

# Perry Hystad

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Oregon State University  
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## **Education**

PhD, School of Population and Public Health, University of British Columbia	2013
MSc, Geography, University of Victoria	2007
BSc. (Honor), Geography, University of Victoria	2004

## **Work Experience**

- Assistant Professor, College of Public Health and Human Sciences 2013 – present
- Researcher, Cancer Care Ontario 2012 – 2013
- Research Consultant, Health Canada 2012 – 2013
- Researcher, Carex Canada, University of British Columbia 2007 – 2013
- Research Consultant, Environment Canada 2010 – 2012

## **Research Grants Awarded**

1. Development of hybrid models to predict spatially and temporally resolved air pollution concentrations at local and national scales. Clean Air Regulatory Agency. \$110,000. Collaborator. PI: Dr. Johnson. 04/01/2014-05/31/2016.
2. GROW healthy kids and communities. *USDA Agriculture and Food Research Initiative: Childhood Obesity Prevention NIRA: 2010-04614*. \$4,870,000. Co-Investigator. PI: Dr. John and Dr. Gunter. 2/1/2011-1/31/2016.
3. Spatial data mining: Exploring co-location of adverse birth outcomes and environmental variables. *National Sciences and Engineering Research Council of Canada*. \$585,047. Co-Investigator. PI: Dr. Osornio Vargas. 2013 – 2016
4. CAREX Canada. Surveillance of occupational and environmental carcinogens. *Canadian Partnership Against Cancer*. \$1,600,000. Collaborator. PI: Dr. Paul Demers and Dr. Anne-Marie Nicol. 2006 - 2014
5. Breast and prostate cancer and exposure to fine particulate matter and nitrogen dioxide air pollution: A Canadian population-based case-control study. *Environmental Canada Clean Air Regulatory Agenda*. \$60,000. Co-Investigator, PI: Dr. Paul Villeneuve. 2012 - 2013
6. Preventing cancers caused by modifiable environmental risks, *Beatrice Hunter Cancer Research Institute*. \$40,000. Co-Investigator, PI: Dr. Trevor Dummer. 2012.
7. Translating environmental exposure estimates for cancer policy and prevention, *Canadian Institutes for Health Research Knowledge Translations Supplement*. \$98,000. Co-Investigator, PI: Dr. Anne-Marie Nicol. 2011.

8. Developing environmental health indicators for First Nations in Canada, *Canadian Institutes for Health Research Synthesis Grant*. \$90,000. Co-Investigator, PI: Dr. Peter Keller. 2010.

### **Research Grants Submitted**

1. PURE-Air: A Global Assessment of Air Pollution and Cardiopulmonary Disease. NIH Director's Early Independence Awards (DP5). \$1,669,859. Principle Investigator. Submitted January 2014.
2. PURE-Air: A Global Assessment of the Cardiopulmonary Impacts of Outdoor Air Pollution. NIEHS Outstanding New Environmental Scientist (ONES) award (R01). \$2,623,450. Principle Investigator. Submitted February 2014.
3. Determining the Population Attributable Risk of the Major Modifiable Cancer Risk Factor in Canada. *Canadian Cancer Society Research Institute*. \$789,804. Co-Investigatory. PI: Dr. Friedenreich. Submitted May 2014.

