

# Perry Hystad

Professor

College of Health

Oregon State University

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I am a Professor in the College of Health at Oregon State University, USA where I lead the Spatial Health Lab (<http://health.oregonstate.edu/labs/spatial-health>). My research focuses on environmental exposure science and epidemiology, with applications to air pollution, healthy built environments, and climate change. I am an avid collaborator and believe that the most pressing environmental health problems must be addressed with interdisciplinary team science. Through my research, I have developed new methods to assess environmental exposures for large population-based health studies using novel technologies and geospatial data science approaches. I lead several grants that examine air pollution, green space, heat, and built environment exposures; determine associations with diverse health outcomes; and translate this information into effective policy and prevention activities. I have published over 160 articles examining environmental health issues (Citations: 17,740, h-Index: 66, i10-Index: 151); received over \$23 million in research funding to support local, national, and global research; and served on multiple grant review panels and scientific advisory boards.

## **A. EDUCATION & EMPLOYMENT**

### **Education**

- Ph.D., Epidemiology, School of Population & Public Health, University of British Columbia, Canada 2008 – 2013
- M.Sc., Geography, University of Victoria, Canada 2005 – 2007
- B.Sc. (Honor), Geography, University of Victoria, Canada 1999 – 2004

### **Employment**

- Professor, College of Health, OSU 2024 – present
- Associate Professor, College of Public Health and Human Sciences, OSU 2019 – 2024
- 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

### **Other Relevant Positions**

- Adjunct Research Professor, McMaster University, Canada 2014 – present
- Research Fellow, Population Health Research Institute, Canada 2014 – present
- Co-Lead, ASP3IRE Development Core 2022 – present
- Founder, Spatial Health Solutions 2020 – present

**B. TEACHING EXPERIENCE, ADVISING, AND OTHER****Instructional Summary**

My teaching responsibilities have been 6-9 credits per academic year (approximately 2-3 courses) of graduate-level teaching. In addition to in-person courses, I have developed and delivered Ecampus courses and offered independent study and thesis/research courses to graduate students focused on their research areas of interest.

**Credit Instruction**

Quarter	Course #	Course Title	Credits	Students
<b>Oregon State University</b>				
W 2024	H547	GIS and Public Health	4	14
W 2023			4	14
W 2022			4	28
W 2020			4	16
W 2019			4	12
W 2018			3	31
W 2017			3	28
W 2016			3	54
W 2015			3	50
F 2024	HHS 524	Public Health Solutions	3	24
S 2023	H613	Independent Research Project	6	2
W 2023			2	1
S 2020			3	1
W 2020			6	2
F 2020			6	2
F 2019			3	1
S 2018			2	2
W 2018			2	2
F 2017			3	3
S 2023	H603	Thesis	12	1
W 2023			12	1
F 2022			24	2
S 2022			24	2
W 2022			27	3
F 2021			36	3
S 2021			48	4
W 2021			48	4
F 2020			48	4
S 2020			27	3
W 2020			27	3
F 2019			12	2
S 2019			12	2
W 2019			6	1
F 2018			6	1
S 2018			6	1
F 2022	H513	Integrated Approach to Public Health	12	20
F 2021			12	46

F 2020			12	42
F 2019			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
<b>Colombia University, Skills for Health and Research Professionals</b>				
S 2023	na	Google Earth Engine Boot Camp	NA	12
S 2022	na	Google Earth Engine Boot Camp	NA	18
S 2021	na	Google Earth Engine Boot Camp	NA	24
<b>Population Data BC</b>				
S 2013	PHDA 03	Geographic Information Systems and Population	3	18
S 2012		Health	3	12

### Guest Lectures/Non-Credit Instruction

#### Oregon State University

Quarter	Course #	Course Title/Institution/Lecture	Duration
F 2022	H 507	Seminar EOH	1 week
F 2021		<i>"Ongoing Research in Environmental Health"</i>	
F 2020			
F 2019			
S 2019	H 445	Occupational Health	1 week
S 2018		<i>"Workplace Exposure to Air Pollution and Cancer"</i>	
S 2017			
W 2019	H 682	Environmental and Occupational Health & Safety: Moving	1 week
W 2018		from Research to Practice	
W 2017		<i>"Global Burden of Disease as Research Translation"</i>	
S 2018	HEST 399	Engineering for Global Health Solutions	1 week
S 2017		<i>"Global Health and the Environment"</i>	
S 2016			
S 2015			
F 2019	H 541	Air Quality and Human Health	1 week
F 2018		<i>"Assessing Exposure and Health Risks to Air Pollution"</i>	
W 2017			
W 2016			
W 2018	H 544	Environmental and Occupational Epidemiology	1 week
S 2017		<i>"Air Pollution Epidemiology"</i>	
S 2015			
W 2018	H 543	Exposure Science	2 weeks
W 2017		<i>"Assessing Air Pollution Exposures"</i>	
W 2016			
F 2016	GEOG 201	Introduction to Geospatial Science and Technology	1 week
F 2015		<i>"GIS Applications to Health Research"</i>	

F 2015	H5 595	Design for Environment, Safety & Health <i>"Healthy Built Environments"</i>	1 week
W 2014	ENSC 515	Environmental Perspectives & Methods "Place and Health"	1 week

### Additional Instruction

Quarter	Course #	Course Title/Institution/Lecture	Duration
S 2023 S 2022 S 2021	Workshop	Two day workshop for the Columbia University, Skills for Health and Research Professionals. "Google Earth Engine for Environmental Health Research"	2 days
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 2010	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

- Member of MFC committee to advise on MPH related program curriculum and activities.
- Developing bridge training for carbon emission reductions at OSU as part of the Senate Carbon Commitment Committee (C3) activities.
- Development of H244 Human and Planetary Health. This course is being developed to address the scientific inquiry category of the new OSU Core-Education curriculum.
- Professional Development and Leadership: Member of the ad-hoc committee to develop new curriculum for Public Health graduate students to gain professional and leadership skills.
- HHS524, Public Health Solutions: Member of the updated integrated MPH core re-design team. Lead the development of a 3 credit course that will serve as a capstone applied project course for all second year MPH students. The course is being developed as an in-person and Ecampus course.
- H513, Integrated Approaches to Public Health: Member of the integrated core team that created and delivery H513. This is a 12 credit course that was developed in response to the CEPH national initiative to transform public health degree programs to meet the needs of Public Health in the 21<sup>st</sup> century.
- H513 (Hybrid), Integrated Approaches to Public Health: Member of the integrated core team that modified 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. 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 integrate weekly content.

- H547, 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 Cascadia EOH conference.
- H642, Environmental and Regulatory Risk Assessment: This course was co-developed to fill the need for a risk assessment course focused specifically on environmental and occupational risk factors.
- H683, 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.

