

# CURRICULUM VITAE

**SHANNON E. FARGEY**  
Assistant Teaching Professor  
Department of Geography  
University of Victoria

## 1. DEGREES AND DIPLOMAS

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year Granted</i>
B.Sc	Environmental Science	University of Calgary	2005
M.Sc	Geography	University of Calgary	2007
Ph.D	Environment and Geography	University of Manitoba	2014

Title of PhD Dissertation: *Characterization of orographic cloud and precipitation features over southern Baffin Island and surrounding area*

## 2. POSITIONS HELD

2017 – present*	<i>Assistant Teaching Professor</i> – Dept. of Geography	University of Victoria
2014 - 2017	<i>Assistant Teaching Professor (limited term)</i> – Dept. of Geography	University of Victoria
2012 - 2014	<i>Sessional Instructor</i> – Dept. of Environment and Geography	University of Manitoba
2011 - 2012	<i>Sessional Instructor</i> – Dept. of Geography	Brandon University
2008 - 2009	<i>Network Manager</i> – Storm Studies in the Arctic	University of Manitoba
2005 - 2007	<i>Project Manager</i> – Foothills Climate Array	University of Calgary

\* Parental Leave December 2019 to June 2021

## 3. MAJOR FIELD(S) OF SCHOLARLY OR PROFESSIONAL INTEREST

Mountain Meteorology, Experiential and Field School Pedagogy, Hydrology

## 4. MEMBERSHIPS AND OFFICES HELD IN LEARNED AND PROFESSIONAL SOCIETIES

<i>Member</i> , Canadian Association of Geographers (CAG)	2022 to present
<i>Member</i> , Canadian Water Resources Association (CWRA)	2017 to 2019
<i>Student Member</i> , American Meteorological Society (AMS)	2010 to 2014
<i>Student Member</i> , Canadian Meteorological and Oceanographic Society (CMOS)	2006 to 2014

## 5. SCHOLARSHIPS, FELLOWSHIPS, HONOURS, AND AWARDS

### a. From the University of Victoria

**Learning and Teaching Strategic Initiative Open Education Resource Grant (UVic)**  
*Co-Applicant: Crystal Huscroft (Thompson River University)* \$5,000 2019-2022  
*Introduction to Earth System Science (an Introduction to Physical Geography Online Text)*

**Learning and Teaching Strategic Initiative Indigenous Grant (UVic)** \$5,000 2018-2019  
*Co-PIs: Rosaline Canessa, Cameron Owens*  
*Decolonizing and Indigenizing the Geography courses in the Clayoquot Sound Field Semester*

<b>Faculty of Social Sciences Indigenous Resurgence Fund (UVic)</b> <i>Co-PIs: Rosaline Canessa, Cameron Owens</i> <i>Decolonizing and Indigenizing the Geography courses in the Clayoquot Sound Field Semester</i>	\$1,500	2018-2019
<b>Watershed Protection and Management Division, Capital Regional District (CRD)</b> <i>Sooke Watershed Precipitation Array – Improved observation of hydrological inputs in dense canopy cover and orographic enhancement of precipitation in the drinking water source region for the greater Victoria region. Grant <u>in-kind</u> to purchase equipment and installation infrastructure)</i>	\$15,000	2018

**b. Prior to Appointment at University of Victoria**

National Sciences and Engineering Council (NSERC) Post Graduate Scholarship D3, University of Manitoba	\$63,000	2009-2011
University of Manitoba Graduate Fund, University of Manitoba	\$32,000	2007-2008
Northern Studies Training Award/Scholarship for participation in the Storm Studies in the Arctic field project, Iqaluit, Nunavut	\$2,555	2007
Alberta Graduate Research Scholarship, held at the University of Calgary	\$2,000	2006
Queen Elizabeth II Scholarship, held at the University of Calgary	\$9,300	2006
Best Student Poster Award - Canadian Meteorological and Oceanographic Society (CMOS) 40th Annual Congress	\$1,000	2006
University of Calgary Graduate Student Award	\$2,000	2007

