

Ryan W. Allen, PhD

CONTACT INFORMATION

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PROFESSIONAL EXPERIENCE

Faculty of Health Sciences, Simon Fraser University

Burnaby, British Columbia

2012 – Present Associate Professor

2006 – 2012 Assistant Professor

School of Public Health, Mongolian National University of Medical Sciences

Ulaanbaatar, Mongolia

2014 – Present Visiting Professor

Department of Environmental & Occupational Health Sciences, University of Washington

Seattle, Washington

2004 – 2006 Post-doctoral Fellow

1999 – 2004 Research Assistant

EDUCATION

Department of Environmental & Occupational Health Sciences, University of Washington

Seattle, Washington

2000 – 2004 Doctor of Philosophy, Environmental and Occupational Hygiene

Department of Civil and Environmental Engineering, University of Washington

Seattle, Washington

1998 – 2000 Master of Science, Environmental Engineering

Department of Physics and Astronomy, Denison University

Granville, Ohio

1994 – 1998 Bachelor of Science, Physics

TEACHING

Awards

SFU Faculty of Health Sciences Outstanding Undergraduate Teaching Award, 2011 (Inaugural Recipient)

New Course Development

Note: I developed these courses de novo, including all lectures, assignments, assessments, etc.

HSCI 304: Perspectives on Environmental Health

HSCI 472: Environmental Justice

HSCI 471/850: Air Pollution and Human Health

HSCI 483: Senior Seminar in Environmental Health

HSCI 471/846: Environmental Health Exposure Assessment & Analysis

Teaching (Since 2010)

2018:	3 courses (HSCI 304 x 2, HSCI 471/846)
2017**:	2 courses (HSCI 304, HSCI 845)
2016**:	1 course (HSCI 471/846)
2015:	3 courses (HSCI 304 x 2, HSCI 471/850)
2014:	2 courses (HSCI 304 x 2)
2013*:	1 course (HSCI 304)
2012*:	2 courses (HSCI 304, HSCI 846)
2011:	3 courses (HSCI 304 x 2, HSCI 846)
2010:	2 courses (HSCI 304 x 2)

**On parental leave during the fall 2016 and spring 2017 semesters.

*On study leave during the fall 2012 and spring 2013 semesters.

Guest Lectures (Since 2010)

HSCI 130:	Foundations of Health Science (2010, 2013–2017)
HSCI 408/891:	Origins and Evolution of Public Health (2011, 2014–2015)
HSCI 472:	Children’s Environmental Health (2010–2013, 2015–2017)
HSCI 483:	Senior Seminar in Environmental Health (2010)
HSCI 845:	Occupational and Environmental Health (2010, 2011, 2013)

CURRENT STUDENT SUPERVISION AND COMMITTEE MEMBERSHIP

MSc/PhD Student Supervision

Enkhbat, Undarmaa. “A Randomized Air Filter Intervention Study of Prenatal Air Pollution Exposure and Social and Behavioral Impairments in Childhood: The UGAAR Study.” PhD student, Simon Fraser University, Faculty of Health Sciences.

Ulziikhuu, Battsetseg. “A Randomized Controlled Trial of Prenatal Air Pollution Exposure and Neurocognitive Development in Childhood: UGAAR Study.” PhD student, Simon Fraser University, Faculty of Health Sciences.

MSc/PhD Graduate Thesis Committee Membership

Branion-Calles, Michael. “Spatio-temporal Modelling of Cycling Risk in Metro Vancouver, British Columbia.” PhD student, Simon Fraser University, Faculty of Health Sciences.

Sierra Heredia, Cecilia. “Climate Change, Pollen, and the Development of Asthma.” PhD student, Simon Fraser University, Faculty of Health Sciences.

MPH Student Supervision

Brar, Avneet. Simon Fraser University, Faculty of Health Sciences.

Kanlic, Adriana. Simon Fraser University, Faculty of Health Sciences.

PREVIOUS STUDENT SUPERVISION AND COMMITTEE MEMBERSHIP

Graduate Student Supervision

- Barn, Prabjit. "A Randomized Air Filter Intervention Study of Air Pollution and Fetal Growth in a Highly Polluted Community." PhD dissertation, Simon Fraser University, Faculty of Health Sciences, defended October, 2018.
- Bartolomeu, Crista. "A Randomized Controlled Trial of Prenatal Air Pollution Exposure and the Development of Allergic Sensitization in Infancy." MSc thesis, Simon Fraser University, Faculty of Health Sciences, defended July, 2018.
- Yuchi, Weiran. "Modeling Fine Particulate Matter Concentrations inside the Homes of Pregnant Women in Ulaanbaatar, Mongolia." MSc thesis, Simon Fraser University, Faculty of Health Sciences, defended June, 2017.
- Kajbafzadeh, Majid. "Impacts of Traffic-Related and Woodsmoke Air Pollution on Endothelial Function and Systemic Inflammation." MSc thesis, The University of British Columbia, School of Population and Public Health (co-supervised with Dr. Michael Brauer), defended April, 2014.
- Curran, Jason. "An assessment of indoor house dust as a tool for estimating infiltration and indoor concentrations of traffic-generated pollution." MPH thesis, Simon Fraser University, Faculty of Health Sciences, defended January, 2011.

MPH Capstone Supervision

- Palad, Farshad. "Should Low-level Lead Exposure in the Canadian Population be a Primary Concern for Public Health? An Overview of Lead, Its Health Effects, Current Regulation and Recommendations." Simon Fraser University, Faculty of Health Sciences, completed April, 2017.
- Adams, Amanda. "Analysis of Mercury Exposure Factors and Related Health Effects in Two Surinamese Villages." Simon Fraser University, Faculty of Health Sciences, completed June, 2012.
- Schiller, Claire. "Stakeholder Identification for Concept Mapping; Older Adult Mobility and Built/Social Environments." Simon Fraser University, Faculty of Health Sciences, completed June, 2012.
- Ogieva, Osayimwense. "Early Exposure to Indoor Chlorinated Swimming Pools as a Risk Factor for Asthma in Children." Simon Fraser University, Faculty of Health Sciences, completed April, 2011.

Graduate Thesis Committee Membership

- Fenwick, Sean. "Development of an in vitro Dose-Response Method to Study the Effects of Multi-Compositional Ambient Particle Exposures." PhD dissertation, Simon Fraser University, Department of Chemistry, defended April, 2016.
- Ste-Marie, Nathalie. "Relationship between air pollution exposure and systemic inflammation in Canada." MSc thesis, Simon Fraser University, Faculty of Health Sciences, defended August, 2015.
- Sbihi, Hind. "Exposure Assessment in Birth Cohort Studies of Asthma and Allergy." PhD dissertation, The University of British Columbia, School of Population and Public Health, defended June, 2015.
- Shu, Huan. "Phthalate Exposure in a Canadian Birth Cohort at Three Months of Age: Exposure Sources and the Influence of Socioeconomic Status." MSc thesis, Simon Fraser University, Faculty of Health Sciences, defended April, 2012.
- Abernathy, Rebecca. "Modeling the Spatial Patterns of Ultrafine Particles in Vancouver, BC." MSc thesis, The University of British Columbia, School of Population and Public Health, defended March, 2012.
- Wang, Rongrong. "An Assessment of the Temporal Stability of a Land Use Regression Model in Vancouver, BC." MSc thesis, The University of British Columbia, School of Population and Public Health, defended October, 2011.

Graduate Thesis External Examiner/Reviewer

- Pagalan, Lief. "Prenatal Exposures to Air Pollution and Autism Spectrum Disorder: A Population-based Cohort Study in Metro Vancouver, BC." MSc thesis, Simon Fraser University, 2018.
- Clark, Sierra. "Adoption of a semi-gasifier cookstove intervention and its impact on air pollution and cardiovascular health in southwestern China." MSc thesis, McGill University, 2017.
- Erickson, Anders. "Person, Place and Context: The Interaction between the Social and Physical Environment on Adverse Pregnancy Outcomes in British Columbia." PhD dissertation, University of Victoria, 2016.
- Hoi, Gigi. "A Behavioral Ecology Approach to Trade-offs in Reproduction: Modelling Women's Reproductive Strategies and Empirical Studies of Post-partum Amenorrhea." MSc thesis, Simon Fraser University, 2016.
- Kinney, Jacqueline. "Suburban Walkability: Understanding the Role of Urban Design and Residential Preferences." Master of Urban Studies research project, Simon Fraser University, 2012.
- Allen, Janice. "Source Apportionment of Fine and Coarse Fraction Particulate Matter in Prince George and Kelowna, British Columbia." MSc thesis, University of Northern British Columbia, 2009.

