

Perry Hystad, Ph.D.

Assistant Professor
College of Public Health & Human Sciences
Oregon State University
Perry.Hystad@oregonstate.edu

A. EDUCATION & EMPLOYMENT

Education

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

Professional Experience

- Associate Professor, College of Public Health and Human Sciences, OSU 2019 – present
- Assistant Professor, College of Public Health and Human Sciences, OSU 2013 – 2019
- Researcher, Cancer Care Ontario 2012 – 2013
- Research Consultant, Health Canada 2012 – 2013
- Consultant, Environment Canada 2011 – 2013
- Researcher, Carex Canada, University of British Columbia 2007 – 2013

B. TEACHING EXPERIENCE, ADVISING, AND OTHER

B.1 INSTRUCTIONAL SUMMARY

Credit Instruction

<i>Quarter</i>	<i>Course #</i>	<i>Course Title</i>	<i>Credits</i>	<i>Students</i>
Oregon State University				
W 2020	H547	GIS and Public Health	2	16
W 2019			4	12
W 2018			3	31
W 2017*			3	28
W 2016			3	54
W 2015				
F 2019	H613	Independent Research Project	3	1
S 2018			1	2
W 2018			1	2
F 2017			1	3
W 2020	H603	Thesis	12	4
F 2019			12	4
S 2019			9	3
W 2019			9	3
F 2018			6	2
S 2018			6	2
W 2018			6	1

F 2019*	H513	Integrated Approach to Public Health	12	38
F 2018*			12	52
F 2017*			12	54
W 2016	H683	Advanced Research Methods	3	5
S 2015	H592	Spatial Epidemiology	3	10
S 2014*	H642	Environmental and Regulatory Risk Assessment	3	4
Population Data BC				
S 2013	PHDA 03	Geographic Information Systems and Population	3	18
S 2012		Health	3	12

Guest Lectures/Non-Credit Instruction

Oregon State University

<i>Quarter</i>	<i>Course #</i>	<i>Course Title/Institution/Lecture</i>	<i>Duration</i>
S 2019	H 445	Occupational Health	1 Lecture
S 2018		<i>"Workplace Exposure to Air Pollution and Cancer"</i>	1 Lecture
S 2017			
W 2019	H 682	Environmental and Occupational Health & Safety:	1 Lecture
W 2018		Moving from Research to Practice	1 Lecture
W 2017		<i>"Global Burden of Disease as Research Translation"</i>	
S 2017	HEST 399	Engineering for Global Health Solutions	1 Lecture
S 2016		<i>"Global Health and the Environment"</i>	1 Lecture
S 2015			1 Lecture
F 2018	H 541	Air Quality and Human Health	1 Lecture
W 2017		<i>"Assessing Exposure and Health Risks to Air Pollution"</i>	
W 2016			
W 2018	H 544	Environmental and Occupational Epidemiology	1 Lecture
S 2017		<i>"Air Pollution Epidemiology"</i>	
S 2015			
W 2017	H 543	Exposure Science	Two Weeks
W 2016		<i>"Assessing Air Pollution Exposures"</i>	
F 2016	GEOG 201	Introduction to Geospatial Science and Technology	1 Lecture
F 2015		<i>"GIS Applications to Health Research"</i>	
F 2015	H5 595	Design for Environment, Safety & Health	1 Lecture
		<i>"Healthy Built Environments"</i>	
W 2014	ENSC 515	Environmental Perspectives & Methods	1 Lecture
		<i>"Place and Health"</i>	

Additional Instruction

<i>Quarter</i>	<i>Course #</i>	<i>Course Title/Institution/Lecture</i>	<i>Duration</i>
S 2014	Workshop	Two day workshop at the international conference of Data Linkage for Better Public Health "GIS and Public Health" 28 participants.	2 days

S 2011	Workshop	Two day workshop within the CIHR Population Health Data Analysis: From infrastructure to Innovation "GIS and Public Health" 25 participants.	2 days
F 2010	Workshop	Introduction to Spatial Epidemiology. 22 participants	3 days
S 20109	Workshop	GIS and Health. One day workshop at the Health Geomatics Conference "Advancing Health Research Capacity in British Columbia" 45 Participants.	3 days

Curriculum Development at Oregon State University

- H513, Integrated Approaches to Public Health: Member of the integrated core team that is creating and delivery H513. This is a 12 credit course has been developed in response to the CEPH national initiative to transform public health degree programs to meet the needs of Public Health in the 21st century.
- H513 (Hybrid), Integrated Approaches to Public Health: Member of the integrated core team that is modifying H513 to be a hybrid course. Given this is a 12 credit class we wanted to reduce the amount of class time that was devoted to lectures and provide more flexibility for students to gain this information. Hence, we are now providing most of the foundational public health information through different online formats and using class time for in-depth case studies that pull weekly content together.
- H 547, GIS and Public Health: This course was developed to fill the need for an introduction course to geographic information systems (GIS) and public health in the college. A lab portion of the course gives students hand-on experience applying GIS to different public health case-studies.
- H592, Spatial Epidemiology: This course was developed to provide students an opportunity to apply GIS in advanced applications to epidemiological research. The course is based around a project where students develop a research question and answer their question using spatial data and analysis methods. Students create a poster of their final project and are invited to present at the Annual Semiahmoo EOH conference.
- H 642, Environmental and Regulatory Risk Assessment: This course was developed with Dr. Kile to fill the need for a risk assessment course focused specifically on environmental and occupational risk factors.
- H 683, Advanced Research Methods: This course was developed to fill the need for an advanced research methods course in EOH. Advanced research methods are covered, including framing environmental and occupational health issues into testable hypotheses, designing appropriate studies, and identifying strengths and weaknesses of different research methods.

B2. STUDENT EVALUATION

Oregon State University

<i>Course</i>	<i>Quarter</i>	<i>n/N</i>	<i>Item #1</i>	<i>Item #2</i>
H547 GIS and Public Health	W 2020	10/17	5.7	5.9
	W 2019	8/12	5.7	5.7

	W 2018	10/30	5.7	5.8
	W 2017	20/31	5.1	5.1
	W 2016	12/28	5.5	5.6
	W 2015	50/54	4.9	5.6
H613 Independent Research Project	F 2018	1/1	6	6
	S 2018	2/2	6	6
	W 2018	na	--	--
	F 2017	na		
H513 Integrated Approach to Public Health	F 2019	13/46	4.6	4.6
	F 2018	24/53	4.5	4.9
	F 2017	28/54	4.8	4.7
H592 Spatial Epidemiology	S 2015	9/10	5.8	5.7
H683 Advanced Research Methods	W 2016	na	-	-
H 642 Environmental and Regulatory Risk Assessment	S 2014	6/6	5.2	5

Scale: 6 = excellent, 5 = very good, 4 = good, 3 = fair, 2 = poor, 1 = very poor.

Value reported is the median.

Item #1: "The course, as a whole, was ____." Item #2: The instructor's contribution to the course was ____."

