

OFER AMRAM

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EDUCATION

Joint PhD Degree, Ben- Gurion University of the Negev, Beer Sheva, Israel, Faculty of Health Sciences and Simon Fraser University, Burnaby, BC, Geography
Graduate Degree – PhD September (2015)

Simon Fraser University, Burnaby, BC
Graduate Degree - MSc Geography (2011)

Simon Fraser University, Burnaby, BC
Undergraduate Degree – BA Geography (2009)

Simon Fraser University, Burnaby, BC
Spatial Information Systems Certificate (2009)

TEACHING EXPERIENCE

Instructor –HSCI424 Strategic Applications of GIS in Health (September 2014 semester)
Simon Fraser University – Faculty of Health Sciences

- Delivered weekly 2 hour lectures on the application of GIS within a public health context
- Assisted students in the development of their final research project
- Provided technical assistance in the use of GIS

Instructor –PHDA03 Population Health and Geographic Information Systems (January 2014 Semester)
University of Victoria

- Delivered an online course addressing the technical and theoretical applications of GIS and public health
- Provided technical assistance to students on the use of ArcGIS
- Guided students through readings and discussions of GIS theory

Instructor –Spatial Analysis Workshop (February 2013)
BC Centre for Excellence in HIV/AIDS - Gender and Sexual Health Initiative

- Developed and delivered workshop content
- Provided technical assistance to researchers and professionals using ArcGIS

Guest Lecturer (February 2010, March 2011)
Simon Fraser University, Faculty of Health Sciences
HSCI 846 – Environmental Health Exposure Assessment and Analysis

- Provided two guest lectures on introductory GIS and spatial analysis methods

Teaching Assistant (January 2012 – April 2012; January 2013 – April 2013, January 2014 - April 2014)
Simon Fraser University, Faculty of Health Sciences
HSCI 424 – Strategic Applications of GIS in Health

- Taught, supervised and assisted students with weekly GIS labs and assignments
- Assisted with the development of course labs and assignments

Teaching Assistant (January 2010 – April 2010)
Simon Fraser University, Geography Department
GEOG 255 - Geographic Information Science

- Provided students with guidance and technical assistance in the use of ArcGIS and related extensions
- Assisted in the development of course labs and assignments

PROGRAMMING AND TECHNICAL SKILLS

- Extensive knowledge of ArcGIS, ArcGIS Server API, Spatial Analyst, Network Analyst, Geostatistical Analyst, SatScan and GeoDa
- Extensive knowledge of Geographic Information Systems protocols, methods and issues
- Programming with JavaScript (Including libraries like JQuery and D3.js), Python, C#, Html, CSS and SQL
- Illustrator, Photoshop for cartography

STATISTICAL SKILLS

- Extensive knowledge of R and SAS
- Experience building linear and generalized linear models (including adjusting for spatial autocorrelation)

EMPLOYMENT

Post-Doctoral Fellow (September 2015 - Current)
BC Centre for Excellence in HIV/AIDS

- Implement and design research methodologies for examining spatial access to HIV treatment. Spatial analysis and cluster identification of outbreaks of HIV in BC.

GIS Analyst/Research Assistant (May 2010 - August 2015)
BC Centre for Excellence in HIV/AIDS

- Utilized GIS to conduct public health analysis. Tasks included data preparation and identification as well as recommendation and development of methodologies for spatial analysis

Lead, Spatial Data Unit (January 2011 – January 2014)
Population Data BC, SFU

- Supported researchers in the use of spatial data and GIS
- Enhanced the use of the Secure Research Environment through the introduction of new software and analysis methods
- Improved methods of data/spatial data anonymization

Statistician Assistant (June 2012 – May 2013)
Research Data Centre, Simon Fraser University

- Supervised use of the RDC (preparation of contracts, maintenance of administrative databases, loading of data sets onto the server)
- Provided assistance in the use of the computer network and statistical software
- Maintained the integrity of the security systems

GIS Analyst/Research Assistant (September 2008- May 2010)

SFU Geography department – Professor Nadine Schuurman

- Provided GIS and spatial analysis assistance on several research projects related to health geography. Tasks involved developing research methodologies and writing papers

GIS Analyst/Research Assistant (May 2008 - September 2008)

Institute for Canadian Urban Research – SFU Criminology department

- Utilized GIS to conduct crime analysis. Tasks included data preparation and identification/ development of custom code for spatial data manipulation and workflow optimization

GIS Analyst/Research Assistant (January 2008 - January 2009)

SFU Health Science - Associate Professor Ryan Allen

- Responsible for all GIS tasks including data collection, geoprocessing, data management and cartography as part of a research project estimating air pollution using land use regression

GIS and Infrastructure Coordinator (May 2007 – September 2009)

City of Port Moody Parks and Operations

- Supervised collection of spatial data and the creation of a database for the purpose of asset management (PSAB). Responsibilities included: updating assets, data management, spatial analysis

Geo-coding Technician (November 2006)

Lyn Hinds, Department of Criminology, Australian National University

- Used ArcMap to geo-code crime locations using paper maps, web-based maps and physical inspection of locations

CONTRACT WORK

Spatial Analyst

CIHR Pan-Canadian Asset Map

- Contracted to build a flash-based mapping system to display CIHR research awards over the past 5 years across Canada

Programmer (January 2012 – May 2012)

BC Cancer Agency

- Contracted to build a web based booking system to enable administrators to book cancer patients for PET/CT scans at the hospital

Spatial Analyst (April 2012 – June 2012)

Dr. Meghan Winters – Simon Fraser University, Faculty of Health Science

- Contracted to produce spatial data and conduct spatial analysis for a walkability research project. Tasks involved the preparation of large spatial datasets and the development of methodology

Spatial Analyst (April 2011 – September 2012)

Sgt. Diane Cockle – Forensic Analysis RCMP, BC.