### **Peer-Reviewed Journal Articles**

1. **Hystad P**, Villeneuve PJ, Goldberg MS, Crouse DL, Johnson K, and the Canadian Cancer Registries Epidemiology Research Group. (2014). Exposure to traffic-related air pollution and the risk of developing breast cancer among women in eight Canadian provinces: a case-control study. *Environment International*. Accepted Sept 10, 2014.
2. **Hystad, P**, Davies, H, Frank L, Gehring U, Tamburic L, Brauer M. Residential Greenness and Birth Outcomes: Distinguishing Effects from Spatially Correlated Built Environment Factors. *Environmental Health Perspectives*. doi:10.1289/ehp.1308049
3. Brauer, M., **Hystad, P**. (2014). Invited Commentary: Cities and Health...let me count the ways. *Epidemiology*. 25(4):526-7. doi: 10.1097/EDE.000000000000110.
4. **Hystad, P.**, Demers, P., Johnson, K., Brauer, M., Setton, E., Cervantes, A., Poplawski, K., McFarlane A., Whitehead, A., Nicole, A.M. (2014). Geographic Variation in Radon and Associated Lung Cancer Risk in Canada: A Population-Based Case-Control Study. *Canadian Journal of Public Health*. 105 (1). PMID: 24735695
5. **Hystad, P.**, Carpiano, R., Demers, P., Brauer, M. (2013) Neighborhood Socioeconomic Status and Personal Lung Cancer Risk: Evaluating Long-Term Exposure Measures and Mediating Mechanisms. *Social Science and Medicine*. 97: 95-103. PMID: 24161094
6. Henderson, S., Rauch, S., **Hystad, P.**, Kosatsky, T. (2013). Differences in lung cancer mortality trends from 1980-2011 by radon risk areas in British Columbia, Canada. *Health Physics*. 106 (5)L 608-13. PMID: 24670910
7. Brauer, M., Reynolds, C., **Hystad, P.** (2013) Traffic-Related Air Pollution and Health in Canada. *Canadian Medical Association Journal*. 185(18): 1557-1558. doi: 10.1503/cmaj.121568
8. **Hystad, P.**, Demers, P., Johnson, K., Brauer, M. (2013). Long-Term Residential Exposure to Air Pollution and Lung Cancer Risk. *Epidemiology*. 24(5): 762-772. PMID: 23676262
9. Setton, E., **Hystad, P.**, Poplawski, K., Cervantes, A., Cheasley, R., Nicol, A.M., Demers, P., (2013). Risk-based indicators of Canadians' exposures to environmental carcinogens. *Environmental Health*. 12:15. doi:10.1186/1476-069X-12-15
10. **Hystad, P.**, Demers, P., Johnson, K.C., Brook, J., van Donkelaar, A., Lamsal, L., Martin, R., Brauer, M. (2012). Spatiotemporal air pollution exposure assessment for a Canadian

- population-based lung cancer case-control study. *Environmental Health*. 11:22. doi:10.1186/1476-069X-11-22 (*Highly accessed*)
11. **Hystad, P.**, Setton, E., Cervantes, A., Poplawski, K., Deschenes, S., Brauer, M., Martin, R., van Donkellarr, A., Lamsal, L., Jerrett, M., Demers, P. (2011). Creating National Air Pollution Models for Population Exposure Surveillance in Canada. *Environmental Health Perspectives*. 119:1123-1129. PMC3237350
  12. Setton, E., Marchall, J., Brauer, M., Lundquist, K., **Hystad, P.**, Keller, P., Cloutier-Fisher, D. (2011). The impact of daily mobility on exposure to traffic-related air pollution and health estimates. *Journal of Exposure Assessment and Environmental Epidemiology*. 21(1):42-8. PMID: 20588325
  13. Carpiano, R., **Hystad, P.** (2011). "Sense of Community Belonging" in Health Surveys: What Social Capital is it Measuring? *Health and Place*. 17(2), 606-617. PMID: 21296607
  14. **Hystad, P.**, Carpiano, R. (2010). Sense of Community Belonging and Health Behavior Change in Canada. *Journal of Epidemiology and Community Health*. 66(3), 277-283. PMID: 20947874
  15. **Hystad, P.**, Fuller, D., Hobin, E., Shareck, M. (*Joint Authorship*) (2010). Challenges to Interdisciplinary Training for Junior Space, Place and Health Researchers. *Critical Public Health*. 22(1), 1-7. DOI: 10.1080/09581596.2010.520010
  16. Clark, N., Allen, R., **Hystad, P.**, Wallace, L., Dell, S., Foty, R., Dabek-Zlotorzynska, Evans, G., Wheeler, A. (2010). Exploring Variation and Predictors of Residential Fine Particulate Matter Infiltration. *Environmental Research and Public Health*. 7, 3211-3224. PMID: 20948956
  17. Setton, E., Keller, P., Cloutier-Fisher D., **Hystad, P.** (2010). Gender differences in chronic exposure to traffic-related air pollution – a simulation study of working females and males. *Professional Geographer*. 62(1): 66-83. DOI: 0.1080/00330120903404728
  18. Poplawski, K., Gould, T., Setton, E., Allen, R., Su, J., Larson, T., Henerson S., Brauer, M., **Hystad, P.**, Lightowlers, C., Keller, P., Cohen, M., Silva, C., Buzzelli, M. (2009). Intercity Transferability of Land Use Regression Models for Estimating Ambient Concentrations of Nitrogen Dioxide. *Journal of Exposure Science and Environmental Epidemiology*. 19(1):107-117. PMID:18398445
  19. **Hystad, P.**, Setton, E., Allen, R., Keller, P., Brauer, M. (2008). Modeling Residential Fine Particulate Matter Infiltration for Exposure Assessment. *Journal of Exposure Science and Environmental Epidemiology*. 19: 570-579. PMID: 18716606
  20. Setton, E., Keller, C.P., Cloutier-Fisher D., **Hystad, P.** (2008). Spatial variations in estimated chronic exposure to traffic-related air pollution in working populations - A simulation. *Internatiaonal Journal of Health Geographics*, 7(39): 1-17. PMID: 18638398
  21. **Hystad, P.**, and Keller, P. (2008). Towards a Framework for Tourism Disaster Management: Long-Term Lessons from a Forest Fire Disaster. *Tourism Management*. 29: 151-162. ISSN 0261-5177
  22. **Hystad, P.**, and Keller, P. (2006). Experience of a Tourism Industry Impacted by a Forest Fire Disaster. *Hospitality and Tourism Management*, 13(1): 44-58.
  23. Setton, E., **Hystad, P.**, Keller, P. (2005). Opportunities for Using Spatial Property Assessment Data in Air Pollution Exposure Assessments. *International Journal of Health Geographics*. 4(26): 1-8. doi:10.1186/1476-072X-4-26