B3. ADVISING

Postdoctoral Trainees

OSU

Larkin, Andrew	16 - 19		Primary Supervisor	Assistant Professor Senior Research OSU
		EOH		
Cusack, Leanne	16 - 18	EOH	Primary Supervisor	EPA
Roper, Courtney	17 -	EMT	Mentor	University of Mississippi

Doctoral Students

OSU

Asseko, Sigride	18 -	EOH	Major Advisor	
Doza, Solaiman	18-	EOH	Committee	
Wang, Ying	17 -	EOH	Major Advisor	
Willis, Mary	16 -	EOH	Major Advisor	
Boakye, Kwadwo	17 -	Epi	Co-Major Advisor	
Bigouette, JP	17 -	Epi	Co-Major Advisor	Graduated
Welch, Barrett	16 -	EOH	Committee	Graduated
Stephanie Foster	18 -	EOH	Committee	
Hanley, Barbara	15 -	EOH	Committee	
Chunxue, Xu	17-	CEOAS	Committee	
Long, Dede	15 - 18	AEC	Committee	Graduated
Lyon-Colbert, Amber	14 - 18	EOH	Committee	Graduated
Roberts, Mark	14 - 17	CEOAS	Committee	Graduated

Ashraf, Ben	13 -	EOH	Committee	
Wu, Fan	14 - 17	EMT	Grad Rep	Graduated
Zanocco, Chad	15 - 18	Public Policy	Grad Rep	Graduated

Non-OSU

Nielsen, Charlene	14-18	University of Alberta	Committee	Graduated
Shupler, Matt	15 -	UBC	Committee	

Masters Students

Cocks, Meredith	18 -	EOH	Major Advisor	Graduated
Sporrer, Kyle	18 -	International health	Major Advisor	Graduated
Reyes, Cristian	18 -	EOH	Major Advisor	Graduated
Samuel Lichlyter	18 -	Engineering	Committee	Graduated
Enemu, Valentine	16 - 18	Epi	Major Advisor	Graduated
Crawford, Aaron	15 - 17	EOH	Major Advisor	Graduated
Kessinger, Jessica	15 - 17	EOH	Major Advisor	Graduated
Frey, Greta	15 - 17	EOH	Committee	Graduated
Skipton, Jason	15 - 18	International Health	Major Advisor	Graduated
Heller, Brittany	14 - 18	EOH	Committee	Graduated
Elliott, Molly	14 - 17	Epi	Committee	Graduated

Honors Students

	18 -	EOH	Major Advisor	
Fantoni, Costanza	18-19	Sciences	Major Advisor	Graduated

B4. PEER EVALUATION OF TEACHING

Teaching evaluations were conducted by peer faculty and are included in following documents.

C. SCHOLARSHIP AND CREATIVE ACTIVITY

*Student or mentee, †Developed concept and design, ‡Obtained data, §Analyzed data, ||Content expertise, #Interpreted results, **Wrote manuscript, ††Critical revision of manuscript
Journal Impact Factor (IF)

Refereed Publications

1. R. E. Arku, Brauer, M., Duong, M. L., Wei, L., Hu, B., Tse, L. Ah, Mony, P. K., Lakshmi, P. V. M., Pillai, R. K., Mohan, V., Yeates, K., Kruger, L., Rangarajan, S., Koon, T., Yusuf, S., and **Hystad, P.**, "Adverse health impacts of cooking with kerosene: A multi-country analysis within the Prospective Urban and Rural Epidemiology Study", *Environmental Research*, vol. 188, p. 109851, 2020. †‡§||#** IF:5.0
2. **Hystad, P.**, Larkin, A, et al. Yusuf, S, Brauer, M. (2020). "Associations of outdoor fine particulate air pollution and cardiovascular disease in 157 436 individuals from 21 high-income, middle-income, and low-income countries (PURE): a prospective cohort study.", *Lancet Planet Health*, vol. 4, no. 6, pp. e235-e245, 2020. †‡§||#** IF:10.7
3. D. L. Crouse, Erickson, A. C., Christidis, T., Pinault, L., van Donkelaar, A., Li, C., Meng, J., Martin, R. V., Tjepkema, M., **Hystad, P.**, Burnett, R., Pappin, A., Brauer, M., and Weichenthal, S., "Evaluating the Sensitivity of PM2.5-Mortality Associations to the Spatial and Temporal Scale of Exposure Assessment.", *Epidemiology*, vol. 31, no. 2, pp. 168-176, 2020. ||#†† IF: 5.1

4. D. Doiron, Setton, E. M., Shairsingh, K., Brauer, M., **Hystad, P.**, Ross, N. A., and Brook, J. R., "Healthy built environment: Spatial patterns and relationships of multiple exposures and deprivation in Toronto, Montreal and Vancouver.", *Environ Int*, vol. 143, p. 106003, 2020. ||#†† IF: 7.9
5. L. A. Paul, **Hystad, P.**, Burnett, R. T., Kwong, J. C., Crouse, D. L., van Donkelaar, A., Tu, K., Lavigne, E., Copes, R., Martin, R. V., and Chen, H., "Urban green space and the risks of dementia and stroke.", *Environ Res*, vol. 186, p. 109520, 2020. ||#††IF:5.0
6. B. M. Welch, Branscum, A. J., Geldhof, G. J., Ahmed, S. M., **Hystad, P.**, Smit, E., Afroz, S., Megowan, M., Golam, M., Sharif, O., Rahman, M., Quamruzzaman, Q., Christiani, D. C., and Kile, M. L., "Evaluating the effects between metal mixtures and serum vaccine antibody concentrations in children: a prospective birth cohort study.", *Environ Health*, vol. 19, no. 1, p. 41, 2020. ||#†† IF: 4.4
7. M. Elten, Donelle, J., Lima, I., Burnett, R. T., Weichenthal, S., Stieb, D. M., **Hystad, P.**, van Donkelaar, A., Chen, H., Paul, L. A., Crighton, E., Martin, R. V., Decou, M. Lou, Luo, W., and Lavigne, E., "Ambient air pollution and incidence of early-onset paediatric type 1 diabetes: A retrospective population-based cohort study.", *Environ Res*, vol. 184, p. 109291, 2020. ||#†† IF: 5.0
8. Arku R, Brauer M., other PURE investigators, Yusuf S, **Hystad P.** (2020) Long-term exposure to outdoor and household air pollution and blood pressure in the Prospective Urban and Rural Epidemiological (PURE) study. *Environmental Pollution*, 262. ††§||#** IF:6.8
9. A. C. Erickson, Christidis, T., Pappin, A., Brook, J. R., Crouse, D. L., **Hystad, P.**, Li, C., Martin, R. V., Meng, J., Pinault, L., von Donkelaar, A., Weichenthal, S., Tjepkema, M., Burnett, R. T., and Brauer, M., "Disease assimilation: The mortality impacts of fine particulate matter on immigrants to Canada.", *Health Rep*, vol. 31, no. 3, pp. 14-26, 2020. ||#†† IF: 2.7
10. C. Roper, Perez, A., Barrett, D., **Hystad, P.**, Simonich, S. L. Massey, and Tanguay, R. L., "Workflow for Comparison of Chemical and Biological Metrics of Filter Collected PM.", *Atmos Environ* (1994), vol. 226, 2020. ||#†† IF: 4.0
11. **Hystad P**, Duong M, Brauer M, Larkin A, Arku R, Kurmi O, Fan W, Avezum A, Azam I, Chifamba J, Dans A, du Plessis J, Gupta R, Kumar R, Lanas F, Liu Z, Lu Y, Lopez-Jaramillo P, Mony P, Mohan V, Mohan D, Nair S, Puoane T, Rahman O, Lap A, Wang Y, Wei L, Yeates K, Rangarajan S, Teo K and Yusuf S (2019) Health Effects of Household Solid Fuel Use: Findings from 11 Countries within the Prospective Urban and Rural Epidemiology Study, *Environmental Health Perspectives*, 127:5, 057003<https://doi.org/10.1289/EHP3915>. ††§||#** IF:8.1
12. Shupler, M, **Hystad P**, Gustofson P et al. (2019). Household, community, sub-national and country-level predictors of primary cooking fuel switching in nine countries from the PURE study. *Environmental Research Letters*; 14; 085006. doi.org/10.1088/1748-9326/ab2d46 ††§||#** IF: 6.2
13. Jesus Serrano-Lomelin, Charlene C.Nielsen, M. Shazan Jabbar, Osnat Wine, Colin Bellinger, Paul Villeneuve, Dave Stieb, Nancy Aelicks, Khalid Aziz, Irena Buka, Sue Chandra, Susan Crawford, Paul Demers, Anders C.Erickson, **Hystad P**, Manoj Kumar, Erica Phipps, Prakesh S.Shahm, Alvaro R.Osornio-Vargas. Interdisciplinary-driven hypotheses on spatial associations of mixtures of industrial air pollutants with adverse birth