## Student Evaluation

### Oregon State University

Course	Quarter	n/N	Item #1	Item #2
H547 GIS and Public Health	W 2024	5/14	6.0	6.0
	W 2023	7/14	5.9	6.0
	W 2022	9/27	5.9	5.9
	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
HHS524 Public Health Solutions	F 2024	9/24	4.8	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 2022	10/20	5.2	5.7
	F 2021	10/41	4.9	5.4
	F 2020	21/43	4.6	4.8
	F 2019	13/46	5.0	5.3
	F 2018	24/53	4.5	4.9
	F 2017	28/54	4.8	4.7
HHS513 Integrated Approach to Public Health I	F 2020	9/24	4.6	5.4

HHS514 Integrated Approach to Public Health II	F 2020	10/26	5.0	5.6
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 \_\_\_\_."

## Advising

### Postdoctoral Trainees

Trainee	Years	Department	Role	Current Position
Foster, Stephanie	23 -	EOH	Primary Supervisor	-
Willis, Marry	21 - 22	EOH	Primary Supervisor	Assistant Professor, Boston University
Chunxue, Xu	22 - 22	EOH	Primary Supervisor	Senior Data Engineer, ESRI
Wesselink, Amelia	20 - 21	Epi (BU)	Mentor	Assistant Professor, Boston University
Larkin, Andrew	16 - 19	EOH	Primary Supervisor	Assistant Professor, Senior Research OSU
Cusack, Leanne	16 - 18	EOH	Primary Supervisor	Assistant Professor, Western Oregon University
Roper, Courtney	17 - 18	EMT	Mentor	Assistant Professor, University of Mississippi

### Doctoral Students

OSU Trainee	Years	Department	Role	Status
Nayeem, Abdullah Al	24 -	EOH	Major Advisor	
Agnew, Matthew	24 -	EOH	Committee	
Amram, Simon	23 -	EOH	Co-Major Advisor	
Nones, Madalyn	23 -	EOH	Major Advisor	
Yeomans, Kirstin	23 -	EOH	Major Advisor	
Germano, Francesca	23 -	EOH	Committee	
Bugammaz, Mariam	22 -	EOH	Committee	
Chang, Sharon	22 -	EOH	Committee	
Aslam, Memuna	22 -	HMP	Committee	
McCrary, Victoria	24 -	Engineering	Committee	
Bianca, Chris	19 -	Environmental Sciences	Committee	
Asseko, Sigride	18 - 24	EOH	Major Advisor	Graduated
Foster, Stephanie	18 - 23	EOH	Committee	Graduated
Boakye, Kwadwo	17 - 22	Epi	Major Advisor	Graduated
Hanley, Barbara	15 - 22	EOH	Committee	Graduated
Wang, Ying	17 - 21	EOH	Major Advisor	Graduated
Andrews, Faye	17 - 21	EOH	Committee	Graduated

Willis, Mary	16 - 20	EOH	Major Advisor	Graduated
Bigouette, JP	17 - 20	Epi	Co-Major Advisor	Graduated
Welch, Barrett	16 - 20	EOH	Committee	Graduated
Chunxue, Xu	17 - 21	CEOAS	Committee	Graduated
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
<b>Non-OSU</b>	<b>Years</b>	<b>Department</b>	<b>Role</b>	<b>Status</b>
Nielsen, Charlene	14 - 18	University of Alberta	Committee	Graduated
Shupler, Matt	15 - 21	UBC	Committee	Graduated
Liu Zhi Guang	18 - 21	National Clinical Research Center for Cardiovascular Disease Fuwai Hospital, China	Committee	Graduated

### Masters Students

OSU Trainee	Years	Department	Role	Status
Burns, Daniel	24 -	EOH	Major Advisor	
Allison Hagihara	23 -	EOH	Major Advisor	
Shaiban, Kanar	23 -	Applied Public Health	Major Advisor	
Franz, Bruce	21 -	EOH	Major Advisor	Graduated
Sprandlin, Jordan	21 -	EOH	Committee	Graduated
Kristofik, Carly	20 -	Applied Public Health	Major Advisor	Graduated
MacMullan, Rebecca	20 -	Applied Public Health	Major Advisor	Graduated
Huang, Tianhong	20 -	Computer Science	Committee	Graduated
Amstutz, Eliza	20 -	Geography	Committee	Graduated
Cocks, Meredith	18 - 20	EOH	Major Advisor	Graduated
Sporrer, Kyle	18 - 20	International health	Major Advisor	Graduated
Reyes, Cristian	18 - 20	EOH	Major Advisor	Graduated
Samuel Lichlyter	18 - 20	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

OSU Trainee	Years	Department	Role	Status
Fantoni, Costanza	18 - 19	EOH Sciences	Major Advisor	Graduated

## Peer Evaluation of Teaching

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

## C. SCHOLARSHIP AND CREATIVE ACTIVITY

I have published over 160 articles examining diverse environmental and human health issues (Citations: 17,740, h-Index: 66, i10-Index: 151) – 30% as first or senior author and 38% with students or mentees as the lead author.

\*Indicates student or mentee, Journal Impact Factor (IF)

### Refereed Publications

1. Scott A Lear, Martin McKee, **Perry Hystad**, Blake Byron Walker, Adrianna Murphy, Michael Brauer, Marjan Walli-Attai, Annika Rosengren, Sumathy Rangarajan, Clara K Chow, Salim Yusuf. Social factors, health policy, and environment: implications for cardiovascular disease across the globe. 2025. *European Heart Journal*, ehaf212. IF: 39.3.
2. Olufunso, Oje\*, Ofer Amram, **Perry Hystad**, Assefaw Gebremedhin & Pablo Monsivais Use of individual Google Location History data to identify consumer encounters with food outlets. *International Journal of Health Geographics* (2025) 24:1. IF: 4,1,
3. Li Yi, Jaime E. Hart, Charlotte Roscoe, Unnati V. Mehta, Marcia Pescador Jimenez, Pi-I Debby Lin, Esra Suel, **Perry Hystad**, Steve Hankey, Wenwen Zhang, Olivia I. Okereke, Francine Laden, Peter James. Greenspace and depression incidence in the US-based nationwide Nurses' Health Study II: A deep learning analysis of street-view imagery. 2025. *Environment International*. Volume 198, April 2025, 109429. IF: 13.4.
4. Li Yi, Sheryl Rifas-Shiman, Marcia Pescador Jimenez, Pi-I Debby Lin, Esra Suel, **Perry Hystad**, Andrew Larkin, Steve Hankey, Wenwen Zhang, Jochem Klomp maker, Emily Oken, Marie-France Hivert, Izzuddin Aris, Peter James. Assessing greenspace and cardiovascular health through deep-learning analysis of street-view imagery in a cohort of US children. *Environmental Research*. Volume 265, 15 January 2025, 120459. IF: 8.4.
5. **Perry Hystad**, Elaine L Hill, Andrew Larkin, David Schrank, Max Harleman, Evan Volkin, Erin J Campbell, John Molitor, Lena Harris, Beate R Ritz, Mary D Willis. Changes in traffic-related air pollution exposures and associations with adverse birth outcomes over 20 years in Texas. 2025. *International Journal of Epidemiology*, 54(1). IF: 9.7.
6. Daniel J Corsi, PhD, Simone Marschner, Scott Lear, **Perry Hystad**, Annika Rosengren, Rosnah Ismail, Karen Yeates, Sumathi Swaminathan, Thandi Puoane, Chuangshi Wang, Yang Li, Sumathy Rangarajan, Iolanthe M Kruger, Jephath Chifamba, K Vidhu Kumar, Indu Mohan, Prof Kairat Davletov, Prof Galina Artamonov, Lia M Palileo-Villanueva, Nafiza Mat-Nasir, Katarzyna Zatonska, Aytekin Oguz, Ahmad Bahonar, Prof Khalid F Alhabib, Afzalhussein Yusufali, Patricio Lopez-Jaramillo, Fernando Lanas, Agustina Galatte, Álvaro Avezum, Prof Martin Mckee, Prof Salim Yusuf, Prof Clara K Chow. Assessing the built environment through photographs and its association with obesity in 21 countries: the PURE Study. 2024. *Lancet Global Health*, Volume 12, Issue 11e1794-e1806. IF: 19.9
7. Li Yi, Sheryl Rifas-Shiman, Marcia Pescador Jimenez, Pi-I Debby Lin, Esra Suel, **Perry Hystad**, Andrew Larkin, Steve Hankey, Wenwen Zhang, Jochem Klomp maker, Emily Oken, Marie-France Hivert, Izzuddin Aris, Peter James. Assessing greenspace and cardiovascular health through deep-learning analysis of street-view imagery in a cohort of US children. 2025. *Environmental Research*, 265, 120549. IF: 8.4.

