tolerant hardwood forest using ALS height and intensity data. Canadian Journal of Remote Sensing. 43(1): 79-94.

23. **Liu, N.**, Budkewitsch, P., Treitz, P.M. (2017). Examining spectral reflectance features related to Arctic percent vegetation cover: Implications for hyperspectral remote sensing of Arctic tundra. Remote Sensing of Environment. 192: 58-72.

24. **Rudy, A.C.A.**, Lamoureux, S.F., Treitz, P.M., **Ewijk, van K.**, Bonnaventure, P., Budkewitsch, P. (2017). Terrain controls and landscape-scale modelling of active-layer detachments, Sabine Peninsula, Melville Island, Nunavut. Permafrost and Periglacial Processes. 28: 79-91.

25. **Rudy, A.C.A.**, Lamoureux, S.F., Treitz, P.M., **Ewijk, van K.** (2016). Transferability of regional permafrost disturbance susceptibility modelling using generalized linear and generalized additive models. Geomorphology. 264: 95-108.

26. **Liu, N.**, Treitz, P.M. (2016). Modelling High Arctic percent vegetation cover using field digital images and high-resolution satellite data. International Journal of Applied Earth Observation and Geoinformation. 52: 445-456.

27. Gökkaya, K., **Thomas, V.**, Noland, T., McCaughey, J.H., Treitz, P.M., Morrison, I. (2015). Prediction of macronutrients at the canopy level using spaceborne imaging spectroscopy and lidar data in a mixedwood boreal forest. Remote Sensing. 7: 9045-9069.

28. Gökkaya, K., **Thomas, V.**, Noland, T., McCaughey, J.H., Morrison, I., Treitz, P.M. (2015). Mapping continuous forest type variation by means of correlating remotely sensed metrics to canopy N:P ratio in a boreal mixedwood forest. Applied Vegetation Science. 18(1): 143-157.

29. **Tamminga, A.**, Scott, N.A., Treitz, P.M., Woods, M. (2014). A biogeochemical examination of Ontario's boreal forest ecosite classification system. Forests. 5: 325-346.

30. **Collingwood, A.**, Treitz, P.M., Charbonneau, F. (2014). Surface roughness estimation from RADARSAT-2 data in a high Arctic environment. International Journal of Applied Earth Observation and Geoinformation. 27: 70-80.

31. Gökkaya, K., **Thomas, V.**, Noland, T., McCaughey, J.H., Treitz, P.M. (2014). Testing the robustness of predictive models for chlorophyll generated from spaceborne imaging spectroscopy data for a mixedwood boreal forest canopy. International Journal of Remote Sensing. 35(1): 218-233.

32. **Collingwood, A.**, Treitz, P.M., Charbonneau, F., *Atkinson, D.M. (2014). Artificial neural network modeling of high Arctic phytomass using synthetic aperture radar and multispectral data. Remote Sensing. 6: 2134-2153.

33. **Ewijk, van K.**, Randin, C.F., Treitz, P.M., Scott, N.A. (2014). Predicting fine-scale tree species abundance patterns using biotic variables derived from LiDAR and high spatial resolution imagery. Remote Sensing of Environment. 150: 120-131.

34. **Atkinson, D.**, Treitz, P.M. (2013). Modelling biophysical variables across an Arctic latitudinal gradient using high spatial resolution remote sensing data. Arctic, Antarctic and Alpine Research. 45(2): 161-178.

35. **Pope, G.**, Treitz, P.M. (2013). Leaf area index (LAI) estimation in boreal mixedwood forest of Ontario, Canada using light detection and ranging (LiDAR) and WorldView-2 imagery. Remote Sensing. 5(10): 5040-5063.

36. **Rudy, A.C.A.**, Lamoureux, S., Treitz, P.M., *Collingwood, A. (2013). Identifying permafrost slope disturbance using multi-temporal optical satellite images and change detection techniques. Colds Regions Science and Technology. 88: 37-49.

37. **Southee, F.**, Treitz, P.M., Scott, N. (2012). Application of LIDAR terrain surfaces for soil moisture modeling. Photogrammetric Engineering & Remote Sensing. 78(12): 1241-1251.