- outcomes. *Environment International*. 131 104972. doi.org/10.1016/j.envint.2019.104972
IF: 7.9
14. Anders Erickson, Michael Braur, Tanya Christidis, Lauren Pinault, Daniel Crouse, Aaronvan Donkelaar, Scott Weichenthal, Amanda Pappin, Michael Jepkema, Randall V. Martin, Jeffrey R. Brook, **Hystad P**, Richard T. Burnett. (2019) Evaluation of a method to indirectly adjust for unmeasured covariates in the association between fine particulate matter and mortality. *Environmental Research*. 175: 108-116. doi.org/10.1016/j.envres.2019.05.010 *IF: 5.0
 15. Barrett M. Welch, Adam Branscum, Sharia M. Ahmed, **Perry Hystad**, Ellen Smit, Sakila Afroz, Meghan Megowan, Mostofa Golam, Md Omar Sharifbne Hasan, Mohammad L. Rahman, Quazi Quamruzzaman, David C. Christiani, Molly L. Kile (2019) Arsenic exposure and serum antibody concentrations to diphtheria and tetanus toxoid in children at age 5: A prospective birth cohort in Bangladesh. *Environment International*: 127 810-818. doi.org/10.1016/j.envint.2019.04.015 *IF: 7.9
 16. Pattanun Achakulwisut, Brauer, B, **Hystad P.**, Susan C. Anenberg (2019). Global, National, and urban burdens of pediatric asthma incidence attributable to ambient NO2 pollution. *Lancet Planetary Health*. 3(4): e-166-e178. doi.org/10.1016/S2542-5196(19)30046-4 IF: na
 17. Sindana D Ilango, Hong Chen, **Hystad P**, Aaron van Donkelaar, Jeffrey C Kwong, Karen Tu, Randall V Martin, Tarik Benmarhnia (2019) The role of cardiovascular disease in the relationship between air pollution and incident dementia: a population-based cohort study. *International Journal of Epidemiology*; 1-9. doi: 10.1093/ije/dyz154 *IF: 8.4
 18. Howell N, Tu J, Moineddin R, Chen R, Chu A, **Hystad P**, Booth G. (2019). Interaction between neighborhood walkability and traffic-related air pollution on hypertension and diabetes: The CANHEART cohort. *Environment International*. doi.org/10.1016/j.envint.2019.04.070 *IF: 7.9
 19. **Hystad P**, Payette Y, Noisel N, Boileau C. (2019) Green Space Associations with Mental Health and Cognitive Function: Results from the Quebec CARTaGENE Cohort. *Environmental Epidemiology*: 3(1): pe040 doi: 10.1097/EE9.000000000000040 †IF:na
 20. Cusack L, Sbihi H, Chow A. et al. **Hystad P**. (2019) Residential Green Space and Pathways to Term Birth Weight in the Canadian Healthy Infant Longitudinal Development (CHILD) Study. *International Journal of Health Geographics*. 4;17(1):43. doi: 10.1186/s12942-018-0160-x †IF: 3.4
 21. Gogna P, Narain T, S'Sullina D, Villeneuve P, Demers P, **Hystad P**, Brenner D, Friedenreich C, King W and the ComParE Study Team (2019) Estimates of the current and future burden of lung cancer attributable to residential radon exposure in Canada. *Preventive Medicine*. 122: 100-108. doi.org/10.1016/j.ypmed.2019.04.005. *IF:3.4
 22. Gogna P, Narain T, S'Sullina D, Villeneuve P, Demers P, **Hystad P**, Brenner D, Friedenreich C, King W and the ComParE Study Team (2019) Estimates of the current and future burden of lung cancer attributable to PM2.5 in Canada. *Preventive Medicine*. 122: 91-99. doi.org/10.1016/j.ypmed.2019.03.010*IF:3.4
 23. Willis M, **Hystad P**. Hazardous Air Pollutants and Adverse Birth Outcomes in Portland, Oregon. *Environmental Epidemiology* (2019). *Environmental Epidemiology*; 3(1): pe034. doi: 10.1097/EE9.0000000000000034 †IF:na