8. David M Stieb, Li Chen, **Perry Hystad**, Robyn Rittmaster, Eric Lavigne. Outdoor nitrogen dioxide exposure and longitudinal health status trajectory in the Canadian National Population Health Survey. *Scientific Reports*, 14(1): 30724. IF: 3.8
9. Ofer Amram, Olufunso Oje, Andrew Larkin, Kwadwo Boakye, Ally Avery, Assefaw Gebremedhin, Bethany Williams, Glen E Duncan, **Perry Hystad**. Smartphone Google Location History: A Novel Approach to Outdoor Physical Activity Research. 2024. *Journal of Physical Activity and Health*, 1: 1-9. IF: 5.5
10. Li Yi, Soren Harnois-Leblanc, Sheryl L Rifas-Shiman, Esra Suel, Marcia Pescador Jimenez, Pi-I Debby Lin, **Perry Hystad**, Steve Hankey, Wenwen Zhang, Marie-France Hivert, Emily Oken, Izzuddin M Aris, Peter James. Satellite-Based and Street-View Green Space and Adiposity in US Children. 2024. *JAMA Network Open*, 7(12): e2449113-e2449113 IF: 13.8
11. Mary D Willis, Fintan Mooney, Jennifer Weuve, **Perry Hystad**, Heyden Walker, Addie Walker, Amy Stelly, Stacy Fox, Loretta Lees. The Promises and Potential Pitfalls of Highway Reclamation for Population Health: A Research Framework. 2024. *Journal of Urban Health*, 101(6): 1270-1273. IF: 5.8
12. Amelia K Wesselink, Emma L Gause, Keith D Spangler, **Perry Hystad**, Kipruto Kirwa, Mary D Willis, Gregory A Wellenius, Lauren A Wise. Exposure to Ambient Heat and Risk of Spontaneous Abortion: A Case–Crossover Study. (2024). *Epidemiology*, 35(6): 864-873. IF: 6.2.
13. Olufunso Oje, Tashi Stirewalt, Ofer Amram, **Perry Hystad**, Solmaz Amiri, Assefaw Gebremedhin. HierGP: Hierarchical Grid Partitioning for Scalable Geospatial Data Analytics. 2024. *ACM Transactions on Spatial Algorithms and Systems*. doi.org/10.1145/3699511. IF: 1.9.
14. Lena Harris, Max Harleman, Mary D Willis, **Perry Hystad**, Elaine L Hill. Limited impact of roadway construction and traffic congestion on nearby housing prices. 2024. *Transport Policy*, 157: 1-9. IF: 6.3.
15. Elaine Hill, Max Harleman, Lena Harris, Grace Sventek, Beate Ritz, Erin J Campbell, Mary Willis, **Perry Hystad**. Roadway construction as a natural experiment to examine air pollution impacts on infant health. 2024. *Environmental Research*, 252, 188788. IF: 7.7
16. Cameron J Reimer, Mary D Willis, Amelia K Wesselink, **Perry Hystad**, Erin J Campbell, Elizabeth E Hatch, Kipruto Kirwa, Jaimie L Gradus, Marco Vinceti, Lauren A Wise, Marcia Pescador Jimenez. Exposure to Residential Greenness, Perceived Stress, and Depressive Symptoms in a North American Preconception Cohort. 2024. *Environmental Research*, 119438. IF: 7.7
17. Mary D. Willis, Lena Harris, Erin J. Campbell, Ethan Sawyer, Mira Chaskes, Beate Ritz, Elaine L. Hill, **Perry Hystad**. Assessing the influence of electronic tolling on air pollution, traffic congestion, and infant health in a population-based cohort study. 2024. *Environment International*, 183; 108355. IF: 13.4
18. Mary D. Willis, Elaine L. Hill, Collette Ncube, Erin Campbell, Lena Harris, Max Harleman, Beate Ritz, **Perry Hystad**. Changes in socioeconomic disparities for traffic-related air pollution exposure during pregnancy over a 20-year period in Texas. 2024. *JAMA Netw Open*. 2023;6(8):e2328012. IF: 13.8
19. Amelia K. Wesselink, Kipruto Kirwa, **Perry Hystad**, Joel D. Kaufman, Adam A. Szpiro, Mary D. Willis, David A. Savitz, Jonathan I. Levy, Kenneth J. Rothman, Ellen M. Mikkelsen, Anne Sofie Dam Laursen, Elizabeth E. Hatch, Lauren A. Wise. Ambient air pollution and rate of spontaneous abortion. 2024. *Environmental Research Volume 246*, 118067. IF: 8.4