Undergraduate Directed Research Supervision

- Yuchi, Weiran (Health Sciences): "Derivation of land use surrogates from remote sensing data for modelling spatial patterns of air pollution in Ulaanbaatar, Mongolia." Summer, 2015.
- Amram, Ofer (Geography): "Proximity of Public Schools to Major Roads in Large Canadian Cities." Spring, 2009.

CURRENT FUNDING

Grants (Peer Reviewed)

Randomized Interventions to Evaluate the Effects of Air Pollution Exposure on Children's Health and Development

Funding Source: Canadian Institutes of Health Research

Role: Principal Investigator

Total Direct Costs: \$720,536

Duration: 2015-2019

Prenatal Stress, Environmental Exposures, and Early Childhood Development

Funding Source: SFU Faculty of Health Sciences Child Health Faculty Award

(peer reviewed within the Faculty of Health Sciences)

Role: Principal Investigator

Total Direct Costs: \$15,000

Duration: 2017-2018

PREVIOUS FUNDING

Grants (Peer Reviewed)

A Randomized Air Filter Intervention Study of Air Pollution and Fetal Growth in a Highly Polluted Community

Funding Source: Canadian Institutes of Health Research

Role: Principal Investigator

Total Direct Costs: \$276,267

Duration: 2012-2015

The Canadian Healthy Infant Longitudinal Development (CHILD) Study

Funding Source: Canadian Institutes of Health Research

Role: Co-Investigator

Total Direct Costs: \$12,000,000

Duration: 2008-2015

Principal Investigator: Malcolm Sears (McMaster)

A Randomized Air Filter Intervention Study of Environmental Tobacco Smoke, Air Pollution and Fetal Growth

Funding Source: SFU Faculty of Health Sciences Child Health Faculty Award
(peer reviewed within the Faculty of Health Sciences)

Role: Principal Investigator

Total Direct Costs: \$15,000

Duration: 2013-2014

Subclinical Cardiovascular Health Benefits of Interventions to Reduce Exposure to Combustion- Derived Particulate Air Pollution

Funding Source: Canadian Institutes of Health Research

Role: Principal Investigator

Total Direct Costs: \$319,686

Duration: 2011-2014

Traffic-related Air Pollution as a Risk Factor for the Development of Childhood Asthma

Funding Source: AllerGen NCE (Allergy, Genes, and Environment Network)

Role: Co-Investigator

Total Direct Costs: \$516,563

Duration: 2009-2012

Principal Investigator: Michael Brauer (UBC)

Repeat Home Visits & Alternative Sampling Techniques in the Mini-CHILD Study

Funding Source: AllerGen NCE (Allergy, Genes, and Environment Network)

Role: Co-Investigator

Total Direct Costs: \$258,755

Duration: 2009-2011

Principal Investigator: Tim Takaro (SFU)

BC Team to Study the Origins of Asthma & Allergy

Funding Source: Michael Smith Foundation for Health Research

Role: Co-Investigator

Total Direct Costs: \$225,000

Duration: 2008-2011

Principal Investigator: Stuart Turvey (UBC)

Assessing the Impact of Wood Stove Interventions on Air Quality and Respiratory Health in British Columbia

Funding Source: British Columbia Lung Association

Role: Principal Investigator

Total Direct Costs: \$45,000

Duration: 2008-2010

Note: Applications to the BC Lung Association are reviewed in a national peer review process by the Canadian Lung Association. (see http://www.bc.lung.ca/association_and_services/research_grants.html)

Relationships between Early Allergen Exposure, Nitrogen Dioxide and ETS on Allergen Sensitization and Asthma in a High Risk Cohort

Funding Source: British Columbia Lung Association

Role: Co-Investigator

Total Direct Costs: \$22,500

Duration: 2008-2009

Principal Investigator: Chris Carlsten (UBC)

Transferability of Existing Land Use Regression Models

Funding Source: AllerGen NCE (Allergy, Genes, and Environment Network)

Role: Co-Principal Investigator

Total Direct Costs: \$79,705

Duration: 2007-2009

Co-Principal Investigator: Michael Brauer (UBC)

Grants (Not Peer Reviewed)

Characterization of PM_{2.5} Concentrations and Sources in Ulaanbaatar, Mongolia

Funding Source: British Columbia Environmental and Occupational Health Research Network

Role: Principal Investigator

Total Direct Costs: \$10,000

Duration: 2009-2010

Exposure Facility for Research in Cardiopulmonary Effects of Particle Exposure

Funding Source: British Columbia Environmental and Occupational Health Research Network

Role: Co-Investigator

Total Direct Costs: \$10,000

Duration: 2007-2008

Principal Investigator: Chris Carlsten (UBC)

Development of a Woodstove Exchange Program Evaluation Study

Funding Source: British Columbia Environmental and Occupational Health Research Network

Role: Principal Investigator

Total Direct Costs: \$10,000

Duration: 2007-2008

The Relationship between Traffic-Generated Air Pollution and Noise

Funding Source: Simon Fraser University President's Research Grant

Role: Principal Investigator

Total Direct Costs: \$10,000

Duration: 2006-2008

Contracts (Not Peer Reviewed)

A Land Use Regression Model of Ultrafine Particle Concentrations in Vancouver, BC

Funding Source: Health Canada

Role: Co-Investigator

Total Direct Costs: \$64,825

Duration: 2009-2011

Principal Investigator: Michael Brauer (UBC)

Modeling the Spatial Patterns of Volatile Organic Air Pollutants in Winnipeg, Manitoba

Funding Source: Health Canada

Role: Principal Investigator

Total Direct Costs: \$11,040

Duration: 2009-2010

An Assessment of the Impact of an Exchange Program using Improved Woodstove Technology on Air Quality in Northern British Columbia Homes

Funding Source: Health Canada

Role: Co-Principal Investigator

Total Direct Costs: \$124,157

Duration: 2008-2010

Co-Principal Investigator: Michael Brauer (UBC)

An Assessment of the Impact of Improved Woodstove Technology on Air Quality in British Columbia Homes

Funding Source: Health Canada

Role: Co-Principal Investigator

Total Direct Costs: \$136,530

Duration: 2007-2009

Co-Principal Investigator: Michael Brauer (UBC)

PUBLICATIONS

Published or In-Press Peer Reviewed Journal Articles

(*Trainee under my supervision)

48. Yuchi W*, Gombojav E, Boldbaatar B, Enkhmaa S, Naidan G, Beejin B, Galsuren J, Ochir C, Laagan B, Byambaa T, Barn PK, Henderson SB, Janes CR, Lanphear BP, McCandless LC, Takaro TK, Venners SA, Webster GA, and **Allen RW**. Evaluation of Random Forest Regression and Multiple Linear

Regression for Predicting Indoor Fine Particulate Matter Concentrations in a Highly Polluted City. *Environmental Pollution*, 2018, in press.