## Manuscripts under review

### Book Chapters

1. Deschenes, A., Setton, E., **Hystad, P.**, Demers, P.A., Keller, P.C. (2011). Predicting Lead in Surface Soils - Exploring an Alternative to Complex Models. Progress in Environmental science, issue Progress on Heavy Metals in the Environment.
2. Setton, E., Allen, R., **Hystad, P.**, Keller, P. (2010). Chapter 3: Outdoor Air Pollution and Health – A Review of the Contributions of Geotechnologies to Exposure Assessment. *Geospatial Analysis of Environmental Health*.
3. Foster, L. and Keller, P. (Contributions by **Hystad, P.**) (2008). The British Columbia Atlas of Wellness. Canadian Western Geographical Series. 42.

### Reports

1. **Hystad, P.** (2014). Developing a National Nitrogen Dioxide Model and Vehicle Exposure Measures to Apply to the Canadian Census Cohort. Prepared for: *Health Canada*.
2. **Hystad, P.** (2013). Radon In British Columbia Schools: Concentrations, Associations with Residential Measurements, and Mitigation Results. Prepared for: *BC Center for Disease Control*
3. **Hystad, P.**, Brauer, M. (2012). Climate Change, Air Quality and Health in Canada. Prepared for: *Public Health Agency of Canada*.
4. **Hystad, P.**, Brauer, M. (2012). A Classification System for the National Air Pollution Surveillance System and Guidance for Population Exposure Assessment. Prepared for: *Environment Canada*.
5. Brauer, M., Reynolds, C., **Hystad, P.** (2012). Develop with Care: Guidelines to Protect Local Air Quality and to Mitigate Impacts from Major Transportation Routes. Prepared for: *British Columbia Ministry of Environment*.
6. Brauer, M., Reynolds, C., **Hystad, P.** (2012). Traffic-Related Air Pollution and Health: A Canadian Perspective on Scientific Evidence and Potential Exposure-Mitigation Strategies. Prepared for: *Health Canada*.
7. Brauer, M., **Hystad, P.**, Poplawski, K. (2011). Assessing the Spatial Representativeness of PM<sub>2.5</sub> and O<sub>3</sub> measurements from the National Air Pollutant Surveillance System. Prepared for: *Environment Canada*.
8. Ries, F., **Hystad, P.**, Gouge, B. (2010). Minimizing Children's Non-Residential Exposure to Traffic-Related Pollution. Prepared for: *The National Collaborating Centre for Environmental Health*.
9. Demers, P., Nicol, AM., Peters, C., Setton, E., **Hystad, P.**, Garzia, N., Edworthy, G., Hurrell, C. (2010). Surveillance of Occupational and Environmental Carcinogens in Canada. Prepared for: *The Canadian Partnership Against Cancer*.
10. Demers, P., Peters, C., Setton, E., **Hystad, P.**, Nicol, AM. (2008). Priority Environmental Carcinogens for Surveillance in Canada. Prepared for: *The Canadian Partnership Against Cancer*.