20. Stephanie A. Foster\*, Molly L. Kile, **Perry Hystad**, Miriam L. Diamond, Liisa M. Jantunen, Piush J. Mandhane, Theo J. Moraes, Garthika Navaranjan, James A. Scott, Elinor Simons, Padmaja Subbarao, Tim K. Takaro, Stuart E. Turvey, Jeffrey R. Brook. Organophosphate ester flame retardants and plasticizers in house dust and mental health outcomes among Canadian mothers: A nested prospective cohort study in CHILD. 2024. *Environmental Research*. Volume 240, Part 1. IF: 8.4
21. Andrew Larkin, Mary D. Willis, Lena Harris, Beate Ritz, Elaine L. Hill, **Perry Hystad**. High Traffic Roads and Adverse Birth Outcomes: Comparing Births Upwind and Downwind of the Same Road *American Journal of Epidemiology*, 193 (12): 1720-1728. IF: 5.8
22. Markey Johnson, Lauren Mazur, Mandy Fisher, William D. Fraser, Liu Sun, **Perry Hystad**, and Chintan K. Prenatal Exposure to Air Pollution and Respiratory Distress in Term Newborns: Results from the MIREC Prospective Pregnancy Cohort. *Environmental Health Perspectives*. 2024 Vol 132, Issue 1. IF: 9.0
23. GS Downward, **P Hystad**, S Tasmin, SK Abe, E Saito, MS Rahman, MR Islam, PC Gupta, N Sawada, R Malekzadeh, SL You, H Ahsan, SK Park, MS Pednekar, S Tsugane, A Etemadi, CJ Chen, A Shin, Y Chen, P Boffetta, KS Chia, K Matsuo, YL Qiao, N Rothman, W Zheng, M Inoue, D Kang, Q Lan, RCH Vermeulen. Long-term exposure to particulate matter and all-cause and cause-specific mortality in an analysis of multiple Asian cohorts. 2024. *Environment International*, 108803. IF: 13.4
24. Jochem O Klomp maker, Daniel Mork, Antonella Zanobetti, Danielle Braun, Steve Hankey, Jaime E Hart, **Perry Hystad**, Marcia Pescador Jimenez, Francine Laden, Andrew Larkin, Pi-I Debby Lin, Esra Suel, Li Yi, Wenwen Zhang, Scott W Delaney, Peter James. Associations of street-view greenspace with Parkinson's disease hospitalizations in an open cohort of elderly US Medicare beneficiaries. 2024. *Environment International*, 188. IF: 13.4
25. Ali Moro, Engelbert A Nonterah, Kerstin Klipstein-Grobusch, Samuel Oladokun, Paul Welaga, Patrick O Ansah, **Perry Hystad**, Roel Vermeulen, Abraham R Oduro, George Downward. Early life ambient air pollution, household fuel use, and under-5 mortality in Ghana. 2024. *Environment International*, 187. IF: 13.4
26. Mengya Li, Yang Li, Zhiguang Liu, **Perry Hystad**, Sumathy Rangarajan, Lap Ah Tse, Scott A Lear, Yuanting Ma, Mengxin Chen, Guoliang Han, Ruotong Li, Salim Yusuf, Lisheng Liu, Bo Hu, Wei Li, PURE-China Investigators. Associations of perceived built environment characteristics using NEWS questionnaires with all-cause mortality and major cardiovascular diseases: The prospective urban rural epidemiology (PURE)-China study. 2024. *Environment International*, 187. IF: 13.4
27. Andrew Larkin, Megan MacDonald, Dixie Jackson, Molly L Kile, **Perry Hystad**. Identifying children's environmental health risks, needs, misconceptions, and opportunities for research translation using social media. 2024. *Exploration of Digital Health Technologies*, 2(2). IF: na.
28. Meng Qi, Chunxue Xu, Wenwen Zhang, Matthias Demuzere, Perry Hystad, Tianjun Lu, Peter James, Benjamin Bechtel, Steve Hankey. Mapping urban form into local climate zones for the continental US from 1986–2020. 2024. *Scientific Data*, 11(1): 198. IF: 9.8
29. Amelia K. Wesselink, **Perry Hystad**, Kipruto Kirwa, Joel D. Kaufman, Mary D. Willis, Tanran Wang, Adam A. Szpiro, Jonathan I. Levy, David A. Savitz, Kenneth J. Rothman, Elizabeth E. Hatch, Lauren A. Wise. Air pollution and fecundability in a North American preconception cohort study 2023. *Environment International*. Volume 181, 108249. IF: 8.4

30. Shayla Victoria\*, Lisandra Trine, **Perry Hystad**, and Courtney Roper. Indoor and Personal PM<sub>2.5</sub> Samples Differ in Chemical Composition and Alter Zebrafish Behavior Based on Primary Fuel Source. *Environ. Sci. Technol.* 2023, 57, 50, 21260–21271. IF: 11.4
31. Gaige Hunter Kerr\*, Daniel L. Goldberg, Maria H. Harris, Barron H. Henderson, **Perry Hystad**, Ananya Roy, and Susan C. Anenberg. Ethnoracial Disparities in Nitrogen Dioxide Pollution in the United States: Comparing Data Sets from Satellites, Models, and Monitors. *Environ. Sci. Technol.* 2023, 57, 48, 19532–19544. IF: 11.4
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### Manuscripts in Press, Under Review, In Preparation

1. **Hystad P**, Rugel E, Larkin A, et al. Yusuf, S. Urban Green Space and Health: Findings from 338 Communities in 19 Countries within the Prospective Urban and Rural Epidemiology Study. Under review in *Science Advances* (Jan 2023).
2. John Paul Bigouette, Jeffrey Bethel, Justin Wettstein, Adam Branscum, David Wrathall, **Hystad, P.** Application and Evaluation of Daily Heat Exposure Metrics using the Global Land Data Assimilation Products: Results from the Multi-National Prospective Urban Rural Epidemiology Study. In Preparation for Environmental Research.
3. Sigride Vencesla Jenniska Asseko, Alain Desouza, Medard Obiang Ebanega, Robert Vancesl Obiang Zogod Nicole S. Ngoe, **Perry Hystad**. Influence of Personal and Neighborhood Low-Cost Sensors on Changing Air Pollution Awareness, Perceptions, and Behaviors in Gabon, Africa. In preparation for *Science of the Total Environment*.
4. **Hystad, P**, Larkin A., Lizhong D., Krishna, A., Amram O, Tsang S., Avery A., Duncan G. Deep Learning of Street View Imagery to assess Urban Green Space Relationships with Mental Health: A Twin Study. In preparation for *Environmental Health Perspectives*.
5. B.D. Williams, O. Amram, A. Larkin, G.E. Duncan, A.R. Avery, **P. Hystad**. Investigating links between residential streetscapes and physical activity using deep learning of Google Street View imagery applied to the Washington State Twin Registry. In preparation for *Cities*.
6. **Perry Hystad**, MyLinh Duong, Michael Brauer et al. Salim Yusuf. Outdoor Fine Particulate Matter Air Pollution and Lung Function in 118,000 Adults from 21 Countries. In preparation for *Environment International*.
7. Mary Willis, Andrew Larkin, Michael Brauer, et al. **Perry Hystad**. Patterns of Environmental Inequities Across 748 Communities and 21 Countries: Results from the Prospective Urban and Rural Epidemiology Study. In Preparation for *Lancet Global Health*.
8. **Perry Hystad**, Funso Oje, Andrew Larkin, Kwadwo Boakye, Ally Avery, Assefaw Gebremedhin, Glen Duncan, Ofer Amram. Determining causal effects of the built environment on physical activity using years of personal-time activity data from smartphones. In preparation for *Health and Place*.
9. **Perry Hystad**, Andrew Larkin, Michael Brauer et al. Salim Yusuf. Chronic and Acute Exposure to Ambient Nitrogen Dioxide Air Pollution and Chronic Disease in the Global Prospective Urban and Rural Epidemiological Study. In preparation for *Environment International*.