47. Miller KA, Spalt EW, Gasset AJ, Curl CL, Larson TV, Avol E, **Allen RW**, Vedal S, Szpiro AA, and Kaufman J. Estimating Ambient-origin PM_{2.5} Exposure for Epidemiology: Observations, Prediction, and Validation Using Personal Sampling in the Multi-Ethnic Study of Atherosclerosis. *Journal of Exposure Science & Environmental Epidemiology*, 2018, in press.
46. Barn P*, Gombojav E, Ochir C, Boldbaatar B, Beejin B, Naidan G, Galsuren J, Legtseg B, Byambaa T, Hutcheon JA, Janes CR, Janssen PA, Lanphear BP, McCandless LC, Takaro TK, Venner SA, Webster GA, and **Allen RW**. The Effect of Portable HEPA Filter Air Cleaner Use During Pregnancy on Fetal Growth: The UGAAR Randomized Controlled Trial. *Environment International*, 2018, 121, 981-989.
45. Lanphear BP, Rauch S, Auinger P, **Allen RW**, and Hornung RW. Low-level Lead Exposure and Mortality in U.S. Adults: The NHANES Mortality Follow-up Study. *Lancet Public Health*, 2018, 3, e177-184.
44. Yang Y, Tang R, Qiu H, Lai P-C, Wong P, Thach T-Q, **Allen R**, Brauer M, Tian L, and Barratt B. Long Term Exposure to Air Pollution and Mortality in an Elderly Cohort in Hong Kong. *Environment International*, 2018, 117, 99-106.
43. Tang R, Tian L, Thach T-Q, Tsui TH, Brauer M, Lee M, **Allen R**, Yuchi W, Lai P-C, Wong P, and Barratt B. Integrating Travel Behavior with Land Use Regression to Estimate Dynamic Air Pollution Exposure in Hong Kong. *Environment International*, 2018, 113, 100-108.
42. Barn P*, Gombojav E, Ochir C, Laagan B, Beejin B, Naidan G, Boldbaatar B, Galsuren J, Byambaa T, Janes C, Janssen PA, Lanphear BP, Takaro T, Venner SA, Webster GM, Yuchi W, Palmer CD, Parsons PJ, Roh YM, and **Allen RW**. The Effect of Portable HEPA Filter Air Cleaners on Indoor PM_{2.5} Concentrations and Second Hand Tobacco Smoke Exposure Among Pregnant Women in Ulaanbaatar, Mongolia: The UGAAR Randomized Controlled Trial. *Science of the Total Environment*, 2018, 615, 1379-1389.
41. Lee M, Brauer M, Wong P, Tang R, Tsui TH, Choi C, Cheng J, Lai PC, Tian L, Thach TQ, **Allen RW**, and Barratt B. Land Use Regression Modelling of Air Pollution in High-density High-rise Cities: A Case Study in Hong Kong. *Science of the Total Environment*, 2017, 592, 306-315.
40. Yuchi W*, Knudby A, Cowper J, Gombojav E, Amram O, Walker BB, and **Allen RW**. A Description of Methods for Deriving Air Pollution Land Use Regression Model Predictor Variables from Remote Sensing Data in Ulaanbaatar, Mongolia. *The Canadian Geographer*, 2016, 60, 333-345.
39. MacNeill M, Dobbin N, St-Jean M, Wallace L, Marro L, Shin T, You H, Kulka R, **Allen RW**, and Wheeler AJ. Can Changing the Timing of Outdoor Air Intake Reduce Indoor Concentrations of Traffic-related Pollutants in Schools? *Indoor Air*, 2016, 26, 687-701.
38. Spalt EW, Curl CL, **Allen RW**, Cohen M, Adar SD, Kinckley Stukovsky K, Avol E, Castro-Diehl C, Nunn C, Mancera-Cuevas K, and Kaufman JD. Time-Location Patterns of a Diverse Population of Older Adults: The Multi-Ethnic Study of Atherosclerosis and Air Pollution (MESA Air). *Journal of Exposure Science & Environmental Epidemiology*, 2016, 26, 349-355.
37. Spalt EW, Curl CL, **Allen RW**, Cohen M, Williams K, Hirsch JA, and Kaufman JD. Factors Influencing Time-location Patterns and their Impact on Estimates of Exposure: The Multi-Ethnic Study of Atherosclerosis and Air Pollution. *Journal of Exposure Science & Environmental Epidemiology*, 2016, 26, 341-348.
36. Takaro TK, Scott JA, **Allen RW**, Anand SA, Becker AB, Befus AD, Brauer M, Duncan J, Lefebvre DL, Lou W, Mandhane PJ, McLean KE, Miller G, Sbihi H, Shu H, Subbarao P, Turvey SE, Wheeler AJ, Zeng L, Sears MR, Brook JR. The Canadian Healthy Infant Longitudinal Development (CHILD)

- Birth Cohort Study: Assessment of Environmental Exposures. *Journal of Exposure Science & Environmental Epidemiology*, **2015**, 25, 580-592.
35. Sbihi H, **Allen RW**, Becker A, Brook JR, Mandhane P, Scott JA, Sears MR, Subbarao P, Takaro TK, Turvey SE, and Brauer M. Perinatal Exposure to Traffic-Related Air Pollution and Atopy at 1 Year of Age in a Multi-Center Canadian Birth Cohort Study. *Environmental Health Perspectives*, **2015**, 123, 902-908.
 34. Kajbafzadeh M*, Brauer M, Karlen B, Carlsten C, van Eeden S, and **Allen RW**. The Impacts of Traffic-Related and Woodsmoke Particulate Matter on Measures of Cardiovascular Health: A HEPA Filter Intervention Study. *Occupational and Environmental Medicine*, **2015**, 72, 394-400.
 33. Semmens EO, Noonan CW, **Allen RW**, Weiler EC, and Ward TJ. Indoor Particulate Matter in Rural Wood Stove Heated Homes. *Environmental Research*, **2015**, 138, 93-100.
 32. Crouse DL, Peters PA, Villeneuve PJ, Proux MO, Shin HH, Goldberg MS, Johnson M, Wheeler A, **Allen RW**, Atari DO, Jerrett M, Brauer M, Brook JR, Cakmak S, and Burnett RT. Within- and Between-City Contrasts in Nitrogen Dioxide and Mortality in 10 Canadian Cities; A Subset of the Canadian Census Health and Environment Cohort (CanCHEC). *Journal of Exposure Science & Environmental Epidemiology*, **2015**, 25, 482-489.
 31. Gan WQ, **Allen RW**, Brauer M, Davies HW, Mancini GBJ, and Lear SA. Long-Term Exposure to Traffic-Related Air Pollution and Progression of Carotid Artery Atherosclerosis: A Prospective Cohort Study. *BMJ Open*, **2014**, 4, e004743.
 30. Sbihi H, Brook JR, **Allen RW**, Curran JH, Dell S, Mandhane P, Subbarao P, Sears M, Turvey SE, Wheeler AJ, and Brauer M. A New Exposure Metric for Traffic-Related Air Pollution? An Analysis of Determinants of Hopanes in Settled Indoor House Dust. *Environmental Health*, **2013**, 12, 48.
 29. Abernethy RC, **Allen RW**, McKendry IG, and Brauer M. A Land Use Regression Model for Ultrafine Particles in Vancouver, Canada. *Environmental Science & Technology*, **2013**, 47, 5217-5225.
 28. Johnson JYM, Rowe BH, **Allen RW**, Peters PA, and Villeneuve P. A Case-Control Study of Medium-Term Exposure to Ambient Nitrogen Dioxide Pollution and Hospitalization for Stroke. *BMC Public Health*, **2013**, 13, 368.
 27. **Allen RW**, Gombojav E, Barkhasragchaa B, Byambaa T, Lkhasuren O, Amram O, Takaro TK, and Janes CR. An Assessment of Air Pollution and its Attributable Mortality in Ulaanbaatar, Mongolia. *Air Quality, Atmosphere & Health*, **2013**, 6, 137-150.
 26. Wang R, Henderson SB, Sbihi H, **Allen RW**, and Brauer M. Temporal Stability of Land Use Regression Models for Traffic-Related Air Pollution. *Atmospheric Environment*, **2013**, 64, 312-319.
 25. Konya T, Ewaze JO, Urch B, Shu H, Curran J, Speck M, **Allen R**, Brook J, Diamond M, Evans G, Takaro T, Wheeler A, and Scott JA. Development and Validation of the TefTex Electrostatic Wipe for Indoor Dust Sampling. *Healthy Buildings*, **2012**, 4H9, 1-5.
 24. Kaufman JD, Adar SD, **Allen RW**, Barr RG, Budoff M, Burke G, Casillas A, Cohen M, Curl C, Daviglius M, Diez Roux A, Jacobs D, Kronmal R, Larson T, Liu LJS, Lumley T, Navas-Acien A, O'Leary D, Rotter J, Sampson P, Sheppard L, Siscovick D, Stein J, Szpiro A, and Tracy R. Prospective Study of Particulate Air Pollution Exposures, Subclinical Atherosclerosis, and Clinical Cardiovascular Disease. The Multi-Ethnic Study of Atherosclerosis and Air Pollution (MESA Air). *American Journal of Epidemiology*, **2012**, 176, 825-837.
 23. MacNeill M, Wallace L, Kearney J, **Allen RW**, Van Ryswyk K, Judek S, Xu X, and Wheeler A. Factors Influencing Variability in the Infiltration of PM_{2.5} Mass and its Components. *Atmospheric Environment*, **2012**, 61, 518-532.