38. **Maher, A.**, Treitz, P.M., Ferguson, M. (2012). Can Landsat data detect variations in snow cover within habitats of Arctic ungulates? Wildlife Biology. 18(1): 1-13.

39. **Atkinson, D.**, Treitz, P.M. (2012). Arctic ecological classifications derived from vegetation community and satellite spectral data. Remote Sensing. 4: 3948-3971.

40. **Middleton, M.**, Närhi, P., Arkimaa, H., Hyvönen, E., Kuosmanen, V., Treitz, P.M., Sutinen, R. (2012). Ordination and hyperspectral remote sensing approach to classify peatland biotopes along soil moisture and fertility gradients. Remote Sensing of Environment. 124: 596-609.

41. Treitz, P.M., **Lim, K.**, Woods, M., Pitt, D., Nesbitt, D., Etheridge, D. (2012). LiDAR sampling intensity for forest resource inventories in Ontario, Canada. Remote Sensing. 4(4): 830-848.

42. **Ewijk, van K.**, Treitz, P., Scott, N. (2011). Characterizing forest succession in central Ontario using LiDAR derived indices. Photogrammetric Engineering and Remote Sensing. 77(3): 261-269.

43. Woods, M., Pitt, D., **Lim, K.**, Nesbitt, D., Etheridge, D., Penner, M., Treitz, P. (2011). Operational implementation of a LiDAR inventory in Boreal Ontario. Forestry Chronicle. 87(4): 512-528.

44. **Thomas, V.**, Noland, T., Treitz, P., McCaughey, J.H. (2011). Leaf area and clumping indices for a boreal mixedwood forest: lidar, hyperspectral, and Landsat models. International Journal of Remote Sensing. 32(23): 8271-8297.

45. **Wall, J.**, **Collingwood, A.**, Treitz, P. (2010). Monitoring surface moisture state in the Canadian High Arctic using synthetic aperture radar (SAR). Canadian Journal of Remote Sensing. 36: S124-S134.

46. **Chasmer, L.**, Barr, A., Black, A., McCaughey, J.H., Shaskov, A., Treitz, P., Zha, T. (2009). Scaling and assessment of GPP from MODIS using a combination of airborne lidar and eddy covariance measurements over jack pine forests. Remote Sensing of Environment. 113: 82-93.

47. **Thomas, V.**, McCaughey, J.H., Treitz, P., Finch, D., Noland, T., Rich, L. (2009). Spatial modelling of photosynthesis for a boreal mixedwood forest by integrating micrometeorological, lidar and hyperspectral remote sensing data. Agriculture and Forest Meteorology. 149: 639-654.

48. **Chasmer, L.**, Hopkinson, C., Treitz, P., McCaughey, J.H., Barr, A., Black, A. (2008). A LiDAR-based hierarchical approach to assessing MODIS fPAR. Remote Sensing of Environment. 112: 4344-4357.

49. **Chasmer, L.**, Barr, A., Black, A., McCaughey, J.H., Shaskov, A., Treitz, P. (2008). Investigating light use efficiency (LUE) across a jack pine chronosequence during dry and wet years. Tree Physiology. 28: 1395-1406.

50. **Thomas, V.**, Treitz, P., McCaughey, J.H., Noland, T., Rich, L. (2008). Canopy chlorophyll concentration estimation using hyperspectral and lidar data for a boreal mixedwood forest in northern Ontario, Canada. International Journal of Remote Sensing. 29(4): 1029-1052.

51. Woods, M., **Lim, K.**, Treitz, P. (2008). Predicting forest stand variables from LiDAR data in the Great-Lakes St. Lawrence Forest of Ontario. Forestry Chronicle. 84(6): 827-839.

52. **Chasmer, L.**, Kljun, N., Barr, A., Black, A., **Hopkinson, C.**, McCaughey, J.H., Treitz, P. (2008). Influences of vegetation structural and elevation on CO2 uptake within a mature jack pine forest in Saskatchewan, Canada. Canadian Journal of Forest Research. 38: 2746-2761.