**6. SCHOLARLY ACHIEVEMENTS**

**a. Articles Published in Refereed Journals**

*\*student author*

- 2023 Wild, A\*, Kwoil, E., Lintern, G., and S. Fargey. Fluvial Response to Climate Change in the Pacific Northwest: Skeena River Discharge and Sediment Yield. *Water*. 15 (1), 167.
- 2019 Wood, W.H., Marshall, S.J, and S.E Fargey. Daily measurements of near-surface humidity from a mesonet in the foothills of the Canadian Rocky Mountains, 2005-2010. *Earth Systems Science. Earth Systems Science Data*, 11, 23-34.
- 2018 Wood, W.H., Marshall, S.J, Whitehead, T.L and S.E Fargey. Daily temperature records from a mesonet in the foothills of the Canadian Rocky Mountains, 2005-2010. *Earth Systems Science Data*, 10, 595-607.
- 2014 Fargey, S., Henson, W., Hanesiak, J. and R. Goodson. Characterization of an unexpected snowfall event in Iqaluit, Nunavut and surrounding area during STAR. *Journal of Geophysical Research - Atmospheres*, 19, 5492-5511.
- 2014 Fargey, S., Hanesiak, J., Stewart, R. and M. Wolde. Aircraft observations of orographic cloud and precipitation features over southern Baffin Island, Nunavut, Canada. *Atmosphere-Ocean*, 52, 54-76.

- 2010 Gordon, M., Biswas, S., Taylor, P., Hanesiak, J., Melzer, M. and S. Fargey. Measurements of Blowing Snow at Iqaluit, Nunavut, Canada during the STAR Project. *Atmosphere-Ocean*, 48, 81-100.
- 2010 Hanesiak, J., Stewart, R., Taylor, P., Moore, K., Barber, D., McBean, G., Strapp, W., Wolde, M., Hudak, D., Scott, J., Liu, G., Gilligan, J., Biswas, S., Dyck, R., Fargey, S., Field, R., Gascon, G., Gordon, M., Greene, H., Hay, C., Henson, W., Hochhien, K., Leplante, A., Albarran-Melzer, M. and S. Zhang. Storm Studies in the Arctic: Meteorological Field Project. *Bulletin of the American Meteorological Society*, 91, 47-68.

**b. Other Publications**

- 2014 Fargey, S., Hanesiak, and R. Goodson. An Evaluation of Vertical Profiles using a limited area numerical weather prediction model over Baffin Island and surrounding area during autumn 2007. Prepared for the Applied Environmental Prediction Science Prairie and Northern Division, Environment and Climate Change Canada, Edmonton, Alberta.
- 2011 Fargey, S., Hanesiak, J., Liu, G., Stewart, R., Hochheim, K., Gordon, M., Taylor, P., Henson, W., LePlante, A., McBean, G., Strapp, W., Vukovic, Z and M. Wolde. 2011. Storm Studies in the Arctic Data Report. Centre for Earth Observation Science, University of Manitoba, Winnipeg, Manitoba.

**c. Conference Presentations and other**

- 2018 Fargey, S. Anatomy of Storm, *Raincoast Education Society Community Lecture Series*, Tofino, BC. Jan 31st, 2018.
- 2015 Fargey, S. Towards improved characterization of clouds and precipitation in the eastern Canadian Arctic using a research aircraft. *Department of Geography Seminar Series*. University of Victoria. February 25, 2015.
- 2014 Fargey, S. Evaluating GEM-LAM in the eastern Canadian Arctic. *End of Season Forecaster's Workshop, Environment and Climate Change Canada*, Edmonton, Alberta. October 2014.
- 2014 Fargey, S., Hanesiak, J. and R. Goodson. An evaluation of vertical profiles using a limited area numerical weather prediction model over southern Baffin Island and surrounding area during autumn 2007. *American Meteorological Society 15th Mountain Meteorology Conference*. San Diego, CA, USA. August 18 - August 22, 2014.
- 2012 Fargey, S., Henson, W., Hanesiak, J. and R. Stewart. Influence of topography on a snowfall event in Iqaluit, NU, with comparisons to GEM-LAM. *American Meteorological Society 14th Mountain Meteorology Conference*. Steamboat Springs CO, USA. August 20-24, 2012.
- 2012 Fargey, S. and S. Marshall. Surface Meteorological Observations of Upslope Cyclonic Precipitation Events in the Eastern Slopes of the Canadian Rocky Mountains. *American Meteorological Society 14th Mountain Meteorology Conference*. Steamboat Springs CO, USA. August 20-24, 2012.
- 2010 Fargey, S., Hanesiak, J., Strapp, W., and M. Wolde. Measurements of Orographic Cloud and Precipitation over Southern Baffin Island. *American Meteorological Society 13th Conference on Mountain Meteorology*. Squaw Valley, CA, USA. August 30 – September 3, 2010.
- 2010 Fargey, S., Hanesiak, J., Strapp, W., and M. Wolde. Characteristics of Orographic Cloud and Precipitation in the Arctic during STAR. *American Meteorological Society 13th Cloud Physics Conference*. Portland, Oregon, USA. June 28 - July 2, 2010.