24. Ribeiro A, Downward G, Umbelino de Freitas C, Neta F, Cardoso M, Latorre M, **Hystad P**, Vermeulen R, Nardocci A. (2019) Incidence and mortality for respiratory cancer and traffic-related air pollution in São Paulo, Brazil. *Environmental Research* 170: 243-251. doi.org/10.1016/j.envres.2018.12.034. *†||#†† IF:5.0
25. Meng J, Martin R, van Donkelaar A, **Hystad P**, Brauer M. (2019). Estimated Long-Term (1981–2016) Concentrations of Ambient Fine Particulate Matter across North America from Chemical Transport Modeling, Satellite Remote Sensing, and Ground-Based Measurements. *Environ. Sci Technol.* 53(9): 5071-5079. doi.org/10.1021/acs.est.8b06875 *†||#†† IF:7.1
26. Li Bai, Richard T. Burnett, Jeffrey C. Kwong, **Perry Hystad**, Aaron van Donkelaar, Mark Goldberg, Eric Lavigne, Scott Weichenthal, Randall Martin, Ray Copes, Mark S. Goldberg, Alexander Kopp, Hong Chen. Exposure to ambient air pollution and the incidence of lung cancer and breast cancer in the Ontario Population Health and Environment Cohort (ONPHEC). *International Journal of Cancer.* doi.org/10.1002/ijc.32575 ||#†† IF: 7.4
27. Arku R, Birch A, Shupler M, Yusuf S, **Hystad P**, Brauer M. (2018). Characterizing exposure to household air pollution within the Prospective Urban Rural Epidemiology (PURE) study. *Environment International.* 114:307-317. doi: 10.1016/j.envint.2018.02.033 *†||#†† IF:7.1
28. Dan L. Crouse, Adele Balram, **Perry Hystad**, Lauren Pinault, Matilda van den Bosch, Hong Chen, Daniel Rainham, Errol M. Thomson, Christopher H. Close, Aaron van Donkelaar, Randall V. Martin, Richard Ménard, Alain Robichaud, Paul J. Villeneuve. (2018) Associations between Living Near Water and Risk of Mortality among Urban Canadians. *Environmental Health Perspectives.* 126(7) doi.org/10.1289/EHP3397 ||#†† IF: 9.8
29. Saeha Shin, Richard T Burnett, Jeffrey C Kwong, **Perry Hystad**, Aaron van Donkelaar, Jeffrey R Brook, Ray Copes, Karen Tu, Mark S Goldberg, Paul J Villeneuve, Randall V Martin, Brian J Murray, Andrew S Wilton, Alexander Kopp, Hong Chen (2018) Effects of ambient air pollution on incident Parkinson's disease in Ontario, 2001 to 2013: a population-based cohort study. *International Journal of Epidemiology.* doi.org/10.1093/ije/dyy172 ||#†† IF: 8.4.
30. Li Bai, Richard T. Burnett, Jeffrey C. Kwong, **Perry Hystad**, Aaron van Donkelaar, Jeffrey R. Brook, Karen Tu, Ray Copes, Mark S. Goldberg, Randall V. Martin, Brian J. Murray, Alexander Kopp, Hong Chen. (2018) Long-term exposure to air pollution and the incidence of multiple sclerosis: A population-based cohort study. *Environmental Research.* 166:437-443. doi.org/10.1016/j.envres.2018.06.003 ||#†† IF: 4.
31. Daniel L.; Weichenthal, Scott; Erickson, Anders^b; van Donkelaar, Aaron; Martin, Randall V Charbonneau, Shannon **Hystad, Perry** Brook, Jeffrey R; Tjepkema, Michael, Christidis, Tanya; Ménard, Richard; Robichaud, Alain; Burnett, Richard T. (2018) Diabetes Status and Susceptibility to the Effects of PM_{2.5} Exposure on Cardiovascular Mortality in a National Canadian Cohort. *Epidemiology.* 29(6): 784-794. doi: 10.1097/EDE.0000000000000908 ||#†† IF: 4.9
32. Son Yeongkwon, Osornio-Vargas A, O'Neill M, **Hystad P**, Texcalac-Sangrador J, Ohman-Strichland P, Meng Q, Schwander S. (2018) Land use regression models to assess air pollution exposure in Mexico City using finer spatial and temporal input parameters. *Science of the Total Environment.* (639: 40-48. doi.org/10.1016/j.scitotenv.2018.05.144 ||#†† IF: 4.9
33. Darren R Brenner, Abbey E Poirier, Stephen D Walter, Will D King, Eduardo L Franco, Paul A Demers, Paul J Villeneuve, Yibing Ruan, Farah Khandwala, Xin Grevers, Robert Nuttall,

- Leah Smith, Prithwish De, Karena Volesky, Dylan O'Sullivan, **Perry Hystad**, Christine M Friedenreich (2018) Estimating the current and future cancer burden in Canada: methodological framework of the Canadian population attributable risk of cancer (ComPARe) study. *BMJ Open*. e022378. doi:10.1136/bmjopen-2018-022378 ||#†† IF: 2.4
34. Lavigne E, Belair M-A, Duque D, Do M, Stieb D, **Hystad P**, van Donkelaar A, Martin R, Crouse D, Crighton E, Chen H, Burnett R, Weighcenthal S, Villeneuve P, To T, Brook J, Johnson M, Cakmak S, Yasseen A, Walker M. (2018). Effect modification of perinatal exposure to air pollution and childhood asthma incidence. *European Respiratory Journal*. DOI: 10.1183/13993003.01884-2017 ||#†† IF:10.6
35. Arku R, Ezzati M, Baumgartner J, Fink G, Zhou B, **Hystad P**, Brauer M. (2018). Elevated blood pressure and household solid fuel use in premenopausal women: Analysis of 12 Demographic and Health Surveys (DHS) from 10 countries. *Environmental Research*. 160:499-505. <https://doi.org/10.1016/j.envres.2017.10.026> *||#†† IF:3.8
36. Welch B, Smit E, Cardenas A, **Hystad P**, Kile M. (2018) Trends in urinary arsenic among the U.S. population by drinking water source: Results from the National Health and Nutritional Examinations Survey 2003–2014. *Environmental Research*. 162: 8-17. <https://doi.org/10.1016/j.envres.2017.12.012> *||#†† IF:7.1
37. Ngo N, Asseko S, Ebanega M, Allo'o S, **Hystad P**. (2018) The relationship among PM2.5, traffic emissions, and socioeconomic status: Evidence from Gabon using low-cost, portable air quality monitors. *Transportation Research Part D: Transport and Environment*. <https://doi.org/10.1016/j.trd.2018.01.029> *†||#†† IF:2.3
38. Crouse D, Pinault L, Balram A, **Hystad P**, Peters P, Chen H, van Donkelaar A, Martin R, Menard R, Robichaud A, Villeneuve P. Urban greenness and mortality in Canada's largest cities: a national cohort study. *The Lancet Planetary Health*. 1(7): e289-e297. [https://doi.org/10.1016/S2542-5196\(17\)30118-3](https://doi.org/10.1016/S2542-5196(17)30118-3) ||#†† IF:na.
39. Larkin A, **Hystad P**. (2017) Towards Personal Exposures: How Technology is Changing Air Pollution and Health Research. *Current Environmental Health Reports*. 4(4): 463-471. doi: 10.1007/s40572-017-0163-y. *††§||#** IF: na.
40. Pinault L, Weichenthal S, Crouse D, Brauer M, Erickson A, van Donkelaar A, Martin R, **Hystad P**, Chen H, Fines P, Brook J, Tjepkema M, Burnett R. (2017) Associations between fine particulate matter and mortality in the 2001 Canadian Census Health and Environment Cohort. *Environment International*. 159: 406-415. <https://doi.org/10.1016/j.envres.2017.08.037> ||#†† IF:7.1
41. Larkin A, **Hystad P**. (2017) Evaluating Street View Exposure Measures of Visible Green Space for Health Research. *Journal of Exposure Science and Environmental Epidemiology*. doi:10.1038/s41370-018-0017-1 *††§||#** IF: 2.9
42. Chen H, Kwong J, Copes R, **Hystad P**, van Donkelaar A, Tu K, Brook R, Goldberg M, Martin R, Murray B, Wilton A, Kopp A, Burnett R. (2017) Exposure to ambient air pollution and the incidence of dementia: A population-based cohort study. *Environment International*. 108: 271-277. <https://doi.org/10.1016/j.envint.2017.08.020> ||#†† IF:7.1
43. Cusack L, Larkin A, Carozza S, **Hystad P**. (2017) Associations between Multiple Green Space Measures and Birth Weight Across Two US Cities. *Health and Place*. 47; 36-43. <https://doi.org/10.1016/j.healthplace.2017.07.002> *††§||#** IF:2.4
44. Larkin A, van Donkelaar A, Martin R, Xiao Q, Liu Y, Marshall J, Brauer M, **Hystad P**. (2017) Development of a Global Land Use Regression Model for Nitrogen Dioxide Air