53. **Lim, K.**, **Hopkinson, C.**, Treitz, P. (2008). Examining the effects of sampling point densities on laser canopy height and density metrics for forest studies at the plot level. Forestry Chronicle. 84(6): 876-885.

54. **Laidler, G.**, Treitz, P., *Atkinson, D. (2008). Remote sensing of Arctic vegetation: relations between the NDVI, spatial resolution and vegetation cover on Boothia Peninsula, Nunavut. Arctic. 6(1): 1-13.

55. Lamoureux, S.F., McDonald, D.M., Cockburn, J.M.H., Lafreniere, M., **Atkinson, D.**, Treitz, P. (2006). An incidence of multi-year sediment storage on channel snowpack in the Canadian High Arctic. Arctic. 59(4): 381-390.

56. **Chasmer, L.**, **Hopkinson, C.**, Treitz, P. (2006). Investigating laser pulse penetration through a conifer canopy by integrating airborne and terrestrial lidar. Canadian Journal of Remote Sensing. 32(2): 116-125.

57. **Prenzel, B.**, Treitz, P. (2006). Spectral and spatial filtering for enhanced thematic change analysis of remotely sensed data. International Journal of Remote Sensing. 27(5): 835-854.

58. **Thomas, V.**, Treitz, P., McCaughey, J.H., Morrison, I. (2006). Mapping stand-level forest biophysical variables for a mixedwood boreal forest using LiDAR: an examination of scanning density. Canadian Journal of Forest Research. 36: 34-47.

59. **Chasmer, L.**, **Hopkinson, C.**, Treitz, P. (2006). Examining the influence of changing laser pulse repetition frequencies on conifer forest canopy returns. Photogrammetric Engineering and Remote Sensing. 72(12): 1359-1367.

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64. **Lim, K.**, Treitz, P. (2004). Estimation of above-ground forest biomass from airborne discrete return laser scanner data using canopy-based quantile estimators. Scandinavian Journal of Forest Research. 19: 558-570.

65. **Hopkinson, C.**, **Chasmer, L.**, Young-Pow, C., Treitz, P. (2004). Assessing forest metrics with a ground-based scanning LiDAR. Canadian Journal of Forest Research. 34: 573-583.

66. Treitz, P. (2004). Epilogue. Progress in Planning. 61(3): 383-384.

67. **Prenzel, B.**, Treitz, P. (2004). Remote sensing of land-cover and land-use change for a complex tropical watershed in North Sulawesi, Indonesia. Progress in Planning. 61(3): 349-363.

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69. Treitz, P., Rogan, J. (2004). Remote sensing for mapping and monitoring land-cover and land-use change: an introduction. Progress in Planning. 61(3): 269-279.

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71. **Lim, K.**, Treitz, P., Baldwin, K., Morrison, I., Green, J. (2003). LiDAR remote sensing of biophysical properties of tolerant northern hardwood forests. Canadian Journal of Remote Sensing. 29(5): 658-678.

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73. **Thomas, V.**, Treitz, P., Jelinski, D., Miller, J., Lafleur, P., McCaughey, H. (2002). Image classification of a northern peatland complex using spectral and plant community data. Remote Sensing of Environment. 84: 83-99.

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75. Treitz, P. (2001). Variogram analysis of high spatial resolution remote sensing data: an examination of boreal forest ecosystems. International Journal of Remote Sensing. 22(18): 3895-3900.

76. **Sampson, P.H**., Mohammed, G.H., Zarco-Tejada, P.J., Miller, J.R., Noland, T.L., Irving, D., Treitz, P.M., Colombo, S.J., Freemantle, J. (2000). The Bioindicators of Forest Condition Project: A physiological, remote sensing approach. Forestry Chronicle. 76(6): 941-952.

77. Treitz, P., Howarth, P. (2000). Integrating spectral, spatial, and terrain variables for forest ecosystem classification. Photogrammetric Engineering and Remote Sensing. 66(3): 305-317.

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80. Treitz, P., Howarth, P. (2000). High spatial resolution remote sensing data for forest ecosystem classification: an examination of spatial scale. Remote Sensing of Environment. 72: 268-289.

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