- 2010 Fargey, S., Hanesiak, J., Martin, R., Strapp, W., and M. Wolde. A Summary of Results: Characteristics of Upslope Precipitation in the Arctic during STAR. *STAR Final Workshop*. Winnipeg, MB, Canada. June 14-15, 2010.
- 2010 Fargey, S., Hanesiak, J., Martin, R., Strapp, W., and M. Wolde. 2010. Characteristics of Upslope Precipitation in the Arctic during STAR. *Canadian Meteorological and Oceanographic Society 43rd Annual Congress*, Ottawa, ON, Canada. May 30-June 4, 2010.
- 2009 Fargey, S. and J. Hanesiak. Upslope Precipitation Features in the Canadian Arctic. *MOCA - International Association of Meteorology and Atmospheric Sciences (IAMAS)*, Montreal, QC, Canada. July 19-29, 2009.
- 2009 Fargey, S. and J. Hanesiak. Characterization of Upslope Precipitation in the Eastern Canadian Arctic, using a Research Aircraft. *UK Polar Network, Atmospheric Workshop*, Cambridge, England. April 28-May 1, 2009.
- 2007 Fargey, S and S. Marshall. Relating the frequency and distribution of southwestern Alberta storm events to seasonal rainfall patterns. *Canadian Meteorological and Oceanographic Society, 41st Annual Congress*. St. Johns, Nfld, Canada. May 28-June 1, 2007.
- 2007 Fargey, S. and S. Marshall. Spatial Evaluation of storm processes in southwestern Canada, with links to seasonal rainfall patterns. *European Geophysical Union, General Assembly*, Vienna, Austria, EU. April 15-20, 2007.
- 2006 Fargey, S. and S. Marshall. Spatial-Temporal Evolution of 2005 June Cyclonic storm events in southwestern Alberta using the Foothills Climate Array meteorological network. *Canadian Meteorological and Oceanographic Society, 40th Congress*. Toronto, ON. May 29- June 1, 2006.

## 8. TEACHING SUMMARY

### a. Summary of Course Offerings and Numbers

Course Number	Course Title	Institution	Number of Times Taught	Enrollment	Level
<b>Physical Geography Courses</b>					
GEOG 103, GEOG 1290, GEOG 170	Introduction to Physical Geography	<i>UVic, UM, BU</i>	12	14-198	1 <sup>st</sup> year
GEOG 2540	Weather and Climate	<i>UM</i>	1	60	2 <sup>nd</sup> year
GEOG 313	Field Studies in Mountain Meteorology	<i>UVic</i>	2	16*-20	3 <sup>rd</sup> year
GEOG 370	Hydrology	<i>UVic</i>	4	57-75	3 <sup>rd</sup> year
GEOG 391	Coastal Meteorology <i>field school</i>	<i>UVic</i>	2	20	3 <sup>rd</sup> year
GEOG 391	Mountain Meteorology	<i>UVic</i>	2	23-28	3 <sup>rd</sup> year
GEOG 4390/ GEOG 7440	Global Climate Change	<i>UM</i>	1	6	4 <sup>th</sup> year/ Graduate
GEOG 477	Field Studies in Physical Geography <sup>1</sup>	<i>UVic</i>	2	12	4 <sup>th</sup> year
GEOG 484	Advanced Studies in Weather and Climate	<i>UVic</i>	1	10*	4 <sup>th</sup> year
GEOG 491 A01	Exploring Hydrological Processes: from theory to practice <i>field school</i>	<i>UVic</i>	1	11	4 <sup>th</sup> year
GEOG 491 A02	From Microclimate to Climate Change <i>field school</i> <sup>2</sup>	<i>UVic</i>	1	12	4 <sup>th</sup> year
<b>Geomatics Courses</b>					
GEOG 222	Introduction to Maps and GIS	<i>UVic</i>	3	80-129	2 <sup>nd</sup> year
GEOG 328	GIS Analysis	<i>UVic</i>	11	46-55	3 <sup>rd</sup> year
GEOG 329	GIS Applications and Tools	<i>UVic</i>	1	49	3 <sup>rd</sup> year
GEOG 323, GEOG 286	Cartography	<i>UVic, BU</i>	3	40-72	3 <sup>rd</sup> year/ 2 <sup>nd</sup> year
GEOG 418/ GEOG 518	Advanced Spatial Analysis and Spatial Statistics	<i>UVic</i>	1	50	4 <sup>th</sup> year/ Graduate
<b>Environmental Geography Courses</b>					
GEOG 101A	Environment, Society and Sustainability	<i>UVic</i>	1	110	1 <sup>st</sup> year
GEOG 314	Global Environmental Change and the Human Response	<i>UVic</i>	3	20-73	3 <sup>rd</sup> year
GEOG 339	Disaster Management and Community Resilience	<i>UVic</i>	2	25-30	3 <sup>rd</sup> year
<b>Miscellaneous Geography and Other Courses</b>					
GEOG 315	Geocaching	<i>UVic</i>	8	50-60	3 <sup>rd</sup> year
GEOG 490	Directed Studies	<i>UVic</i>	6	1	4 <sup>th</sup> year
GEOG 499A	Honours Thesis	<i>UVic</i>	2	10-16	4 <sup>th</sup> year
GEOG 499B	Honours Thesis	<i>UVic</i>	2	1-16	4 <sup>th</sup> year
CSC 497	Computer Science Interdisciplinary Project	<i>UVic</i>	2	1	4 <sup>th</sup> year