22. **Allen RW**, Adar SD, Avol E, Cohen M, Curl CL, Larson T, Liu L-J S, Sheppard L, and Kaufman J. Modeling the Residential Infiltration of Outdoor PM_{2.5} in the Multi-Ethnic Study of Atherosclerosis and Air Pollution (MESA Air). *Environmental Health Perspectives*, **2012**, 120, 824-830.
21. Amram O*, Abernethy R, Brauer M, Davies H, and **Allen RW**. Proximity of Public Elementary Schools to Major Roads in Canadian Urban Areas. *International Journal of Health Geographics*, **2011**, 10, 68.
20. Mercer LD, Szpiro AA, Sheppard L, Lindstrom J, Adar SD, **Allen RW**, Avol E, Oron AP, Larson T, Liu LJ-S, Kaufman JD. Comparing Universal Kriging and Land-use Regression for Predicting Concentrations of Gaseous Oxides of Nitrogen (NO_x) for the Multi-Ethnic Study of Atherosclerosis and Air Pollution (MESA Air). *Atmospheric Environment*, **2011**, 45, 4412-4420.
19. **Allen RW**, Carlsten C, Karlen B, Leckie S, van Eeden S, Vedal S, Wong I, and Brauer M. An Air Filter Intervention Study of Endothelial Function Among Healthy Adults in a Woodsmoke-Impacted Community. *American Journal of Respiratory and Critical Care Medicine*, **2011**, 183, 1222-1230.
18. Gill EA, Curl CL, Adar SD, **Allen RW**, Auchincloss AH, O'Neill MS, Park SK, Van Hee VC, Diez Roux AV, and Kaufman JD. Air Pollution and Cardiovascular Disease in the Multi-Ethnic Study of Atherosclerosis. *Progress in Cardiovascular Diseases*, **2011**, 53, 353-360.
17. Giles L, Barn P, Kunzli N, Romieu I, Mittleman MA, van Eeden S, **Allen R**, Carlsten C, Stieb D, Noonan C, Smargiassi A, Kaufman JD, Shakoor H, Kosatsky T, and Brauer M. From Good Intentions to Proven Interventions: Effectiveness of Actions to Reduce the Health Impacts of Air Pollution. *Environmental Health Perspectives*, **2011**, 119, 29-36.
16. **Allen RW**, Amram O, Wheeler AJ, and Brauer M. The Transferability of NO and NO₂ Land Use Regression Models Between Cities and Pollutants. *Atmospheric Environment*, **2011**, 45, 369-378.
15. Clark NA, **Allen RW**, Hystad P, Wallace L, Dabek E, and Wheeler A. Exploring Variation and Predictors of Residential PM_{2.5} Infiltration. *International Journal of Environmental Research and Public Health*, **2010**, 7, 3211-3224.
14. **Allen RW**, Leckie S, Millar G, and Brauer M. The Impact of Wood Stove Technology Upgrades on Indoor Residential Air Quality. *Atmospheric Environment*, **2009**, 43, 5908-5915.
13. Hystad PU, Setton EM, **Allen RW**, Keller PC, and Brauer M. Modeling Residential Fine Particulate Matter Infiltration for Exposure Assessment. *Journal of Exposure Science & Environmental Epidemiology*, **2009**, 19, 570-579.
12. Cohen MA, Adar SD, **Allen RW**, Avol E, Curl CL, Gould T, Hardie D, Ho A, Kinney P, Larson TV, Sampson P, Sheppard L, Stukovsky KD, Swan SS, Liu L-JS, and Kaufman JD. Approach to Estimating Participant Pollutant Exposures in the Multi-Ethnic Study of Atherosclerosis and Air Pollution (MESA Air). *Environmental Science & Technology*, **2009**, 43, 4687-4693.
11. **Allen RW**, Davies H, Cohen MA, Mallach G, Kaufman JD, and Adar SD. The Spatial Relationship between Traffic-Generated Air Pollution and Noise in 2 U.S. Cities. *Environmental Research*, **2009**, 109, 334-342.
10. **Allen RW**, Criqui MH, Diez Roux AV, Allison M, Shea S, Detrano R, Sheppard L, Wong N, Hinckley Stukovsky K, and Kaufman JD. Fine Particulate Matter Air Pollution, Proximity to Traffic, and Aortic Atherosclerosis. *Epidemiology*, **2009**, 20, 254-264.
9. Poplawski K, Gould T, Setton E, **Allen R**, Su J, Larson T, Henderson S, Brauer M, Hystad P, Lightowers C, Keller P, Cohen M, Silva C, and Buzzelli M. Intercity Transferability of Land Use Regression Models for Estimating Ambient Concentrations of Nitrogen Dioxide. *Journal of Exposure Science & Environmental Epidemiology*, **2009**, 19, 107-117.

8. **Allen RW**, Mar T, Koenig J, Liu S, Gould T, Simpson C, and Larson T. Changes in Lung Function and Airway Inflammation Among Asthmatic Children Residing in a Woodsmoke-Impacted Urban Area. *Inhalation Toxicology*, **2008**, 20, 423-433.
7. **Allen R**, Wallace L, Sheppard L, Larson T, and Liu L-JS. Evaluation of the Recursive Model Approach for Estimating Residential Particle Infiltration Efficiencies from Light Scattering Data. *Journal of Exposure Science & Environmental Epidemiology*, **2007**, 17, 468-477.
6. Polidori A, Arhami M, Delfino RJ, Sioutas C, **Allen R**. Indoor/Outdoor Relationships, Trends and Carbonaceous Content of Fine Particulate Matter in Retirement Homes of the Los Angeles Basin. *Journal of the Air & Waste Management Association*, **2007**, 57, 366-379.
5. Wu CF, Delfino RJ, Floro JN, Quintana P, Samimi BS, Kleinman MT, **Allen RW**, and Liu L-JS. Exposure Assessment and Modeling of Particulate Matter for Asthmatic Children Using Personal Nephelometers. *Atmospheric Environment*, **2005**, 39, 3457-3469.
4. Koenig JQ, Mar TF, **Allen RW**, Jansen K, Lumley T, Sullivan JH, Trenga CA, Larson TV, and Liu L-JS. Pulmonary Effects of Indoor- and Outdoor-Generated Particles in Children with Asthma. *Environmental Health Perspectives*, **2005**, 113, 499-503.
3. **Allen R**, Wallace L, Larson T, Sheppard L, and Liu L-JS. Estimated Hourly Personal Exposures to Ambient and Nonambient Particulate Matter Among Susceptible Populations in Seattle, Washington. *Journal of the Air & Waste Management Association*. **2004**, 54, 1197-1211.
2. **Allen R**, Larson T, Sheppard L, Wallace L, and Liu L-JS. Use of Real-Time Light Scattering Data to Estimate the Contribution of Infiltrated and Indoor-Generated Particles to Indoor Air. *Environmental Science & Technology*. **2003**, 37, 3484-3492.
1. **Allen R**, Box M, Larson T, and Liu L-JS. A Cost-Effective Weighing Chamber for Particulate Matter Filters. *Journal of the Air & Waste Management Association*. **2001**, 51, 1651-1653.

Commentaries (Commissioned and Externally Peer Reviewed)

1. **Allen RW**, Barn PK, and Lanphear BP. Randomized Controlled Trials in Environmental Health Research: Unethical or Underutilized? *PLOS Medicine*, **2015**, 12(1), e1001775.

Commentaries (Commissioned and Reviewed by Editorial Board)

1. **Allen RW** and Adar SD. Are both air pollution and noise driving adverse cardiovascular health effects from motor vehicles? *Environmental Research*, **2011**, 111, 184-185.