10. Andrew Larkin, Tianhong Huang, Lizhong Chen, Peter James, **Perry Hystad**. Predicting Street-Level Perceptions of the Built Environment for the Continental United States. In preparation for Journal of Exposure Science and Environmental Epidemiology.

### 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.

### Community Outreach Newsletters, Webinars, Participant Reports (Non-Peer Reviewed Publications)

1. **Hystad, P.**, Amram, O., Avery A., Duncan G. (2022-ongoing). Participant report back of environmental exposures from long-term smart phone location data provided to the Washington State Twin Registry. Information includes traffic air pollution (NO<sub>2</sub>) levels, ambient PM<sub>2.5</sub> levels, time spent outdoors in nature, time spent walking and cycling outdoors.
2. Michael Brauer, Jeffrey R. Brook, Tanya Christidis, Yen Chu, Dan Crouse, Anders Erickson, **Perry Hystad**, Chi Li, Randall V Martin, Jun Meng, Amanda J. Pappin, Lauren L. Pinault, Michael Tjepkema, Aaron van Donkelaar, Scott Weichenthal, Richard T Burnett (2023) Mortality–Air Pollution Associations in Low-Exposure Environments (MAPLE): Phase 1. Health Effects Institute Final Research Report.  
<https://www.healtheffects.org/publication/mortality%E2%80%93air-pollution-associations-low-exposure-environments-maple-phase-1>
3. Core Author. Fifth Oregon Climate Assessment. Public Health Impacts. (2021)  
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4. **Hystad, P.**, **Larkin A.** (2022). Updating the Canadian National Nitrogen Dioxide Land Use Regression Model. Prepared for: *Health Canada*.
5. **Hystad, P.**, Brauer M, Shupler, M. et al, Yusuf S. (2019). Personal and Household Air Pollution report-back. These reports provided over 3,000 PURE-Air participants with summaries of their air pollution monitoring results, comparison to their community averages, and health guidelines, and resources to reduce household and personal air pollution exposure.
6. **Hystad, P.** **Larkin A.** (2018). Development of fine-scale predictions of nitrogen dioxide air pollution predictions for Canada using land use regression models and fixed site air pollution measurements. Prepared for: Health Canada.
7. **Hystad, P.** (2016). Traffic Related Air Pollution and Green Space: Exposure Assessment and Health Impacts. Prepared for: Health Canada.
8. **Hystad, P.** (2014). Developing a National Nitrogen Dioxide Model and Vehicle Exposure Measures to Apply to the Canadian Census Cohort. Prepared for: Health Canada.

9. **Hystad, P.** (2013). Radon in British Columbia Schools: Concentrations, Associations with Residential Measurements, and Mitigation Results. Prepared for: BC Center for Disease Control
10. **Hystad, P.**, Brauer, M. (2012). Climate Change, Air Quality and Health in Canada. Prepared for: Public Health Agency of Canada.
11. **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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.

**Conference Presentations** (first author abstracts only):

1. **Hystad P.** (2023) Assessing Air Pollution and Associations with Cardiovascular Disease Globally: Lessons Learned from the PURE Study. Health Effects Institute Annual Conference. Boston, USA.
2. **Hystad P.** (2023) Changes in the Association between Adverse Birth Outcomes and Traffic Air Pollution in Texas over a 20 Year Period. Health Effects Institute Annual Conference. Boston, USA.
3. **Hystad P.** (2023) Moving Environmental Epidemiology Forward with New Methods, Data and Technologies. Cascadia Annual Conference. Semiahmoo, USA.
4. **Hystad P.** (2022) The TRANSIT Accountability Study: Adverse Birth Outcomes and Traffic Air Pollution in Texas. Health Effects Institute Annual Conference. Washington, DC, USA.
5. **Hystad P.** (2021) Green Space Exposure in Health Studies: Viewing the Street. Nature and Health Conference. Seattle. USA
6. **Hystad P.** (2021) Green Space and Mental Health in the Washington State Twin Study. Nature and Health Conference. Seattle. USA

7. **Hystad P.** (2018) Global Assessment of Air Pollution in the PURE Cohort. International Society of Environmental Epidemiology. Ottawa, Canada
8. **Hystad P.** (2016). Smart Phones to Satellites to Sensors: Future Tools and Directions for External Exposure Assessment. Rome, Italy.
9. **Hystad P.** (2016) Household Air Pollution and Cardiovascular Disease Risk. International Society of Environmental Epidemiology. Rome, Italy
10. **Hystad P.** (2016) Novel Methods and Applications for Green Space and Health Research. American Public Health Association. Denver, USA.
11. **Hystad P.** (2015) Unpacking the Green Box of NDVI and its Associations with Health. International Society of Exposure Science. Henderson, USA.
12. **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.
13. **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.
14. **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.
15. **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.
16. **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.
17. **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.
18. **Hystad, P.**, Setton, E., Cervantes, A., Poplawski, K., Deschenes, S., Brauer, M., Martin, R., van Donkelarr, 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.
19. **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.
20. **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.
21. **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.
22. **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.

23. **Hystad, P.** (2008). Indoor Infiltration of Particulate Matter. 5<sup>th</sup> Annual BC Lung Association Air Quality and Health Workshop. Vancouver, Canada.
24. **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.
25. **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.
26. **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.
27. **Hystad, P.** (2006). Towards a model for predicting residential PM<sub>2.5</sub> infiltration. Environment Canada Air Quality 2006. Ottawa, Canada.

### **Invited Lectures and Presentations**

1. AI and Environmental Exposure Science. Invited Plenary Speaker. Health Effects Institute Annual Conference. Austin, USA. March 2025.
2. The TRANSIT Accountability Study: Assessing impacts of vehicle emission regulations and local congestion policies on birth outcomes associated with traffic air pollution. Simon Fraser University Department of Health Seminar. Vancouver, Canada. Feb 2025.
3. Climate Change as a Driver of Cardiovascular Disease. Population Health Research Institute 25<sup>th</sup> anniversary symposium. Invited Presentation. Hamilton, Canada. Nov. 2024.
4. Moving to the Street-Level for Green Space Exposure Assessments. Radcliffe Exploratory Seminar, Grafting Ecology and Epidemiology: Embedding Cutting-Edge Metrics of Nature into Public Health. Boston. July 2023.
5. Lessons Learned from the PURE Study on Creating Sustainable International Research Partnerships. Health Effects Institute Annual Conference. Boston 2023.
6. Prioritizing Geospatial Needs in Environmental Epidemiology: Better Data, Models, and Methods. National Cancer Institute (NCI) Geographic Working Group. Virtual Meeting. April 2022.
7. Human Health Impacts of Climate Change. Oregon Public Health Association Annual Conference. Invited Presenter and Closing Panelist. Improving Health through the Planned Environment: A Call to Action on Health, Climate, and Equity. Virtual Conference. October 2021
8. Assessing Multiple Non-Chemical Stressors Using Geographic Information Systems. EPA Workshop. Non-Chemical Stressors. Virtual Meeting. October 2021.
9. Finding Common Language for Environmental Exposure Assessment. NIH Workshop. Catalyzing Knowledge-Driven Discovery in Environmental Health Sciences through a Harmonized Language. Virtual Meeting. Sept 2021.
10. Identifying and Adapting to Climate Change as a Modifiable Risk Factor for Chronic Disease. CPHHS Research Seminar. Corvallis, Oregon. November 2021.
11. Transitions in Global Environmental Health Research. Population Health Research Institute. McMaster Canada. March 2021