<sup>1</sup>Co-Lecturer with Dr. Dan Smith (2019 offering); <sup>2</sup>Co-Lecturer with Dr. Johannes Feddema

*UVic* = University of Victoria, *UM* = University of Manitoba, *BU* = Brandon University; \*Enrollment as of October 2022

## b. Undergraduate Supervision Directed Studies, Honours Student and Computer Science Interdisciplinary Projects

Student	Subject	Course	Year
Carson Jamieson	Irrigation Analysis in British Columbia	CS Interdisciplinary Project	2022
Samantha Hill*	Wildfire Effects on a British Columbia Watershed	CS Interdisciplinary Project	2022
Jaymie Fletcher <sup>1</sup>	Karst Hydrology	Directed Studies	2021
Sarah Jenson <sup>1</sup>	Karst Hydrology	Directed Studies	2021
Emma Shupaski	Using GIS to analyze habitat use of humpback whales ( <i>Megaptera novaeangliae</i> ) in the Northern Georgia Strait of British Columbia	Honours Student	2021-2022
Hannah Meyer	Geodatabase Management in GIS	Directed Studies	2021
Alexander Moorman*	Advanced Studies in Glaciology	Directed Studies	2019
Cody Milne	Advanced Field Studies in Alpine Weather and Climate	Directed Studies	2019
Pawa Haiyupis*	Decolonizing the Clayoquot Sound Field Semester Curriculum	Directed Studies	2018
Amanda Wild*	Modelling the Skeena River: Estimated discharge and sediment load at the Skeena River mouth and associated implications for the Skeena Estuary	Honours Student	2017-2018
Charlotte Ballantyne*	Modelling Climate Change Impacts on Lodgepole Pine Populations in British Columbia	Honours Student	2017-2018

\*Moved on to pursue a Graduate Degree

<sup>1</sup>Co-Supervised with Jill Krezoski

## c. Graduate Supervision

2021 to present Daniel Gardeuno Ruiz (PhD) *My Role: Committee Mem*  
Supervisors: Colin Goldblatt and Ann-Sofie Ahm (Earth and Ocean Sciences)

2019 to 2022 Parnian Rezania (MSc) *My Role: Committee Member*  
Supervisor: Randall Scharien (Geography)

## 9. ADMINISTRATIVE ACTIVITIES AND SERVICE

### a. University and Faculty Committees

2018 to 2019 Undergraduate Curriculum Committee, Faculty of Social Sciences, Committee Member  
2018 to 2019 K-12 Modernization University Assessment, Math/Science & Numeracy Curriculum Subgroup, Committee Member  
2019 Canada Research Chair in Global Water Sustainability, *Faculty of Engineering*, Search Committee Member  
2018 to 2019 Renewal of Civil Engineering Accreditation by the Canadian Engineering, Faculty of Engineering  
2017 New Student Orientation, Faculty of Social Sciences, Presenter

2016 to 2017      Renewal of Civil Engineering Accreditation by the Canadian Engineering Accreditation Board, Faculty of Engineering

### **b. Department Committees and Responsibilities**

2022 to present      *Department Representative - Co-op Liaison*  
2021 to 2022      *Search Committee Member, Geomorphologist Faculty Position*  
2018 to 2019      *Chair, Undergraduate Affairs Committee, Dept. of Geography*  
2019      *Academic Advisor, Department of Geography*  
2019      *Search Committee Member, Physical Geography Senior Laboratory Instructor*  
2018      *Co-host and Organizer, Geography Articulation Meeting of British Columbia, Victoria, BC, May 3-4, 2018*  
  