- Pollution. *Env. Sci & Tech.* 51 (12): 6957-6964 DOI: 10.1021/acs.est.7b01148 *†‡§||#** IF:5.3
45. Lavigne E., Belair Marc-Andre, Stieb D, **Hystad P.** van Donkelaar A., Martin R, Crouse D, Crighton E, Chen H, Brook J, Walker M (2017). Maternal exposure to ambient air pollution and risk of early childhood cancers: a population-based study in Ontario, Canada. *Environment International* 100: 139-147. <http://dx.doi.org/10.1016/j.envint.2017.01.004>. ||#†† IF:5.6
 46. Tonne C, Basagana X, Chaix B, Huynen M, **Hystad P**, Nawrot T, Slama R, Vermeulen R, Weuve J, Nieuwenhuijsen M. (2017) New frontiers for environmental epidemiology in a changing world. 104: 155-162. <https://doi.org/10.1016/j.envint.2017.04.003> ||#†† IF:7.1
 47. Villeneuve P, Lam S, Stieb D, Crouse D, Tjepkema M, Panault L, Osornia-Vargas A, Zaiane O, **Hystad P**, Jerrett M, Beckerman B, van Donkelaar A, Martin R. (2017) Associations Between Residential Greenness and Adverse Birth Outcomes: A National Study of Canadian Women. *Journal of Transport & Health.* 5s14. <https://doi.org/10.1016/j.jth.2017.05.293> ||#†† IF:1.7
 48. Markevych I, Schoierer J, Hartig T, Chudnovsky A, **Hystad P**, Dzhambov A, de Vries S, Triguero Mas M, Brauer M, Nieuwenhuijsen M, Lupp G, Richardson E, Astell-Burt T, Dimitrova D, Feng X, Sadeh, M, Standl M, Heinrich J, Fuertes E. (2017). Exploring pathways linking greenspace to health: Theoretical and methodological guidance. *Environmental Research.* 158: 301-317 doi: 10.1016/j.envres.2017.06.028 ||#†† IF:7.1
 49. John D, Winfield T, Etuk L, **Hystad P**, Langellotto G, Manore M, Gunter K. (2017). Community-Engaged Attribute Mapping: Exploring Resources and Readiness to Change the Rural Context for Obesity Prevention. *Progress in Community Health Partnerships.* 11(2): 183-196. DOI: 10.1353/cpr.2017.0023 †† IF:na
 50. Chen H, Kwong J, Copes R, Tu K, Villeneuve P, van Donkelaar A, **Hystad P**, Martin, R., Murray, B., Jessiman, B, Wilton, A., Burnett R. (2016) Living near major roads and the incidence of dementia, Parkinson's disease and multiple sclerosis: a population-based cohort study. *Lancet.* 389 (10070) DOI: [http://dx.doi.org/10.1016/S0140-6736\(16\)32399-6](http://dx.doi.org/10.1016/S0140-6736(16)32399-6) ||#†† IF:45.2
 51. Cusack L, Larkin A, Carozza S, **Hystad, P.** (2016). Associations between residential greenness and birth outcomes across Texas. *Environmental Research.* 152: 88-95. doi: 10.1016/j.envres.2016.10.003 *†‡§||#** IF:3.1
 52. Larkin, A., van Donkelaar, A., Geddes, J., Martin, R., **Hystad, P** (2016). Characteristics of Urban Expansion and Associated Air Pollution Changes in East Asia from 2000 to 2010. *Env. Sci. & Technology* 6; 50(17):9142-9. doi: 10.1021/acs.est.6b02549 *†‡§||#** IF:5.3
 53. John D, Gunter K, **Hystad P**, Langellotte G, Manore M. (2016). Generating Rural Options for Weight Healthy Kids and Communities – Outcomes and Impacts. *Nutrition Education and Behaviour.* 48(7). <http://dx.doi.org/10.1016/j.jneb.2016.04.355> ||#†† IF:1.8
 54. Lavigne E., Yasseen A, Stieb D, **Hystad P**, van Donkellar A, Martin R, Brook J, Course D, Burnett R, Chen H, Weichenthal S, Johnson M, Villeneuve P, Walker M. (2016). Ambient air pollution and adverse birth outcomes: Differences by maternal comorbidities. *Environmental Research* 148: 457-466. <http://dx.doi.org/10.1016/j.envres.2016.04.026> ||#†† IF:3.1
 55. Peters C, Demers P, Kalia S, **Hystad P**, Villeneuve P, Nicol Anne-Marie, Kreiger N, Koehoorn M. (2016). Occupational exposure to solar ultraviolet radiation and the risk of