12. Leveraging New Technologies to Measure and Model the External Environment. University of Kentucky P30 Center, Seminar Presentation. Virtual. February 2021
13. Characterizing complex exposures associated with built environments. The Canadian Urban Environmental Health Research Consortium (CANUE) Annual Meeting. Vancouver Canada. June 2019.
14. Exploring the health benefits of long-term exposure to nature. Health & Nature Symposium. Texas A&M University. January 2019.
15. Quantified Personal Environments. TEDMed Portland. December 2018
16. Towards Personal Exposure: How Technology is Changing Environmental Health Research. Harvard School of Public Health Seminar. October 2018.
17. Redefining exposure assessment for built environment research. Harvard Medical School Seminar. October 2018.
18. Measuring and Modelling the External Environment. Utrecht University Exposome Hub Launch. Utrecht, Netherlands. June. 2018.
19. Global Estimates of Fine Particulate Matter's Impact on Health. McMaster Global Health Summit. Hamilton, Canada. January 2017.
20. Healthy Built Environments. Canadian Urban Environmental Health Research Consortium. Toronto, Canada. November. 2016.
21. Pathways Linking Urban Green Space to Health. European Meeting on Urban Green Space and Health. Munich, Germany. September. 2016.
22. 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 2016.
23. Global Assessment of Environmental Health Risk Factors in the Context of Modifiable Risk Factors for Cardiovascular Disease. Prospective Urban and Rural Epidemiology Meeting. Lisbon, Portugal. September 2016.
24. PURE-Air: A Global Assessment of Air Pollution and Cardiopulmonary Disease. University of Washington, Environmental and Occupational Seminar. May 2016.
25. New Technology for Estimates Environmental Exposures. CREAL Future of Environmental Epidemiology workshop. Barcelona, Spain. November 2015.
26. What is Green Space Capturing in Health Studies. Health Canada workshop on green space and mental health. Toronto, Canada. June 2015.
27. Green Space as a Cumulative Measure of Built Environment Exposures. EPA workshop on green space and cumulative risk assessment. Cincinnati, USA. May 2015.
28. PURE-Air: A Global Assessment of Air Pollution and Cardiopulmonary Disease. Center for Genome Research and Biocomputing Spring Conference. Corvallis, USA. April 2015.
29. Spatial Approaches to Environmental Health Research. Harvard JPB Social and Environmental Fellows workshop. Santa Fe, New Mexico. March 2015.
30. Household Air Pollution and Cardiovascular Disease in the PURE Study. World Health Organization Clean Cookstove Initiative. Washington DC. February 2015.
31. New Technologies for Population Based Research. NIH Common Fund Symposium, Washington DC. December 2014.

32. Data Mining Environmental Exposures. DOMINO meeting on air pollution exposure and adverse birth outcomes, October 2014.
33. Data Access as a New Researcher. Invited Presenter at NIEHS webinar (140 participants attended). May 2014.
34. Preventing Cancer in Canada - Moving Forward the Agenda through Comprehensive Population Attributable Risk Estimates. University of Calgary. April 2014.
35. NIEHS Environmental Health Sciences Core Centers Meeting. Los Angeles, USA. April 2014.
36. Estimating Industrial Air Pollution Exposures for Spatial Data Mining of Adverse Birth Outcomes. Workshop. Air Pollution and Birth Outcomes, Edmonton, Alberta. January 2014.
37. Residential Greenness and Birth Outcomes: Separating Effects from Spatially Correlated Built Environment Exposures. Annual Occupational, Environmental and Public Health Conference. Semiahmoo, Washington, January 2014.

### **Current Grant Support**

1. PURE-Climate: Identifying and Adapting to Climate Change as a Modifiable Risk Factor for Human Health. National Institute on Environmental Health Sciences. \$600,000. Principal Investigator. 09/2024–09/2025.
2. The Oregon State University Center for Advancing Science, Practice, Programming and Policy in Research Translation for Children’s Environmental Center (ASP3IRE Center). NIEHS P2C (P2C ES033432-01). \$3,665,495. PI: Molly Kile. Co-Principal Investigator of the Development Core. 12/2021–2/2026.
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 (R01HL50119). \$3,860,155. PI: Peter James. Co-Investigator. 08/2020–08/2025.
4. OSU Environmental Health Sciences Center (EHSC). Cleaner Air and Heat Relief: An Evaluation of Oregon’s Air Filter and AC Device Deployment Program and its Health Impacts on Vulnerable Populations. \$30,000. Principal Investigator. 06/2024-06/2025.
5. Smoke Preparedness Planning and Interventions for Oregon’s Children. Environmental Protection Agency. \$763,500. Co-Principal Investigator. 02/01/24-01/31/27

### **Grants Under Review/Submitted/In Preparation**

1. REACH-SPIROMICS: Research on Environmental Aeroallergens, COPD, and Health in SPIROMICS. National Health Lung and Blood Institute (NHLBI). \$5,289,666. MPI. 5<sup>th</sup> percentile, award pending.
2. Designing for Longevity: A Global Study of Built Environments and Healthy Aging. National Institute on Aging. \$3,900,000. Principal Investigator. 15<sup>th</sup> percentile.