Commentaries (Externally Peer Reviewed)

1. Barn PK, Elliott CT, **Allen RW**, Kosatsky T, Rideout K, and Henderson SB. Portable air cleaners should be at the forefront of the public health response to landscape fire smoke. *Environmental Health*, **2016**, 15: 116.

Peer Reviewed Book Chapters

1. Setton EM, **Allen R**, Hystad P, and Keller PC. Outdoor Air Pollution and Health – A Review of the Contributions of Geotechnologies to Exposure Assessment. In *Geospatial Analysis of Environmental Health*; Maantay J, McLafferty S, Eds.; Geotechnologies and the Environment Series, Springer: New York, 2011.

CONFERENCE PRESENTATIONS

Oral Presentations (Peer Reviewed Abstracts)

(*Trainee under my supervision)

36. Sierra-Heredia C, Allen R, Henderson SB, Coates F, Brubacher J, North M, Sbihi H, Brauer M, Sears M, Brook J, Scott J, Lefebvre D, Subbarao P, Becker A, Mandhane P, Turvey S, Takaro TK. "Pollen Counts in Four Canadian Cities: Geographical Variation between 2008 and 2012." Joint International Society of Exposure Science/International Society for Environmental Epidemiology conference, August 2018, Ottawa, ON.
35. Barratt B, Tang R, Lee M, Wong P, **Allen R**, Lai P-C, Tian L, Thach TQ, Brauer M. "Estimating Human Exposure to Air Pollution in High Rise Cities: The Hong Kong D3D Study." Joint International Society of Exposure Science/International Society for Environmental Epidemiology conference, August 2018, Ottawa, ON.
34. Yuchi W*, Gombojav E, Ochir C, Laagan B, Beejin B, Naidan G, Boldbaatar B, Galsuren J, Byambaa T, Barn P, Henderson SB, Janes C, Lanphear B, McCandless L, Takaro TK, Venners S, Webster G, **Allen RW**. "Predicting Indoor Fine Particulate Matter in the Apartments of Pregnant Women in Ulaanbaatar, Mongolia." Joint International Society of Exposure Science/International Society for Environmental Epidemiology conference, August 2018, Ottawa, ON.
33. Bartolomeu CL*, Gombojav E, Boldbaatar B, Gerel N, Ochir C, Byambaa T, Barn PK, Lanphear B, Takaro T, Venners SA, Webster GM, Yuchi W, and **Allen RW**. "Prenatal Air Pollution Exposure and the Development of Allergic Sensitization in Early Life: A Randomized Controlled Trial." International Society of Exposure Science conference, October 2017, Research Triangle Park, NC.
32. Gombojav E, Barn PK, Laagan B, Beejin B, Blogbaatar B, Galsuren J, Baasansuren B, Khurelbaata AO, Byambaa T, Janes C, Lanphear BP, Roh YM, Takaro T, Venners SA, Webster GM, Palmer CD, Parsons PJ, and **Allen RW**. "The UGAAR Randomized Controlled Trial of HEPA Filter Air Cleaner Use and Residential Fine Particulate Matter in Ulaanbaatar, Mongolia." International Society of Exposure Science conference, October 2016, Utrecht, Netherlands.
31. Barn PK*, Gombojav E, Ochir C, Laagan B, Beejin B, Boldbaatar B, Galsuren J, Baasansuren B, Khurelbaata A, Byambaa T, Janes C, Lanphear BP, Roh Y, Takaro T, Venners SA, Webster GM, Parsons P, and **Allen RW**. "Portable HEPA Filter Air Cleaner Use and Residential Indoor Fine Particulate Matter Concentrations in Ulaanbaatar, Mongolia." International Society of Exposure Science conference, October 2015, Henderson, NV.
30. Crouse D, Peters PA, Villeneuve PJ, Proux MO, Shin H, Goldberg MS, Johnson M, Wheeler A, **Allen RW**, Atari DO, Jerrett M, Brauer M, Brook JR, and Burnett RT. "Within- and Between-City Contrasts in Nitrogen Dioxide and Mortality in 10 Canadian Cities." 9th International Conference on Air Quality, March 2014, Garmisch-Partenkirchen, Germany.
29. Kaufman JD, Adar SD, **Allen RW**, Barr RG, Budoff MJ, Casillas AM, Cohen MA, Curl CL, Daviglius ML, Diez-Roux AV, Jacobs DR, Kronmal RA, Larson TV, Liu L-J S, Lumley T, Navas-Acien A, O'Leary DH, Rotter JI, Sampson PD, Sheppard L, Siscovick DS, Stein JH, Szpiro AA, Tracy RP. "A Prospective Study of Atherosclerosis, Clinical Cardiovascular Disease, and Long-Term Exposure to Ambient Particulate Matter and Other Air Pollutants in a Multi-Ethnic Cohort (MESA Air)." International Society for Environmental Epidemiology conference, August 2014, Seattle, WA.
28. Kajbafzadeh M*, Brauer M, Carlsten C, Karlen B, van Eeden S, and **Allen RW**. "Impacts of Traffic-Related and Woodsmoke Air Pollution on Endothelial Function and Systemic Inflammation." Joint

International Society of Exposure Science/International Society for Environmental Epidemiology conference, August 2013, Basel, Switzerland.

27. Lanphear B, Rauch S, **Allen RW**, and Hornung R. "Blood Lead Concentrations and Cardiovascular Mortality in the United States: The NHANES Mortality Follow-up Cohort Study." Joint International Society of Exposure Science/International Society for Environmental Epidemiology conference, August 2013, Basel, Switzerland.
26. Takaro TK, Shu H, **Allen RW**, Brook J, McLean K, Scott J, Brauer M, Wheeler A, Lefebvre D, Sathyanarayana S, Sears MR. "Early life exposure to phthalates and immune response at one year of age in the Canadian Healthy Infant Longitudinal Development (CHILD) birth cohort." Joint International Society of Exposure Science/International Society for Environmental Epidemiology conference, August 2013, Basel, Switzerland.
25. Shu H, **Allen RW**, Becker A, Bornehag CG, Brauer M, Brook J, Lanphear B, Mandhane P, Sathyanarayana S, Scott J, Sears M, Subbarao PJ, Turvey S, Zeng L, Takaro T. "Phthalate Exposure in a Canadian Birth Cohort at Three Months of Age: Exposure Sources and the Influence of Socioeconomic Status." Joint International Society of Exposure Science/International Society for Environmental Epidemiology conference, August 2013, Basel, Switzerland.
24. Kajbafzadeh M*, Brauer M, Carlsten C, Karlen B, van Eeden S, and **Allen RW**. "A HEPA Filter Intervention Study to Assess the Impacts of Woodsmoke and Traffic-Related PM on Subclinical Measures of Cardiovascular Health." American Thoracic Society Conference, May 2013, Philadelphia, PA.
23. Curl C, Adar SD, **Allen R**, and Kaufman J. "Transitioning from Concentration to Exposure: Incorporating Individual-Level Time-Location Information into Air Pollution Exposure Predictions." International Society of Exposure Science conference, October 2012, Seattle, WA.
22. Adar SD, Diez-Roux A, Oron A, Kaufman J, and **Allen R**. "Modeled Air Pollution, Modeled Noise, and Perceived Noise in the Multi-Ethnic Study of Atherosclerosis (MESA)." International Society of Exposure Science conference, October 2012, Seattle, WA.
21. **Allen R**, Adar SD, Avol E, Cohen M, Curl C, Larson T, Liu L-JS, Sheppard L, and Kaufman J. "Modeling the Infiltration of Outdoor PM_{2.5} into Residences in MESA Air." International Society of Exposure Science conference, October 2012, Seattle, WA.
20. Takaro T, **Allen R**, Brook JR, Scott J, Brauer M, Sears M, and Wheeler AJ. "Exposure Assessment Methods for the Canadian Healthy Infant Longitudinal Development (CHILD) Birth Cohort." International Society of Exposure Science conference, October 2011, Baltimore, MD.
19. Abernethy R, **Allen R**, and Brauer M. "Developing a Land Use Regression Model for Ultrafine Particle Concentrations in Vancouver, Canada." International Society for Environmental Epidemiology conference, September 2011, Barcelona, Spain.
18. Wheeler AJ, Gibson M, Ward TJ, **Allen RW**, Guernsey J, Seaboyer M, Kuchta J, Gould R, and Stieb D. "Reductions in Residential Woodsmoke Concentrations and Infiltration Efficiencies Using Electrostatic Air Cleaner Interventions." 12th International Conference on Indoor Air Quality and Climate, June, 2011, Austin, TX.
17. Millar G, Jackson P, Brauer M, and **Allen R**. "The Spatial Distribution of Residential Wood Smoke: Evaluating Five Communities in Central British Columbia." 15th International Union of Air Pollution Prevention and Environmental Protection Association's World Clean Air Congress, September 2010, Vancouver, BC.
16. **Allen R**, Gombojav E, Barkhasragcha B, Lkhasuren O, Amram O, and Janes C. "Characterization of Wintertime Air Pollution Concentrations and Variability in Ulaanbaatar, Mongolia." Joint

International Society of Exposure Science/International Society for Environmental Epidemiology conference, August 2010, Seoul, South Korea.