- prostate cancer. *Occ & Env Medicine* 73 (11). <http://dx.doi.org/10.1136/oemed-2016-103567> *||#†† IF:2.1
56. Ashley-Martin, J, Lavigne E, Arbuckle T, Johnson M, **Hystad P**, Course D, Marshall J, Dodds L. (2016) Air pollution during pregnancy and cord blood immune system biomarkers. *J Occup Environ Med.* 2016 Oct;58(10):979-986. ||#†† IF: 2.1
57. Stieb D, Chen L, **Hystad P**, Beckerman B, Jerrett M, Tjepkema M, Crouse D, Omariba W, Peters P, van Donkelaar A, Martin R, Burnett R, Liu S, Smith-Doiron M, Dugandzic R. (2016) A national study of the association between traffic-related air pollution and adverse pregnancy outcomes in Canada, 1999-2008. *Environmental Research.* ER-15-1699R1. ||#†† IF: 4.4
58. Lavigne, E., Ashley-Martin, J., Dodds, L., Arbuckle, TE, **Hystad, P.**, Johnson, M., Crouse, DL, et al. (2016) Air pollution exposure during pregnancy and fetal markers of metabolic function: The MIREC Study. *American Journal of Epidemiology.* 183 (7). doi: 10.1093/aje/kwv256 ||#†† IF:5.2
59. Crouse, D. Peters, PA., **Hystad, P.**, Brook, J., van Donkellar, A., Martin, V., Villeneuve, P., Jerrett, M., Goldberg, M., Pope III, A., Brauer, M., Brook, R., Robichaud, A., Menard, R., Burnett, R. (2016) Associations between ambient PM2.5, O3, and NO2 and mortality in the Canadian Census Health and Environment Cohort (CanCHEC) over a 16-year follow-up. *Environmental Health Perspectives.* 123(11). DOI:10.1289/ehp.1409276 ||#†† IF:8.0
60. King WD, Friedenreich CM, Brenner DR, De P, Demers PA, **Hystad P**, Nutall R, Villeneuve PJ, Walter SD. (2015). The contribution of lifestyle, environment, genetics and chance to cancer risk in individuals and populations. *Prev Med*; 76:132-4. doi: 10.1016/j.ypmed.2015.03.030. ||#†† IF:3.1
61. Winters N, Goldberg M, **Hystad P**, Villeneuve P, Johnson K. (2015). Exposure to Ambient Air Pollution in Canada and the Risk of Adult Leukemia. *Science of the Total Environment.* 74:240-8. doi: 10.1016/j.envint.2014.09.004. *†||#†† IF:4.1
62. **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*;74:240-8. doi: 10.1016/j.envint.2014.09.004. †‡§||#** IF:5.6
63. **Hystad, P**, Davies, H, Frank L, Gehring U, Tamburic L, Brauer M. (2014). Residential Greenness and Birth Outcomes: Distinguishing Effects from Spatially Correlated Built Environment Factors. *Environmental Health Perspectives.* 122(10): 1095-1102 doi:10.1289/ehp.1308049 †‡§||#** IF:8.0
64. 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. †‡§||#** IF:6.2
65. **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 †‡§||#** IF:1.6
66. Henderson, S., Rauch, S., **Hystad, P.**, Kosatsky, T. (2014). Differences in lung cancer mortality trends from 1980-2011 by radon risk areas in British Columbia, Canada. *Health Physics.* 106 (5) 608-13. PMID: 24670910 ||#†† IF:1.3

67. **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 †‡§||#** IF:2.7
68. 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 ||#†† IF:6.0
69. **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 †‡§||#** IF:6.2
70. 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 ||#†† IF:2.7
71. **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) †‡§||#** IF:2.7
72. **Hystad, P.**, Setton, E., Cervantes, A., Poplawski, K., Deschenes, S., Brauer, M., Martin, R., van Donkelaar, 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 †‡§||#** IF:8.0
73. 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 ||#†† IF:3.2
74. 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 ||#†† IF:2.4
75. **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 †‡§||#** IF:3.2
76. **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 †‡§||#** IF:1.7
77. 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 ||#†† IF:2.1
78. 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 ||#†† IF:1.3
79. 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):107-17. PMID:18398445 ||#†† IF:3.2
80. **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 ††§||#** IF:3.2
81. 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. *International Journal of Health Geographics*, 7(39): 1-17. PMID: 18638398 ||#†† IF:2.4
82. **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 ††§||#** IF:2.6
83. **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. ††§||#** IF:1.12
84. 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 ||#†† IF:2.4

Manuscripts In Press or Under Review

1. Chen, H., Burnett, R.T., Bai, Li., Kwong, J.C., Crouse, D.L., Lavigne, E., Goldberg, M.S., Copes, R., van Donkelaar, A., Martin, R.V., and **Hystad, P.** Associations between urban green space and incidence, readmission, and mortality from major cardiovascular diseases: a population-based cohort study. *Environmental Health Perspectives*, 2020;DOI 10.1289/EHP6161 (In Press)
2. Shupler M, **Hystad P**, Birch A, et al. Household and Personal Air Pollution Exposure Measurements from 120 Communities in 8 Countries: Results from the PURE-AIR Study. *Lancet Planetary Health*. Accepted August 2020.
3. Willis M, Hill E, Kile M, Carozza S, **Hystad P**. Assessing the effectiveness of vehicle emission regulations in improving perinatal health: a population-based accountability study. *International Journal of Epidemiology*. Accepted July 2020.
4. Willis M, **Hystad P**, Hill E. Natural Gas Development, Flaring Practices, and Pediatric Asthma Hospitalizations in Texas. *International Journal of Epidemiology*. Accepted July 2020.
5. Willis M, Hill E, Long D, **Hystad P**. Correct Use of Propensity Score Matching in Environmental Epidemiology. Target Journal: *Environmental Health Perspectives*.
6. Willis M, Hill E, Kile M, Carozza S, **Hystad P**. Associations between Residential Proximity to Oil and Gas Extraction and Hypertensive Conditions during Pregnancy: A Difference-in-Differences Analysis in Texas, 1996-2009. *Epidemiology*. Under review August 2020.

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.** (2016). Traffic Related Air Pollution and Green Space: Exposure Assessment and Health Impacts. Prepared for: *Health Canada*. ††§||#**
2. **Hystad, P.** (2014). Developing a National Nitrogen Dioxide Model and Vehicle Exposure Measures to Apply to the Canadian Census Cohort. Prepared for: *Health Canada*. ††§||#**
3. **Hystad, P.** (2013). Radon in British Columbia Schools: Concentrations, Associations with Residential Measurements, and Mitigation Results. Prepared for: *BC Center for Disease Control* ††§||#**
4. **Hystad, P.**, Brauer, M. (2012). Climate Change, Air Quality and Health in Canada. Prepared for: *Public Health Agency of Canada*. ††§||#**
5. **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*. ††§||#**
6. 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*. ||#††
7. 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*. ||#††
8. Brauer, M., **Hystad, P.**, Poplawski, K. (2011). Assessing the Spatial Representativeness of PM_{2.5} and O₃ measurements from the National Air Pollutant Surveillance System. Prepared for: *Environment Canada*. ††§||#**
9. 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*. ††§||#**
10. 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*. ||#††
11. 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*. ||#††

Presented Abstracts (first author abstracts):

1. **Hystad P.** (2018) Global Assessment of Air Pollution in the PURE Cohort. International Society of Environmental Epidemiology. Ottawa, Canada
2. **Hystad P.** (2016). Smart Phones to Satellites to Sensors: Future Tools and Directions for External Exposure Assessment. Rome, Italy.