### **Past 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//2021–07/2023.

2. Evaluating and Applying Google Location Data for Built Environment and Physical Activity Research. NIEHS (R21ES031226). \$410,000. Principal Investigator. 07/2020–07/2023.
3. TRANSIT Accountability Study: Impact of Vehicle Emission Regulations on Traffic-Related Air Pollution Exposures and Infant Health. Health Effects Institute (RFA 18-1). \$1,200,000. Principal Investigator. 04/2020–07/2024.
4. Grant-Development Fund for a Climate-Health Center Application. Oregon State University Research Office. \$30,000. Co-Principal Investigator. 05/2023–11/2023.
5. Integrating satellites, ground monitoring, and modeling to estimate long-term NO<sub>2</sub> exposures and associated pediatric asthma impacts. Health Effects Institute. \$450,000 (OSU sub-award \$200,000). PI: Susan Anenberg. Co-Investigator. 02/2020–01/2022.
6. Deep Learning of Street View Imagery to assess Urban Green Space Relationships with Mental Health: A Twin Study. NIEHS R21ES029722. \$407,000. Principal Investigator. 09/2019–08/2022.
7. Personal PAH and Chemical Mixture Exposure Measurements Using Silicone Wristbands. OSU Pacific Northwest Center for Translational Environmental Health Research. \$25,000. Principal Investigator. 05/2021–05/2022
8. PURE-Air: A Global Assessment of Outdoor Air Pollution and Cardiopulmonary Disease. NIH Director's Early Independence Awards (DP5ODO19850). \$1,669,859. Principal Investigator. 09/2014–08/2020.
9. Assessing Health Effects of Long-term Exposure to Low Levels of Ambient Air Pollution. Health Effects Institute. \$1,707,314. PI: Dr. Michael Brauer. Co-Investigator. 08/2016–10/2020.
10. Long-term Outdoor Air Pollution and Cause-Specific Mortality in a Pooled Analysis of 23 Asian Cohorts. Health Effects Institute. \$900,000. PI: Dr. Roel Vermeulen. Co-Investigator. 06/2018–12/2020.
11. Air Pollution and Health in the Prospective Urban and Rural Epidemiological Study. Canadian Institute for Health Research (CIHR). \$753,674. PI: Dr. Michael Brauer. Co-Investigator. 07/2014–06/2018
12. Air Pollution Exposure Assessment for the Asian Cohort Consortium. National Cancer Institute. \$25,000. Principal Investigator. 01/2016–01/2017.
13. Applications of GIS to County Public Health Activities. Clackamas County. \$25,000. Principal Investigator. 06/2017–12/2017.
14. Determining the Population Attributable Risk of the Major Modifiable Cancer Risk Factor in Canada. Canadian Cancer Society Research Institute. \$789,804. PI: Dr. Friedenreich. Co-Investigator. 10/2014–09/2017.
15. Development of Hybrid Models to Predict Spatially and Temporally Resolved Air Pollution Concentrations at Local and National Scales. Clean Air Regulatory Agency. \$110,000. PI: Dr. Johnson. Collaborator. 04/2014–07/2016.
16. GROW Healthy Kids and Communities. USDA Agriculture and Food Research Initiative: Childhood Obesity Prevention NIRA: 2010-04614. \$4,870,000. PI: Dr. John and Dr. Gunter. Co-Investigator. 2/2011–1/2016.

17. Spatial Data Mining: Exploring Co-Location of Adverse Birth Outcomes and Environmental Variables. National Sciences and Engineering Research Council of Canada. \$585,047. PI: Dr. Osornio Vargas. Co-Investigator. 04/2013–06/2016.
18. CAREX Canada. Surveillance of Occupational and Environmental Carcinogens. Canadian Partnership Against Cancer. \$1,600,000. PI: Dr. Paul Demers and Dr. Anne-Marie Nicol. Collaborator. 01/2006–12/2014.
19. Breast and Prostate Cancer and Exposure to Fine Particulate Matter and Nitrogen Dioxide Air Pollution: A Canadian Population-Cased Case-Control Study. Environmental Canada Clean Air Regulatory Agenda. \$60,000. PI: Dr. Paul Villeneuve. Co-Investigator. 07/2012–12/2013
20. Preventing Cancers Caused by Modifiable Environmental Risks. Beatrice Hunter Cancer Research Institute. \$40,000. PI: Dr. Trevor Dummer. Co-Investigator. 01/2012–12/2012.
21. Translating Environmental Exposure Estimates for Cancer Policy and Prevention. Canadian Institutes for Health Research Knowledge Translations Supplement. \$98,000. PI: Dr. Anne-Marie Nicol. Co-Investigator. 01/2011–12/2011.
22. Developing Environmental Health Indicators for First Nations in Canada. Canadian Institutes for Health Research Synthesis Grant. \$90,000. PI: Dr. Peter Keller. Co-Investigator. 04/2010–04/2011.

## **D. SERVICE**

### **University**

- University Innovation Advocate for the College of Public Health and Human Sciences (2021-present)
- Co-Chair, Faculty Senate Carbon Commitment Committee (C3) (2023-present)
- Member, Faculty Senate Carbon Commitment Committee (C3) (2021-2023)
- Invited Speaker, OSU NIH Grant Writing Workshops (2022-2023)
- Member, Presentation to OSU Board of Trustees on Climate Change and Health Linkages (March 2022)
- Established the OSU YouthMappers Chapter with CPHHS and CEOAS students (2023-present)
- Moderator of Stakeholder Engagement Workshop for the Development of a Graduate Translational Data Science Program (2022)
- Member, University National Institutes of Health Research Task Force (2019-2022)
- Member, Environmental Health Science Center (2013-2016)
- Conference Organizing Member, Center for Quantitative Life Sciences, OSU (September 2021)
- Member, CEOAS GIS Instructor Search Committee (2019-2020)

### **College**

- Champion for the Environmental Impacts on Human Health Signature Research Area (2025-present)

- Member of MFC committee to advise on MPH related program curriculum and activities.
- Program Director, Environmental and Occupational Health (EOH) Program (2021-2024)
- Organizer, OSU Representative for the Annual Cascadia Environmental and Occupational Health Conference (2015-present)
- Member, Professional Development and Leadership Ad Hoc Committee (2023-present)
- Participant, Public Health Insider “A Breath of Fresh Air: The Top Environmental Risks that affect Children” (May 2023)
- Member, MPH Integrated Curriculum Taskforce (2017-present)
- Member, Public Health PhD Course Ad Hoc Committee (2019-present)
- Member, EOH Instructor Search Committee (2021-2022)
- Member, CPHHS Re-Organization Budget Task Force (2021)
- Participant, CPHHS CEOAS Alumni Portland Pub Talk (2018)
- Member, Oregon Center for Health Innovation Director Search Committee (2017-2018)
- Program Director, Environmental and Occupational Health (EOH) Program (2018)
- Member, EOH Faculty Search Committee (2015-2016)
- Member, EOH Faculty Search Committee (2014-2015)

### **Service to the Profession**

#### **Invited Expert Reviewer and Editor**

- American Journal of Public Health
- Atmospheric Environment
- BMJ
- Canadian Medical Association Journal
- Canadian Public Health Journal
- Circulation
- Epidemiology
- Environmental Health Perspectives (editorial board member, top 15% reviewer)
- Environmental Health
- Environmental Science and Technology
- Environmental Research
- Environmental Pollution
- Health and Place
- International Journal of Infectious Disease
- International Journal of Epidemiology

- International Journal for Environmental Research and Public Health
- Lancet
- Lancet Planetary Health
- Journal of American Heart Association
- Journal of Environmental Epidemiology and Exposure Science
- Nature Communications
- Proceedings to the National Academy of Sciences
- Science of the Total Environment
- Science Advances