2018      *PhD Candidacy Examination Chair, Dept. of Geography*  
2017 to 2019      *Faculty Representative, Geography Articulation of British Columbia*  
2017 to 2019      *Faculty Representative, Society of Undergraduate Students (SOGS)*  
2017 to present      *Member, ARPT Committee*  
2016 to present      *Member, Undergraduate Affairs Committee*  
2016 to present      *Member, Field School Committee, Dept. of Geography*  
2016 to 2017      *Faculty Participant, Programpalooza*  
2016      *Search Committee Member, GIS Assistant Teaching Professor (limited term)*

### **b. Professional Service and Responsibilities**

2021 to 2023      *Co-Chair – Geography Articulation of British Columbia*  
2018 to 2019      *Chair - Geography Articulation of British Columbia*  
2017 to 2018      *Project Manager - Canadian Water Resources Association (CWRA) National Conference, Victoria, BC, May 22-25, 2018.*  
  
2017      *Referee - Toronto University Press, Understanding Climate Change: from Policy to Practice (proposal for 2nd edition), By Sarah Harris and Sarah Burch*  
2017      *Referee - Wiley Publishing, Discovering Physical Geography, By Alan Arbogst*  
2016      *Referee - Pearson Publishing, Applied Physical Geography: Geosystems in the Laboratory, 9th Edition, By Charles Thomsen and Robert Christopherson*  
  
2014-2015      *Journal of Geophysical Research – Atmospheres*  
2014-2015.1      *Atmosphere-Ocean*

### **c. Education and Science Symposiums: K-12**

2019      *Presenter, ‘How ‘Geography’ is used to monitor and manage Environmental Change’, Claremont Secondary School, Victoria, BC*  
2017 to 2018      *Senior Level Judge, Vancouver Island Regional Science Fair, Elementary and Middle School (Grades 4 to 8), Victoria, BC*  
2015      *Presenter, ‘What is Weather?’, Elementary School Level (Grade 4), Victoria, BC*  
2012 to 2014      *Presenter, ‘How basic math principles to monitor climate change’, as part of the Math Inquiry Symposium, Middle School Level (Grades 6-8), Winnipeg, MB*  
2012      *Presenter and Session Organizer on the ‘Science of Climate Change Research’ at the International Student Science Fair (ISSF), Middle School and High School Level (Grades 6 - 12), Winnipeg, MB*  
2011 to 2012      *Senior Level Judge, Manitoba Schools Science Symposium, Middle School Level (Grades 6-9) Winnipeg, MB*  
2010      *Senior Level Judge, Canada Wide Science Fair, Middle School and High School Level (Grades 6 -12), Winnipeg, MB*  
2008 to 2010      *Presenter and Session Organizer for ‘Techniques in Meteorological Field Data Collection’, Arctic Field Student Day, High School Level (Grades 11-12), Winnipeg, MB*

## 10. PEDAGOGICAL AND PROFESSIONAL DEVELOPMENT

### a. Certificate/Courses

- 2021 Indigenous Canada, Faculty of Native Studies, MOOC
- 2015 Faculty Institute of Teaching Certificate *from the University of Victoria Learning and Teaching Centre*

### b. Training

- 2018 Undergraduate and Graduate Advisor Program, *from the University of Victoria*
- 2017 Racialization and Privilege in the Classroom Training, *from the University of Victoria, Faculty of Social Sciences*
- 2016 Indigenous Cultural Acumen Training, *from the University of Victoria, Faculty of Social Sciences*
- 2016 Everything you need to know about ArcGIS Maps for Office, *ESRI Educational Training*

### c. Workshops - Learning and Teaching Support and Innovation Centre

- 2022 Grading: Why and how?
- 2022 Facilitation and the Reflective Process in Experiential Learning
- 2019 Letters of Recommendation that can Help or Hurt You or Others
- 2018 Bringing the Kitchen Table to Academia: Decolonizing Conversations in the Classroom
- 2018 The Magic of Rubrics: Design, Implementation and Calibration
- 2018 Constructing Effective Statements of Intended Learning Outcomes for Grant Recipients
- 2017 Teaching towards and drawing from community-engaged learning
- 2017 Out there learning: critical reflections on off-campus study programs (field courses)
- 2017 Teaching for Critical Thinking
- 2017 Beyond Accommodation: Creating an Equitable Classroom for Students Experiencing Disability
- 2016 Reports from the Field: Sharing Stories from Recent Field Schools
- 2016 Designing Effective and Efficient Assessment
- 2016 Field School Design
- 2015 Developing a Teaching Dossier
- 2014 Embracing Diversity in the Digital Age: The New Normal of our Times
- 2014 Universalizing Student Success
- 2014 Ensuring Students Read and are Prepared for Class
- 2014 Confronting Challenges and Relishing the Rewards
- 2012 Using digital technology in the classroom
- 2012 Encouraging student engagement