### Conferences

1. **Hystad P.**, Marshall J, Carozza S. (2014) Exposure to traffic-related air pollution and term birth weight in Texas. International Society for Environmental Epidemiology. Seattle, USA.
2. **Hystad, P.**, Davies, H., Frank, L., Gehring, U., Tamburic, L., Brauer, M. (2014) Leveraging Linked Environmental and Administrative Health Data to Identify Characteristics of the Built Environment Important to Health. International Health Data Linkage Conference. Vancouver, Canada.
3. **Hystad, P.**, Setton, E., Cervantes, A., Poplawski, K., Deschenes, S., Demers, P. (2012). Population Health Risk Assessment: What Does a Spatial Perspective Add? American Association of Geographers. New York. USA.
4. **Hystad, P.**, Brauer, M. (2011). Where do you live? Examining air pollution and childhood respiratory disease with administrative health records and geographic data in the Georgia Basin Puget Sound Airshed. GeoMED. Victoria BC, Canada.
5. **Hystad, P.**, Demers, P., Johnson, K., Brauer, B. (2011). Ambient air pollution and lung cancer risk by histological subtypes in a Canadian population-based case-control study. International Society for Environmental Epidemiology (ISEE). Barcelona, Spain.
6. **Hystad, P.**, Demers, P. (2011). Occupational exposures and lung cancer risk in Canada. The Scientific Committee on Epidemiology in Occupational Health (EPICOH). Oxford, United Kingdom.
7. **Hystad, P.**, Setton, E., Cervantes, A., Poplawski, K., Deschenes, S., Brauer, M., Martin, R., van Donkelaar, A., Lamsal, L., Jerrett, M., Demers, P. (2010). Creating national air pollution models and methods for population exposure surveillance in Canada. Joint annual meeting of ISEE and the International Society for Exposure Science (ISES). Seoul, Korea.
8. **Hystad, P.**, Setton, E., Demers, P., Cervantes-Larios, A., Cheasley, R., Chiarello, S., Poplawski, K. (2010) Development of a national carcinogen exposure tool. Joint annual meeting of ISEE and ISES. Seoul, Korea.
9. **Hystad, P.**, Setton, E., Cervantes, A., Poplawski, K., Deschenes, S., Tomlins, M., Randall, M., Van Donkelaar, A. (2009). Feasibility of a Canadian landuse regression model for PM<sub>2.5</sub> exposure assessment. ISEE. Dublin, Ireland.
10. **Hystad, P.**, Setton, E., Demers, P. (2009). Motivating public health policy: A case for national environmental carcinogen exposure surveillance. World Public Health Congress. Istanbul, Turkey.
11. **Hystad, P.**, Setton, E., Demers, P. (2008) A Methodological framework for environmental carcinogen exposure surveillance in Canada. Joint annual meeting of ISEE and ISES. Pasadena, USA.
12. **Hystad, P.** (2008). Indoor Infiltration of Particulate Matter. 5<sup>th</sup> Annual BC Lung Association Air Quality and Health Workshop. Vancouver, Canada.
13. **Hystad, P.** (2007). Incorporating the indoor environment into air pollution health risk assessments. Urban and Regional Information Systems Association, *GIS in Public Health*. New Orleans, USA.
14. **Hystad, P.** (2006). A review of indoor and outdoor PM<sub>2.5</sub> in the Capital Regional District. The Pacific Northwest International Air and Waste Management Association Conference. Vancouver, Canada.

15. **Hystad, P.** (2006). Modeling residential PM<sub>2.5</sub> for individual residences at the regional scale: Implications for epidemiology research. Joint annual meeting of the ISEE and ISES. Paris, France.
16. **Hystad, P.** (2006). Towards a model for predicting residential PM<sub>2.5</sub> infiltration. Environment Canada Air Quality 2006. Ottawa, Canada.