### **Grant Review**

- NIH K99-R00 Review Panel (July 2024)
- NIH Climate-Health P20 Center Review Panel (August 2023)
- NIH R13 Conference Grant Review Panel (April 2023)
- Oregon Clinical and Translational Research Institute KL2 Review Panel (November 2022)
- NIH K99-R00 Review Panel (November 2022)
- NYU Climate-Environmental Health Research Translation Pilot grants (August 2022)
- Research Grants Council (RGC) of Hong Kong Review Panel (January 2022)
- NIH K99-R00 Review Panel (June 2021)
- Health Effects Institute (HEI) Air Pollution and Health RFA Review Panel (March 2021)
- NIH K99-R00 Review Panel (February 2021)
- NIEHS Institutional Research Training Grant (T32) Review Panel (November 2020)
- NIH K99-R00 Review Panel (June 2020)
- NIH K99-R00 Review Panel (July 2019)
- Health Canada Clean Air Regulatory Agenda (CARA) Standing Review Panel (2015-2019)
- South Coast Air Quality Management District Review Panel (June 2016)
- NIH Community Influences on Health Behavior Study Section Review Member (February 2016)
- Medical Research Council (UK) Reviewer (2016-2017)

### **External Committees/Advisory Boards**

- Invited Participant, Gateway Exposome Coordinating Center workshop. Los Angeles. March 2025.
- Advisory Member, Prospective Urban and Rural Epidemiology study (2024-present).
- Invited participant, European Union (EU) Working Group on Earth Observation (GEO) Human Planet Initiative (HPI) Work Plan (2023-present)

- Scientific advisory board member, Prospective Urban and Rural Epidemiology (PURE) cohort study (2020-present)
- Scientific advisory board member, EU Expanse Research Project (2020-present)
- Member, Cascadia Occupational and Environmental Health Academic Consortium (COEHAC) (2022-present)
- Invited Participant, All-of-Us Research Program. Integrating Environmental Data into the All of Us Research Program (July 2022)
- Committee member, NIEHS Place-Based Exposures Ontology Working Group (2021-2023)
- Lead, Cascadia Conference Built Environment and Health Working Group, (2022-2023)
- Member, Cascadia Environmental and Occupational Conference Organizing Committee (2008-present)
- Invited participant, Accelerating Precision Environmental Health: Demonstrating the Value of the Exposome, NIEHS (June-September 2022)
- External advisory board committee member, Oregon Public Health Tracking Network (2017-2022)
- Advisory board member, Wildfire Smoke and Infant Health Study. Pacific Northwest Center for Translational Environmental Health Research (2021)
- Invited participant, NIEHS Evaluating non-chemical stressors for children's environmental health protection (October 2021)
- Invited participant, NIEHS Catalyzing knowledge-driven discovery in environmental health sciences through a harmonized language (July 2021)
- Invited participant, NIH Integrating Multiscale Geospatial Environmental Data into Large Population Health Studies (June 2021)
- Elected director, Canadian Urban Environmental Health Research Consortium (2018-2020)
- Committee member, Clean Air Oregon Hazard Index Technical Advisory Board (June-December 2018)
- Invited participant, Environmental Protection Agency i-Tree Collaborative Metrics Meeting (January 2019)
- Member, International Society for Environmental Epidemiology Conference Steering Committee (2018-2019)
- External advisory board committee member, Population Longevity and Community Environment (PLACE) Research Grant (2016-2020)
- External advisory board committee member, Ontario Cancer Care Prevention System Quality Index (2015-2017)
- External scientific advisory board committee, Ontario Environmental Burden of Cancer (2015)
- Member, Canada Clean Air Regulatory review board (2014)
- Advisory board member, Cancer Care Ontario's Primary Prevention Measures Framework (2013)

- Advisory board member, Vancouver Coastal Health Authority My health-My Community (2012)
- Committee member, Development of a framework to assist communities in the characterization of vulnerability to environmental contamination. Commission for Environmental Cooperation (2012)
- Advisory board committee member, Spatial Data Working Group, Population Data BC. (2010-2013)
- Chair, International Society of Environmental Epidemiology Student and New Researchers' Network (2009-2011)
- Student Representative, International Society of Environmental Epidemiology (2009-2011)
- 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 for public health, engineering and policy (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)

### **Professional Membership**

- International Society of Exposure Science (2008-present)
- International Society of Environmental Epidemiology (2007-present)

### **Service to the Public**

- Member, Energy Trust of Oregon, Health Navigator Working Group (2022-2023)
- Advisor, Oregon Environmental Council on air quality and climate co-benefits (2018-2022)
- Collaborator, Local NGO (South Corvallis Air) to conduct monitoring around a local glass-fiber plant (2017-2019)
- Establish a new Public Health Informatics position at Clackamas County public health (2017-2018)
- Testimony to the Oregon Senate on the health impacts of diesel engine exhaust (2017)
- Presented at the Corvallis Academy for Lifelong Learning (ALL) (2016)

- Partnered with Natural Opus (NGO) to address community air quality concerns in Philomath (2015)

## Media Converge

- Media coverage of article “A population-based cohort study of traffic congestion and infant growth using connected vehicle data” (2022)
  - [Traffic congestion may be linked to lower birthweights, study finds](#) News Medical 11/15/2022
  - [Highway and traffic pollution could be connected to low birthweight](#) Popular Science 10/28/2022
  - [Traffic jams are tied to lower birth weights, study finds](#) The Verge 10/28/2022
- Media coverage on the newly established NIEHS ASP3IRE Children’s’ Environmental Health Translation Center.
  - [Nearly \\$5M grant to establish children’s environmental health research center at OSU](#)
- Media coverage of article “Associations between residential proximity to oil and gas extraction and hypertensive conditions during pregnancy: a difference-in-differences analysis in Texas”
  - [Living Closer to Oil and Gas Drilling Linked to Higher Risk of Pregnancy Complications, New Study Finds](#) DeSmog 1/11/2022
  - [In the Drill Zone, Children’s Health Is Looking Bleak](#) Texas Observer 6/15/2021
  - Interview for Nature Commentary on Climate Change impacts in the Pacific Northwest.
  - [How a dangerous stew of air pollution is choking the United States.](#)
- Interview with New York Times Article on Air Pollution Impacts on Cardiovascular Disease
  - [Air Pollution Takes a Global Toll on Heart Health.](#)
- Conducted over 30 media interviews during the 2020 wildfire season.
  - [Wildfires’ toxic air leaves damage long after smoke clears](#)
  - [As wildfires rage, climate experts warn: The future we were worried about is here](#)
  - [In Montana, Tracking Long-Term Health Effects of Wildfire Smoke](#)
  - [Long-term health effects of wildfire smoke unknown](#)
- 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
  - [Students respond to air quality concerns](#)
  - [OSU class measures air quality in Philomath](#)
- Research highlighted on NIH Director Francis Collins Research Blog.
  - [Creative Minds: Harnessing Technologies to Study Air Pollution’s 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:
  - [Air pollution kills 3.2 million people per year, who's doing something about it?](#)
  - [OSU researcher tracks health effects of air pollution around the world](#)
  - [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 4-11<sup>th</sup>, 2014. Examples include:
  - [Greener neighborhoods lead to better birth outcomes, new research shows](#)
  - [Yet Another Reason to Like Green Neighborhoods: They're Associated With Healthier Births](#)

## **E. HONORS AND AWARDS**

- College of Health, Unsung Hero Award (2024)
- National Institutes of Health (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)