15. **Allen R**, Adar S, Cohen M, Curl C, Larson T, Liu L-JS, Sheppard L, and Kaufman J. "Modeling The Infiltration Of Outdoor PM_{2.5} Into Residences In The Multi-Ethnic Study Of Atherosclerosis And Air Pollution (MESA Air)." International Society of Exposure Science conference, November 2009, Minneapolis, MN.
14. **Allen R**, Aspinall T, Carlsten C, Karlen B, Leckie S, Mattson A, van Eeden S, Vedal S, and Brauer M. "The Impact of Portable Air Filters on Indoor Air Pollution and Microvascular Function in a Woodsmoke-Impacted Community." International Society for Environmental Epidemiology conference, August 2009, Dublin, Ireland.
13. Takaro T, **Allen R**, Rousseau R, Brauer M, Scott J, Brook J, and Turvey S. "Potential Sources of Phthalate Exposure in a Vancouver, BC Birth Cohort at Three Months of Age." International Society for Environmental Epidemiology conference, August 2009, Dublin, Ireland.
12. **Allen R**, Leckie S, Millar G, Jackson P, and Brauer M. "The Impact of Woodstove Technology Upgrades on Air Quality in British Columbia Homes." International Society of Exposure Analysis/International Society for Environmental Epidemiology conference, October 2008, Pasadena, CA.
11. Millar GM, Brauer M, Jackson PL, **Allen R**, and Leckie S. "The Skeena-Bulkley Valley Lakes District Woodstove Exchange Study (WEST): Mapping residential woodsmoke." Joint International Society of Exposure Analysis/International Society for Environmental Epidemiology conference, October 2008, Pasadena, CA.
10. Adar SD, Davies H, Spziro A, and **Allen RW**. "Predicting the Spatial Variation in Community Noise Levels." International Society of Exposure Analysis conference, October 2007, Research Triangle Park, NC.
9. **Allen RW**, Mallach G, Davies H, Cohen M, Kaufman J, and Adar SD. "The Relationship Between Traffic-Generated Air Pollution and Noise in 2 U.S. Cities." International Society of Exposure Analysis conference, October 2007, Research Triangle Park, NC.
8. **Allen R**, Avol E, Cohen M, Kinney P, Larson T, Liu S, Sampson P, Sheppard L, Swan S, and Kaufman J. "Estimation of Exposure to Ambient-Generated PM in the 'MESA Air' Prospective Cohort Study." International Society of Exposure Analysis conference, November 2005, Tucson, AZ.
7. **Allen R**, Jansen K, Koenig J, Larson T, Liu S, Lumley T, Mar T, Shepherd K, Sullivan J, and Trenga C. "An example of the use of ambient and nonambient PM exposure estimates: Associations between exposure and pulmonary health indicators among children with asthma." International Society of Exposure Analysis conference, October 2004, Philadelphia, PA.
6. **Allen R**, Covert D, Larson T, and Liu L-JS. "Indoor-Outdoor Relationships of Accumulation Mode Particles at Five Residences in Seattle." American Association for Aerosol Research conference, October 2004, Atlanta GA.
5. **Allen R**, Larson T, Wallace L, and Liu L-JS. "The estimated contribution of indoor- and outdoor-generated particles to personal PM exposure." International Society of Exposure Analysis conference, September 2003, Stresa, Italy. (presented by Dr. Liu)
4. **Allen R**, Larson T, and Liu L-JS. "Estimating the outdoor and indoor contribution to personal particulate matter exposures." Air & Waste Management Association conference, June 2003, San Diego, CA.

3. Liu L-JS, Larson T, **Allen R**, Wu CF, and Sheppard L. "Estimating outdoor and indoor contributions to personal particulate exposures." 4th Colloquium on PM and Human Health, April 2003, Pittsburgh, PA.
2. **Allen R**, Larson T, and Liu L-JS. "The use of light-scattering data to estimate the contribution of indoor- and outdoor-generated particles to indoor air." 9th International Conference on Indoor Air Quality and Climate, July 2002, Monterey, CA.
1. **Allen R**, Larson T, and Liu L-JS. "Estimating ambient and indoor contributions to personal PM exposure." International Society of Exposure Analysis conference, November 2001, Charleston, SC.

Poster Presentations (Peer Reviewed Abstracts)

(*Trainee under my supervision)

27. Barratt B, Choi C, Lee M, Wong P, Tsui A, Cheng J, Lai PC, Wong CM, Thach TQ, **Allen R**, and Brauer M. "The Hong Kong D3D Study: A Dynamic Three-Dimensional Exposure Model for Hong Kong." International Society of Exposure Science conference, October 2015, Las Vegas, NV.
26. Barn PK*, Gombojav E, Beejin B, Boldbaatar B, Galsuren J, Byambaa T, Janes CR, Janssen PA, Lanphear BP, Roh YM, Takaro T, Venners SA, Webster G, and **Allen RW**. "Preliminary Results from the Ulaanbaatar Gestation and Air Pollution Research (UGAAR) Study." International Society for Environmental Epidemiology conference, August 2014, Seattle, Washington.
25. **Allen RW**, Yuchi W, Millar G, Karlen B, Leckie S, and Brauer M. "Air Quality Impacts of a Wood Stove Exchange Program in British Columbia, Canada." International Society for Environmental Epidemiology conference, August 2014, Seattle, Washington.
24. Gombojav E, Sarangerel Enkhmaa, Mendbayar M, Ganbold J, Ankhzul B, Amar A, Damiran N, and **Allen RW**. "Mobile Monitoring of PM_{2.5} Spatial Variation in Ulaanbaatar, Mongolia." International Society for Environmental Epidemiology conference, August 2014, Seattle, Washington.
23. Takaro TK, McLean K, Brook J, **Allen R**, Scott J, Turvey S, Becker A, Mandhane P, Subbarao P, Sears M. "Environmental Exposures and Wheeze at Three and Twelve Months of Age in the Canadian Healthy Infant Longitudinal Development Study (CHILD)." International Society for Environmental Epidemiology conference, August 2014, Seattle, Washington.
22. Sbihi H, **Allen RW**, Becker A, Lefebvre D, Mandhane P, Sears MR, Subbarao P, Turvey SE, Brauer M. "Atopy at Age 1 and Traffic-Related Air Pollution: An Investigation of Exposure Measures in the Canadian Health Infant Longitudinal Development (CHILD) Birth Cohort." Joint International Society of Exposure Science/International Society for Environmental Epidemiology conference, August 2013, Basel, Switzerland.
21. Takaro TK, Stanojevic S, McLean K, Shu H, Brook J, **Allen R**, Scott J, and Subbarao P. "Environmental Exposures and Exhaled Nitric Oxide at Three Months of Age." American Thoracic Society conference, May 2012, San Francisco, CA.
20. Shu H, Zeng LL, **Allen R**, Brauer M, Turvey S, and Takaro T. "Potential Sources of Phthalate Exposure in the CHILD Study at Three Months of Age." International Society of Exposure Science conference, October 2011, Baltimore, MD.
19. Sbihi H, **Allen R**, Brook J, Curran J, Dell S, Grgicak A, Wheeler A, and Brauer M. "Hopanes in Settled Dust: A Novel Method to Assess Exposure to Traffic-related Air Pollution." International Society of Exposure Science conference, October 2011, Baltimore, MD.
18. Roh YM*, Wheeler AJ, and **Allen R**. "Modeling the Spatial Patterns of Volatile Organic Air Pollutants in Winnipeg, Manitoba." International Society of Exposure Science conference, October 2011, Baltimore, MD.