### **Awards and Honors**

<b>Award</b>	<b>Amount</b>	<b>Dates Held</b>
• Canadian Institute of Health Research (CIHR) Post-Doctoral Fellowship ( <i>Declined</i> )	150,000	2013 – 2016
• Michael Smith Foundation for Health Research (MSFHR) Post-Doctoral <i>Fellowship (Declined)</i>	124,500	2013 – 2016
• Roman M. Babicki Fellowship in Medical Research	40,000	2011 – 2013
• National Cancer Institute of Canada graduate scholarship ( <i>Declined</i> )	84,000	2008 – 2012
• Canadian Institute of Health Research (CIHR) Frederick Banting and Best research scholarship	105,000	2008 – 2011
• Michael Smith Foundation for Health Research (MSFHR) senior graduate trainee ( <i>CIHR top-up accepted</i> )	63,000	2008 – 2011
• CIHR/MSFHR Bridge Strategic Fellowship (bridging public health, engineering and policy research)	39,000	2007 – 2011
• University of British Columbia graduate fellowship ( <i>Declined</i> )	36,000	2007 – 2011
• Robert Caton Environment Scholarship	2,000	2011
• Summer program in multi-level modeling and data analysis scholarship	1,500	2010
• Javier O. Aragon cancer research scholarship	2,000	2010
• World public health congress student scholarship	2,500	2009
• CIHR space, place and health summer institute scholarship	1,500	2009
• Anne Crichton award - top PhD thesis proposal	500	2008
• University of Victoria graduate fellowships	27,000	2005 – 2006

### **Teaching Experience**

#### ***Course Development:***

- Environmental Health Risk Assessment (H642), College of Public Health and Human Sciences. Oregon State University 2014
- Introduction to Epidemiology (PHSP 501), School of Public Health and Social Policy, University of Victoria. 2013
- Introduction to Biostatistics (PHSP 502), School of Public Health and Social Policy, University of Victoria. 2012
- Spatial Epidemiology and Outbreak Detection. Population Health Data Analysis Certificate Program, Population Data BC, University of British Columbia 2012
- Geographic Information Systems and Population Health. Population Health 2011

Data Analysis Certificate Program, Population Data BC, University of British Columbia.

**Course Instruction:**

- Environmental Health Risk Assessment (H642), College of Public Health and Human Sciences. Oregon State University. Required PhD course in Environmental and Occupational Health. 6 students. 2013
- Introduction to Biostatistics (PHSP 502), School of Public Health and Social Policy, University of Victoria. Online class with one week in-person lectures. 42 students. 2013
- Introduction to Epidemiology (PHSP 502), School of Public Health and Social Policy, University of Victoria. Online class with one week in-person lectures. 46 students. 2013
- Geographic Information Systems and Population Health. Population Data BC, University of British Columbia. Online class. 12 students (2011) and 18 students (2013). 2011 – 2013

**Workshop Instruction:**

- GIS and Health. Two day workshop at the international conference "Data Linkage for Better Public Health" 28 participants. 2014
- Spatial Perspectives in Population Health. Two day workshop within the CIHR conference "Population Health Data Analysis: From infrastructure to Innovation". 25 participants. 2011
- Spatial Epidemiology. Three day workshop at the University of Victoria. 22 participants. 2010
- GIS and Health. One day workshop at the Health Geomatics Conference "Advancing Health Research Capacity in British Columbia". 45 Participants. 2009

**Invited Presentations:**

- Preventing Cancer in Canada - Moving Forward the Agenda through Comprehensive Population Attributable Risk Estimates. University of Calgary. April 23, 2014.
- PURE-AIR: A Global Assessment of Air Pollution and Cardiopulmonary Disease. 2014 NIEHS Environmental Health Sciences Core Centers Meeting. Los Angeles, USA.
- What Goes into a Number: Estimating the Global Burden of Air Pollution Exposure. H682 winter term. March 2, 2014.
- Estimating Industrial Air Pollution Exposures for Spatial Data Mining of Adverse Birth Outcomes. Workshop, Air Pollution and Birth Outcomes, Edmonton, Alberta. Jan 23, 2014.
- Spatial Approaches to Environmental Health Research. ENSC 515. Jan 29, 2014
- Residential Greenness and Birth Outcomes: Separating Effects from Spatially Correlated Built Environment Exposures. Annual Occupational, Environmental and Public Health Conference. Semiahmoo, Washington, January 9, 2014.
- Introduction to GIS, Geography, UBC. Lecture: Health in context, why your postal code may be just as important as your DNA. 2013
- Interviewing for and negotiating your first academic position. Panel, Bridge Program, UBC, Vancouver, BC. October 16, 2013.
- Surveillance, School of Population and Public Health. UBC. Lecture: Adding place and time: what a spatiotemporal perspective adds to surveillance Methods. 2012.