3. **Hystad P.** (2016) Household Air Pollution and Cardiovascular Disease Risk. International Society of Environmental Epidemiology. Rome, Italy
4. **Hystad P.** (2016) Novel Methods and Applications for Green Space and Health Research. American Public Health Association. Denver, USA.
5. **Hystad P.** (2015) Unpacking the Green Box of NDVI and its Associations with Health. International Society of Exposure Science. Henderson, USA.
6. **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.
7. **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.
8. **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.
9. **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.
10. **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.
11. **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.
12. **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.
13. **Hystad, P.**, Setton, E., Demers, P., Cervantes-Larios, A., Cheasely, R., Chiarello, S., Poplawski, K. (2010) Development of a national carcinogen exposure tool. Joint annual meeting of ISEE and ISES. Seoul, Korea.
14. **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_{2.5} exposure assessment. ISEE. Dublin, Ireland.
15. **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.
16. **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.
17. **Hystad, P.** (2008). Indoor Infiltration of Particulate Matter. 5th Annual BC Lung Association Air Quality and Health Workshop. Vancouver, Canada.

18. **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.
19. **Hystad, P.** (2006). A review of indoor and outdoor PM_{2.5} in the Capital Regional District. The Pacific Northwest International Air and Waste Management Association Conference. Vancouver, Canada.
20. **Hystad, P.** (2006). Modeling residential PM_{2.5} for individual residences at the regional scale: Implications for epidemiology research. Joint annual meeting of the ISEE and ISES. Paris, France.
21. **Hystad, P.** (2006). Towards a model for predicting residential PM_{2.5} infiltration. Environment Canada Air Quality 2006. Ottawa, Canada.

Current Grant Support

1. Use of Google Timeline data to assess outdoor physical activity, green space exposure, and their impact on mental health during the COVID-19 stay-at-home orders. Office of Behavioral and Social Science Research OBSSR (Supplement). \$180,000. Principal Investigator. 01/01/2021-12/31/2022
2. Evaluating and Applying Google Location Data for Built Environment and Physical Activity Research. *National Institute on Environmental Health Sciences*. \$410,000. Principal Investigator. 01/07/2020 – 31/06/2022.
3. Built Environment Assessment through Computer vision (BEACON): Applying Deep Learning to Street-Level and Satellite Images to Estimate Built Environment Effects on Cardiovascular Health. *National Health, Lung, and Blood Institute*. \$2,500,000. Co-Investigator. 01/08/2020 – 31/08/2025.
4. Integrating satellites, ground monitoring, and modeling to estimate long-term NO₂ exposures and associated pediatric asthma impacts. Health Effects Institute. \$200,000. Co-Investigator. 01/02/2020 – 01/31/2022.
5. Deep Learning of Street View Imagery to assess Urban Green Space Relationships with Mental Health: A Twin Study *National Institute on Environmental Health Sciences*. \$407,000. Principal Investigator. 09/13/2019 – 08/31/2021.
6. Impact of vehicle emission regulations on traffic-related air pollution exposures and infant health. *Health Effects Institute*. \$1,200,000. Principal Investigator. 04/01/2020-03/31/2023
7. Long-term Outdoor Air Pollution and Cause-Specific Mortality in a Pooled Analysis of 23 Asian Cohorts. *Health Effects Institute*. \$900,000. Co-Investigator. PI: Dr. Roel Vermeulen. 06/2018-12/2020.
8. Assessing Health Effects of Long-term Exposure to Low Levels of Ambient Air Pollution. *Health Effects Institute*. \$1,707,314. Co-Investigator. PI: Dr. Michael Brauer. 2016-2020.

Past Grant Support

1. PURE-Air: A Global Assessment of Outdoor Air Pollution and Cardiopulmonary Disease. NIH Director's Early Independence Awards (DP5). \$1,669,859. Principal Investigator. 30/09/2014-30/08/2020.
2. Air Pollution and Health in the Prospective Urban and Rural Epidemiological Study. Canadian Institute for Health Research (CIHR). \$753,674. Co-Investigator. PI: Dr. Michael Brauer. 07/2014-06/2018

3. Air Pollution Exposure Assessment for the Asian Cohort Consortium. National Cancer Institute. \$25,000. Principal Investigator. 2016-2017.
4. Applications of GIS to County Public Health Activities. Clackamas County. \$25,000. Principal Investigator. 2017.
5. Determining the Population Attributable Risk of the Major Modifiable Cancer Risk Factor in Canada. *Canadian Cancer Society Research Institute*. \$789,804. Co-Investigator. PI: Dr. Friedenreich. 30/10/2014-30/09/2017.
6. 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. 04/01/2014-07/31/2016.
7. 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.
8. 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
9. 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
10. 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
11. Preventing cancers caused by modifiable environmental risks, *Beatrice Hunter Cancer Research Institute*. \$40,000. Co-Investigator, PI: Dr. Trevor Dummer. 2012.
12. 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.
13. 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.

D. SERVICE

Service to the Profession

Invited National/International Presentations

- “Characterizing complex exposures associated with built environment”. CANUE annual meeting. Vancouver BC. June 2019.
- “Exploring the health benefits of long-term exposure to nature”. Health & Nature Symposium. Texas A&M University. Jan. 2019.
- “Quantified Personal Environments” TEDMed Portland. Dec. 2018
- “Towards Personal Exposure: How Technology is Changing Environmental Health Research” Harvard School of Public Health. October 2018.
- “Redefining exposure assessment for built environment research” Harvard Medical School. October 2018.
- “Measuring and Modelling the External Environment”. Utrecht University Exposome Hub Launch. Utrecht, Netherlands. June. 2018.

- “Global Estimates of Fine Particulate Matter’s Impact on Health”. McMaster Global Health Summit. Hamilton, Canada. January 2017.
- “Healthy Built Environments”. Canadian Urban Environmental Health Research Consortium. Toronto, Canada. Nov. 2016.
- “Pathways Linking Urban Green Space to Health”. European Meeting on Urban Green Space and Health. Munich, Germany. Sept. 2016.
- “What we know and what we need to know for air pollution and health policy in China”. China National Meeting on Air Pollution and Health. July 1st 2016.
- “PURE-Air: A Global Assessment of Air Pollution and Cardiopulmonary Disease”. University of Washington, Environmental and Occupational Seminar. May 5th 2016.
- “New Technology for Estimates Environmental Exposures”. CREAL Future of Environmental Epidemiology workshop. Barcelona, Spain. Nov 25-27th 2015.
- “What is Green Space Capturing in Health Studies”. Health Canada workshop on green space and mental health. Toronto, Canada. June 5-8th 2015
- “Green Space as a Cumulative Measure of Built Environment Exposures”. EPA workshop on green space and cumulative risk assessment. Cincinnati, USA. May 4th-6th 2015
- “PURE-Air: A Global Assessment of Air Pollution and Cardiopulmonary Disease”. Center for Genome Research and Biocomputing Spring Conference. Corvallis, USA. April 11th 2015.
- “Spatial Approaches to Environmental Health Research”. Harvard JPB Social and Environmental Fellows workshop. Santa Fe, New Mexico. March 18th-21st, 2015.
- “HAP and CVD in the PURE Study”. WHO Clean Cookstove Initiative. Washington DC. Feb 25-26th, 2015.
- “New Technologies for Population Based Research”. NIH Common Fund Symposium, Washington DC. Dec 16th, 2014.
- “Data Mining Environmental Exposures” DOMINO meeting on air pollution exposure and adverse birth outcomes, Oct 1. 2014.
- “Data Access as a New Researcher”. Invited Presenter at NIEHS webinar (140 participants attended). May 15, 2014.
- “Preventing Cancer in Canada - Moving Forward the Agenda through Comprehensive Population Attributable Risk Estimates”. University of Calgary. April 23, 2014.
- NIEHS Environmental Health Sciences Core Centers Meeting. Los Angeles, USA.
- “Estimating Industrial Air Pollution Exposures for Spatial Data Mining of Adverse Birth Outcomes. Workshop”. Air Pollution and Birth Outcomes, Edmonton, Alberta. Jan 23, 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.