17. Brauer M, Wang R, Henderson S, and **Allen R**. "Assessment of the Temporal Stability of Land Use Regression Models for Traffic-Related Air Pollution." International Society for Environmental Epidemiology conference, September 2011, Barcelona, Spain.
16. **Allen RW**, Carlsten C, Karlen B, Leckie S, van Eeden S, Vedal S, and Brauer M. "The Impact of Portable Air Filters on Indoor Air Pollution and Cardiovascular Health Among Healthy Adults in a Woodsmoke-Impacted Community." Joint International Society of Exposure Science/International Society for Environmental Epidemiology conference, August 2010, Seoul, South Korea.
15. Johnson JM, **Allen R**, Rowe BH, and Villeneuve PJ. "A Case-Control Study of Ambient NO₂ and Hemorrhagic Stroke in Edmonton, Canada." Joint International Society of Exposure Science/International Society for Environmental Epidemiology conference, August 2010, Seoul, South Korea.
14. Clark N, Wheeler A, **Allen R**, Hystad P, Stieb D, Evans G, You H, and Dell S. "Infiltration of PM_{2.5} into Homes in Toronto, Canada: Can commonly available housing characteristics be used to improve exposure estimates?" International Society for Environmental Epidemiology conference, August 2009, Dublin, Ireland.
13. Curl CL, Adar SD, Cohen MA, Stukovsky KH, **Allen R**, Mancera-Cuevas K, Nunn C, Castro C, Christman C, and Kaufman JD. "An Evaluation of Time-Location Data: The Multi-Ethnic Study of Atherosclerosis and Air Pollution (MESA Air)." Joint International Society of Exposure Analysis/International Society for Environmental Epidemiology conference, October 2008, Pasadena, CA.
12. **Allen R**, Amram O, Henderson S, and Brauer M. "Transferability of Land Use Regression Models between Canadian Cities." Joint International Society of Exposure Analysis/International Society for Environmental Epidemiology conference, October 2008, Pasadena, CA.
11. Millar GM, Jackson PL, Brauer M, **Allen R**, and Leckie S. "The Woodstove Exchange STudy (WEST): Mapping the spatial variability of residential wood smoke." Canadian Meteorological and Oceanographical Society Congress, May 2008, Kelowna, BC.
10. Wheeler AJ, **Allen R**, Kearney J, Smith-Doiron M, Xu X, You H, Van Ryswyk K, Rasmussen PE, and Brook JR. "Factors Influencing the Infiltration of PM_{2.5} Mass and its Components in Windsor, Ontario Residences." International Society of Exposure Analysis conference, October 2007, Research Triangle Park, NC.
9. **Allen R**, Allison M, Criqui M, Detrano R, Diez-Rouze A, Stukovsky K, Shea S, Sheppard L, Wong N, and Kaufman J. "Fine Particulate Air Pollution, Proximity to Traffic, and Aortic Atherosclerosis." International Society for Environmental Epidemiology conference, September 2007, Mexico City, Mexico.
8. Hystad P, Setton E, Keller P, **Allen R**, Cloutier-Fisher D, Foster L, and Brauer M. "Predicting Ambient PM_{2.5} Infiltration For Individual Residences at a Regional Scale." International Society of Exposure Analysis/International Society for Environmental Epidemiology conference, September 2006, Paris, France.
7. Wheeler A, **Allen R**, Smith-Doiron M, Xu X, Rasmussen P, Brook J, and Kearney J. "Estimating the Contribution of Ambient Particulate Matter to Indoor Residential Air Using Continuous Monitors: A Canadian Perspective." Joint International Society of Exposure Analysis/International Society for Environmental Epidemiology conference, September 2006, Paris, France.
6. Jansen KL, **Allen RW**, Koenig JQ, Mar TF, Larson TV, and Lippmann M. "Association Between Exhaled NO and Daily Personal Exposure to Ambient PM_{2.5} in Adult Subjects with Respiratory Disease." American Thoracic Society conference, May 2006, San Diego, CA.

5. Trenga C, Schildcrout J, Sullivan J, Goldman B, Allen R, Kaufman J, Sheppard L, Liu L-JS, Shapiro G, and Koenig J. "Fine particulate (PM_{2.5}) air pollution exposure and pulmonary function in children with asthma." American Thoracic Society conference, May 2003, Seattle, WA.
4. Allen R, Larson T, and Liu L-JS. "Estimated hourly exposure to indoor- and outdoor-generated particles among sensitive populations in Seattle." 4th Colloquium on PM and Human Health, April 2003, Pittsburgh, PA.
3. Larson T, Liu L-JS, Kim E, Allen R, Lewtas J, and Wallace L. "Indoor-outdoor relationships of selected fine particle trace elements in Seattle, WA." Joint International Society of Exposure Analysis/International Society for Environmental Epidemiology conference, August 2002, Vancouver, BC.
2. Wu CF, Delfino R, Floro J, Allen R, and Liu L-JS. "The use of light scattering data to estimate the contribution of indoor- and outdoor- generated particles to indoor and personal air." Joint International Society of Exposure Analysis/International Society for Environmental Epidemiology conference, August 2002, Vancouver, BC.
1. Larson T, Allen R, and Liu L-JS. "Indoor and outdoor contributions to indoor light scattering coefficient at 30 residences in Seattle, WA." American Association for Aerosol Research conference, October 2001, Portland, OR.

Oral Presentations (Abstracts Not Peer Reviewed)

(*Trainee under my supervision)

12. Wang R, Henderson S, Allen R, and Brauer M. "Assessment of the temporal stability of land use regression models for traffic-related air pollution." Pacific Northwest International Section of the Air & Waste Management Association conference, November 2010, Missoula, MT.
11. Abernethy R, McKendry I, Allen R, and Brauer M. "Measuring and characterizing factors affecting concentrations of ultrafine particles in Metro Vancouver, British Columbia." Pacific Northwest International Section of the Air & Waste Management Association conference, November 2010, Missoula, MT.
10. Curran J*, Brook J, Takaro T, Wheeler A, Jiang Z, Grgicak-Mannion A, Speck M, and Allen R. "An assessment of hopanes in settled dust and air as indicators of exposure to traffic-related air pollution in Windsor, Ontario." Pacific Northwest International Section of the Air & Waste Management Association conference, November 2010, Missoula, MT.
9. Allen RW and Brauer M. "Land use regression models for assessment of long-term NO₂ exposure: model development." AllerGen NCE (Allergy, Genes, and Environment Network) conference, February 2010, Quebec, QC.
8. Allen RW, Mar T, Koenig J, Liu S, Gould T, Simpson C, and Larson T. "Changes in Lung Function and Airway Inflammation Among Asthmatic Children Residing in a Woodsmoke-Impacted Urban Area." EPA Region 10 Air Toxics Summit, August 2008, Boise, ID.
7. Hystad P, Keller P, Allen R, Setton E, and Brauer M. "Modeling Residential Fine Particulate Matter Infiltration for Exposure Assessment." BC Lung Association Air Quality and Health Workshop, March 2008, Vancouver, BC.
6. Millar G, Brauer M, Allen R, Jackson P, and Leckie S. "Skeena-Bulkley Valley Lakes District Woodstove Exchange Study (WEST)." BC Lung Association Air Quality and Health Workshop, March 2008, Vancouver, BC.