- GeoMedicine, UVic. Lecture: Where do you live? Examining air pollution and childhood respiratory disease with administrative health records and geographic data in the Georgia Basin Puget Sound Airshed. 2011.
- Environmental Health Seminar, School of Population and Public Health, UBC. Lecture: Long-term exposure to air pollution and lung cancer risk in Canada: evidence from a national case-control study. 2011.
- Health Surveillance, School of Population and Public Health. UBC. Lecture: Spatial Surveillance Methods. 2011.
- Social Determinants of Health, School of Population and Public Health. UBC. Lecture: Place, Space and Health. 2011.
- Environmental Health Seminar, Health Sciences, Simon Fraser University. Lecture: Primary Prevention through the Surveillance of Environmental Carcinogen Exposures in Canada. 2011.
- BRIDGE Seminar, School of Environmental Health, UBC. Lecture: Introduction to Epidemiological Methods. 2010.
- School of Environmental Health Seminar, UBC. Lecture: Enhancing Air Pollution Exposure Assessment by Modeling Infiltration in a GIS. 2009.
- Geography of Environment and Health, Geography, UVIC. Lecture: Air Pollution and Health. 2008.

## **Professional Service**

### ***External Committees:***

- Invited participant, Cancer Care Ontario's Primary Prevention Measure Framework advisory board. 2013.
- Invited participant, Vancouver Coastal Health Authority My health My Community advisory board. 2012.
- Invited participant, Development of a Framework to assist communities in the characterization of vulnerability to environmental contamination. Commission for Environmental Cooperation. 2012
- Spatial Data Working Group advisory committee, Population Data BC. 2010-Present.
- Chair, International Society of Environmental Epidemiology Student and New Researchers' Network. 2009-Present.
- Student Representative, International Society of Environmental Epidemiology. 2009-Present.
- Invited participant, expert working group on NIH grant "Space-Time Technology for Reconstructing Exposure in Cancer Epidemiology". 2009-2011.
- Organizing Committee Member, ISEE and ISES Seoul Conference, Student and New Researcher Activities. 2010.
- Invited participant, World Public Health Congress co-author of the Student Declaration on Public Health. 2009.
- Invited participant, Environmental and Occupational Exposure Assessment Expert Working Group, the Canadian Partnership for Tomorrow Project. 2009.
- Elected student representative, BC Environmental and Occupational Health Research Network (BCEOHRN). 2008-2009.
- Executive committee member, MSFHR/CIHR Bridge strategic scholarship program. 2007-2009.
- Invited participant, Cancer Care Ontario workshop on environmental cancer research. 2008.



- Invited participant, Statistics Canada tax cohort workshop on national exposure assessment methods for air pollution. 2008.

***Journal Peer Review:***

- American Journal of Public Health
- Atmospheric Environment
- Canadian Medical Association Journal
- Canadian Public Health Journal
- Environmental Health Perspectives
- Environmental Health
- Environmental Science and Technology
- Environmental Research
- Environmental Pollution
- Health and Place
- International Journal of Infectious Disease
- International Journal for Environmental Research and Public Health
- Journal of Environmental Epidemiology and Exposure Science
- Science of the Total Environmental

***Grant Review:***

- Health Canada Clean Air Regulatory Agenda (CARA)

***Professional Memberships:***

- International Society of Exposure Science. 2008-present.
- International Society of Environmental Epidemiology. 2007-present.

***Research Related Websites:***

- Oregon State University: <http://health.oregonstate.edu/people/hystad-perry>
- Carex Canada: [www.carexcanada.ca/en/](http://www.carexcanada.ca/en/)
- Bridge Scholarship Program: [www.bridge.ubc.ca/students/perry-hystad](http://www.bridge.ubc.ca/students/perry-hystad)
- Border Air Quality Study: <http://bags.spph.ubc.ca/>
- UVic Spatial Sciences Research Lab: <http://ssrl.geog.uvic.ca/?q=people/perry-hystad>