Professional Membership

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

Ad hoc Journal Peer Review

- American Journal of Public Health
- Atmospheric Environment
- BMJ

- BMJ Open
- Canadian Medical Association Journal
- Canadian Public Health Journal
- Circulation
- Epidemiology
- Environmental Health Perspectives (editorial board member)
- 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
- Lancet
- Lancet Planetary Health
- Journal of American Heart Association
- Journal of Environmental Epidemiology and Exposure Science
- Science of the Total Environment

Grant Review

- Reviewer, NIEHS T32 Panel. Nov 2020
- Reviewer, NIH K99-R00 Panel. June 2020
- Reviewer, NIH K99-R00 Panel. July 2019
- Reviewer, Health Canada Clean Air Regulatory Agenda (CARA), 2015-2019
- Reviewer, South Coast Air Quality Management District. June 2016.
- Reviewer, NIH Community Influences on Health Behavior. Seattle, Washington. 2016.
- Reviewer, Medical Research Council (UK), 2017, 2016

External Committees/Advisory Boards

- Elected Director, Canadian Urban Environmental Health Research Consortium. 2018-2020
- Clean Air Oregon, Hazard Index Technical Advisory Committee. June – December 2018.
- Invited participant, Environmental Protection Agency i-Tree Collaborative Metrics Meeting. Washington, DC. January 2019.
- International Society for Environmental Epidemiology Conference Steering Committee, 2018-2019.
- External Advisory Committee, Oregon Public Health Tracking Network. 2017-Present
- External Advisory Committee, Population Longevity and Community Environment (PLACE) Research Grant, 2016-Present.
- External Advisory Committee, Ontario Cancer Care Prevention System Quality Index, 2015-2017.
- External Scientific Advisory Committee, Ontario Environmental Burden of Cancer. 2015
- Canada Clean Air Regulatory review board. 2014
- 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.

Service to the University, College and School

University

- Oregon Center for Health Innovation Director search committee member. 2017-2018
- Environmental Health Science Center, Member. 2013-2016.
- EOH program director. 2018-present.
- Integrated MPH Core development committee member. 2017-present
- EOH faculty search committee. 2016-2017
- EOH faculty search committee. 2015-2016
- EOH faculty search committee. 2014-2015
- Organization OSU component of annual Semiahmoo Joint Northwest Conference 2015-2018

Service to the Public

- Testimony to the Oregon Senate on the health impacts of diesel engine exhaust. 2017/18
- Worked with local NGO (South Corvallis Air) to conduct monitoring around a local glass-fiber plant. 2017-present.
- Presented at the Corvallis Academy for Lifelong Learning (ALL). 2016.
- Partnered with Natural Opus (NGO) to address community air quality concerns in Philomath. 2015.
- Helped establish a new Public Health Informatics position at Clackamas County public health. 2017-2018.

Media Converge

Media coverage of article “Associations of outdoor fine particulate air pollution and cardiovascular disease in 157 436 individuals from 21 high-income, middle-income, and low-income countries (PURE): a prospective cohort study” published in Lancet Planetary Health.

- [Air Pollution Takes a Global Toll on Heart Health](#)
- [Even Small Reductions in Air Pollution Help The Heart](#)
- [Air pollution is responsible for 14% of global cardiovascular events](#)
- [Global study finds air pollution major risk for cardiovascular disease regardless of country income](#)

Partnered with an NGO in Philomath to get students in H546 to test air quality at community member’s homes and around sources of concern. Students and project were featured in Synergies and in local news media

- <http://synergies.oregonstate.edu/2015/phhs-students-respond-to-air-quality-concerns-in-philomath/>
- http://www.gazettetimes.com/philomathexpress/local/osu-class-measures-air-quality-in-philomath/article_cc77e231-7794-54ef-907a-1863f6a4d7a8.html

Research highlighted on NIH Director Francis Collins Research Blog, titled “Creative Minds: Harnessing Technologies to Study Air Pollution’s Health Risks:

- <http://directorsblog.nih.gov/2015/05/21/creative-minds-harnessing-technologies-to-study-air-pollutions-health-risks/>

Conducted numerous interviews related to receiving the NIH Early Independence Award to examine the Global Impacts of Air Pollution on Cardiopulmonary disease. Examples include:

- <http://medcitynews.com/2014/12/air-pollution-kills-3-2-million-people-year-whos-something/>
- http://www.gazettetimes.com/news/local/osu-researcher-tracks-health-effects-of-air-pollution-around-the/article_97c4290f-cc83-5206-8b40-4fb4ef972ed9.html
- <http://www.washingtontimes.com/news/2014/dec/30/new-oregon-state-scholar-tracks-global-pollution>

Conducted numerous interviews for a publication on green space and pregnancy outcomes. This research was covered by over 100 media outlets between September 4-11th, 2014.

Examples include:

- <http://www.sciencedaily.com/releases/2014/09/140904131645.htm>
- <http://www.citylab.com/cityfixer/2014/09/yes-another-reason-to-like-green-neighborhoods-theyre-associated-with-healthier-births/379719/>
- <http://www.vancouversun.com/business/Greener+neighbourhoods+produce+bigger+babies/10182930/story.html>

Inside the mind of researcher Perry Hystad article.

- <http://health.oregonstate.edu/people/hystad-perry>

E. HONORS AND AWARDS

- NIH Early Independence Award. 2014.
- Canadian Institute of Health Research (CIHR) Post-Doctoral Fellowship (declined). 2013
- Michael Smith Foundation for Health Research (MSFHR) Post-Doctoral Fellowship (declined). 2013

- Roman M. Babicki Fellowship in Medical Research. 2011
- National Cancer Institute of Canada graduate scholarship. 2008
- Canadian Institute of Health Research (CIHR) Frederick Banting and Best research scholarship. 2008
- CIHR/MSFHR Bridge Strategic Fellowship (bridging public health, engineering and policy research). 2007
- University of British Columbia graduate fellowship. 2007
- University of Victoria graduate fellowships. 2005