5. **Allen R**, Millar G, Leckie S, Jackson P, and Brauer M. "Evaluating the Exposure and Health Impacts of a Woodstove Changeout Program in British Columbia." International Biomass Smoke Health Effects Conference, August 2007, Missoula, MT.
4. **Allen R**, Mar T, Larson T, Gould T, Liu S, and Koenig J. "Personal Exposure to Ambient and Nonambient PM and Respiratory Health Among Children with Asthma." Pacific Northwest International Section of the Air & Waste Management Association conference, November 2006, Victoria, BC.
3. Silva C, Gould T, Larson T, Henderson S, **Allen R**, Cohen M, and Buzzelli M. "A tale of two cities: comparing land use & traffic related pollution exposure models in Seattle and Vancouver." Fourth Canadian Workshop on Air Quality, February 2006, Banff, AB.
2. Silva C, Gould T, Buzzelli M, Larson T, Henderson S, **Allen R**, and Cohen M. "Assessing Traffic-Related Pollution Exposure with Land Use Regression & GIS: A Seattle Case Study." Pacific Northwest International Section of the Air & Waste Management Association conference, November 2005, Blaine, WA.
1. **Allen R**, Larson T, Wallace L, and Liu L-JS. "The use of light-scattering data to estimate the contribution of indoor- and outdoor-generated particles to indoor and personal air." Pacific Northwest International Section of the Air & Waste Management Association conference, November 2002, Tacoma, WA.

Poster Presentations (Abstracts Not Peer Reviewed)

(*Trainee under my supervision)

5. Wang R, Henderson S, **Allen R**, and Brauer M. "Mapping Community Air Pollution: Extending Land Use Regression in Time." American Industrial Hygiene Conference (AIHce), May, 2011, Portland, OR.
4. Curran J*, Brook J, Takaro T, Wheeler A, Zhimei J, Grgicak-Mannion A, Speck M, and **Allen R**. "An Assessment of Hopanes in Settled House Dust as Indicators of Exposure to Traffic-Related Air Pollution in Windsor, Ontario." AllerGen, NCE Research conference, February, 2011, Vancouver, BC.
3. Sbihi H, **Allen R**, Takaro T, Brook J, and Brauer M. "Estimating the Variability of Endotoxin, (1,3)- β -D-Glucan, and Hopanes in Repeated Samples of Settled House Dust." AllerGen, NCE Research conference, February, 2011, Vancouver, BC.
2. Shu H, Takaro T, **Allen R**, Brauer M, Rousseau R, and Turvey S. "Potential Sources of Phthalate Exposure in the Vancouver CHILD Study at Three Months of Age." AllerGen, NCE Research conference, February, 2011, Vancouver, BC.
1. Wang R, Henderson S, **Allen R**, and Brauer M. "Assessment of the Temporal Stability of Land Use Regression Models for Traffic-Related Air Pollution." AllerGen, NCE Research conference, February, 2011, Vancouver, BC.

UNIVERSITY SERVICE

Simon Fraser University

- Faculty of Health Sciences Decanal Search Committee (2011/2012)
- University Committee for the Excellence in Teaching Awards (2011)

Faculty of Health Sciences

- Faculty Search Committees
 - Global Health Promotion (2014/2015)

- Spatial Perspectives and Risk in Population and Public Health (2010/2011)
- Spatial Perspectives in Public Health (2007/2008)
- Molecular Toxicology (2006/2007)
- Graduate Studies Committee (2007–2009, 2015)
- MPH Committee (2015)
 - MPH Admissions Committee Chair (2008 & 2009)
- Tenure & Promotion Committee (2010/2011)
- Undergraduate Studies Committee (2013-2016, 2018)

OTHER SERVICE

Committees, Workshops, and Working Groups

- U.S. National Academies of Sciences, Engineering, and Medicine
 - Workshop on Health Risks of Indoor Exposure to Particulate Matter, 2016
- BC Centre for Disease Control
 - Expert Reviewer, “Guidelines for Public Health Decision Making During Wildfire Smoke Events”, 2014
- British Columbia Lung Association
 - Air Quality and Health Workshop Organizing Committee (2011 –)
 - Committee Chair, 2014, 2017
 - “State of the Air” Report Writing Committee (2011 & 2012)
- International Society for Environmental Epidemiology
 - Conference Organizing Committee (2014)
- International Society of Exposure Science
 - Conference Program Committee (2012)
 - Awards Committee (2011 – 2013)

Research Funding Peer Review

- Canadian Institutes of Health Research (CIHR): Public, Community & Population Health Review Committee, 2012-2015, 2018
- US National Institutes of Health (NIH): Pathway to Independence Award (K99/R00), 2016.
- Research Councils UK, 2016.
- Canadian Institutes of Health Research (CIHR): Foundation Scheme Peer Reviewer, 2014
- Academy of Finland, 2014
- Swiss National Science Foundation, 2013
- Health Effects Institute: “Improving Assessment of Near-Road Exposure to Traffic Related Pollution” RFA Review Panel, May, 2013
- US Environmental Protection Agency, National Center for Environmental Research: “Measurements and Modeling for Quantifying Air Quality and Climatic Impacts of Residential Biomass or Coal Combustion for Cooking, Heating, and Lighting” RFA Review Panel, September, 2012
- Israel Environment and Health Fund, 2012.
- German Research Foundation, 2011.
- Pacific Northwest Agricultural Safety and Health Pilot Project Program, 2008.

Journal Peer Review Since 2010 (44 papers reviewed)

Air Quality, Atmosphere, and Health; Atmospheric Environment; BMC Pediatrics; BMJ; Canadian Geographer; Canadian J. of Public Health; Chemosphere; Circulation; Contemporary Clinical Trials;

Environmental Health; Environmental Health Perspectives; Environmental Research; Environmental Science & Technology; Epidemiology; Health & Place; Health Reports; Indoor Air; International J. of Environmental Research and Public Health; International J. of Health Geographics; International J. of Public Health; J. of the Air and Waste Management Association; J. of Environmental and Public Health; J. of Environmental Management; J. of Exposure Science and Environmental Epidemiology; Particle and Fibre Toxicology; PLOS Medicine; Respiration; Science of the Total Environment

Other Peer Review Activities

- World Health Organization, Indoor Air Quality Guidelines (Air Pollution Levels and Exposures Chapter), 2012-2013
- Health Canada, Residential Indoor Air Quality Science Assessment Document for Fine Particulate Matter, 2010

Invited Presentations

- BC Lung Association Directors' Meeting. Vancouver, BC, February 2017.
- UNICEF International Expert Consultation, "Understanding and addressing the impact of Air Pollution on Child Health in Mongolia". Ulaanbaatar, Mongolia, January 2016.
- Green Bell, NGO. Ulaanbaatar, Mongolia, January 2014.
- Health Sciences University of Mongolia Seminar Series. Ulaanbaatar, Mongolia, January 2014.
- Ulaanbaatar Air Pollution & Health Stakeholders Meeting. Ulaanbaatar, Mongolia, January 2013.
- American Center for Mongolian Studies Speaker Series. Ulaanbaatar, Mongolia, January 2013.
- National Educational Forum on the U.S. Environmental Protection Agency's Residential Wood Heater New Source Performance Standards. Minneapolis, MN, November 2012.
- BC Lung Association Directors' Meeting. Vancouver, BC, April 2012.
- Institute for Heart + Lung Health FEST Scientific Symposium. Vancouver, BC, March 2012.
- BC Lung Association Air Quality & Health Workshop. Vancouver, BC, March 2012.
- BC Lung Association Air Quality & Health Workshop. Vancouver, BC, March 2011.
- UBC School of Environmental Health Seminar Series. Vancouver, BC, October, 2010.
- Universidad del Valle Environmental Health Seminar Series. Cali, Colombia, June 2010.
- Institute national de santé publique du Québec, Air Pollution Sources and Health Risks Workshop. Montreal, QC, June 2010.
- BC Environmental and Occupational Health Research Network 2010 Educational Event. Victoria, BC, March 2010.
- BC Lung Association Air Quality & Health Workshop. Vancouver, BC, March 2009.
- Occupational Health and Safety Agency for Healthcare in BC (OHSAH) Seminar Series. Vancouver, BC, September 2008.
- UBC School of Environmental Health Seminar Series. Vancouver, BC, November 2007.
- International Biomass Smoke Health Effects Conference. Missoula, MT, August 2007.
- University of Washington Continuing Education Short Course, "Wood Smoke: Burning Health Issues." Seattle, WA, June 2006.