- Contracted to conduct spatial analysis for body decomposition and to build a predictive model to examine body decomposition rates based on environmental variables

Lead Researcher (January 2011 – December 2011)

Fraser Health Authority

- Contracted to produce a research report analyzing the delivery of health services to the population

within the Fraser Health Authority (BC) and to provide recommendations for improvements in service delivery

AWARDS

- **September 2016** – Canadian Institute for Health Research Post-Doctoral Fellowship Award(\$124,500)
- **March 2016** – AIDS 2016 Conference, Durbin South Africa, Travel Award (\$5,000)
- **September 2015** - Michael Smith Foundation for Health Research Post-Doctoral Fellowship Award(\$124,500)
- **September 2013** – Canadian Institute for Health Research Doctoral Award(\$120,000)
- **May 2015** - SFU-BGU Travel Award - \$2,000
- **May 2013** - Graduate Fellowship SFU - \$6,250
- **May 2011** - Graduate Fellowship SFU - \$6,250

GRANTS

- Impacts of novel HCV and addiction treatment modalities on engagement in the HCV cascade of care among people who inject drugs ; National Institute on Drug Abuse; US\$ 754,427; Role: Co-Investigator, 2016 – 2019; Submitted
- Impacts of novel HCV and addiction treatment modalities on engagement in the HCV cascade of care among people who inject drugs– Canadian Institutes of Health research; CIHR: Project Grant competition; CAD\$ 440,000; Role: Co- Investigator, 2016 - 2019; Submitted
- The CIHR Team in Child and Youth Injury Prevention – Canadian Institutes of Health research grant; Budget: CAD\$ 2,000,000; Role: Trainee, 2010 -2016

ALL PUBLICATIONS & CONFERENCES:

PUBLISHED REFEREED PAPERS

O. Amram, J. Shoveller, L. Wang, S. Jabbari, R. Barrios, J. Montaner, V. Lima “Assessing the Relationship Between Physician Availability and Viral Load Suppression”, *The Canadian Geographer/Le Géographe canadien* (2017) In Print.

Mariana Brussoni , Anne George , Andrew Jin , **Ofer Amram** , Rod McCormick, Christopher E. Lalonde “Hospitalizations due to Unintentional Transport Injuries among Aboriginal population of British Columbia, Canada: Incidence, Changes over Time and Ecological Analysis of Risk Markers” *PLOS-ONE*, PONE-D-16-33157, Accepted, Final Revisions

Ednie, Alexander C., **Ofer Amram**, Nadine Schuurman, and Natalie L. Yanchar. "Comparing pyloromyotomy outcomes across Canada." *Journal of Pediatric Surgery* (2017).

Goldenberg, S. M., Deering, K., **Amram, O.**, Guillemi, S., Nguyen, P., Montaner, J., & Shannon, K. (2017). Community mapping of sex work criminalization and violence: impacts on HIV treatment interruptions among marginalized women living with HIV in Vancouver, Canada. *International journal of STD & AIDS*, 0956462416685683.

Ednie AC, **Amram O**, Creaser J, Schuurman N, Leclerc S, Yanchar NL ,“Hypertrophic pyloric stenosis in the maritimes - examining the waves of change over time”, *Can J Surg* (2016): 1

Amram, O., Walker, B. B., Schuurman, N., Pike, I., & Yanchar, N. "Disparities in Paediatric Injury Mortality between Aboriginal and Non-Aboriginal Populations in British Columbia, 2001–2009." *International journal of environmental research and public health* 13.7 (2016): 651.

Yuchi, Weiran; Knudby, Anders; Cowper, Joanna; Gombojav, Enkhjargal; **Amram, Ofer**; Walker, Blake; Allen, Ryan (2015) "Derivation of land use surrogates from remote sensing data for modelling spatial patterns of air pollution in Ulaanbaatar, Mongolia", *The Canadian Geographer/Le Géographe canadien* (2016).

Jeffrey R Brubacher, Herbert Chan, **Ofer Amram**, Shannon Erdelyi, and Nadine Schuurman ,” The association between regional environmental factors and road trauma rates”, *PloS one* 11.4 (2016): e0153742

AJ Hirsch Allen, **Amram. O**, et.al (2015) “Relationship between Travel Time from Home to a Regional Sleep Apnea Clinic in British Columbia, Canada, and the Severity of Obstructive Sleep”, *Annals of the American Thoracic Society*, 13.5 (2016): 719-723.

Ofer Amram, Nadine Schuurman, Ian Pike, Michael Friger and Natalie L Yanchar, “Assessing access to pediatric trauma centres in Canada and the impact of the golden hour on Length of stay at the Hospital – Observational study” *BMJ Open* (2016);6:1 e010274 doi:10.1136/bmjopen-2015-010274

Ofer Amram, Nadine Schuurman, Natalie L Yanchar, Ian Pike, Michael Friger and Donald Griesdale, "Use of geographic information systems to assess the error associated with the use of place of residence in injury research" *Injury epidemiology* 2.1 (2015): 1-8.

Amram, O., Schuurman, N., Pike, I., Yanchar, N. L., Friger, M., McBeth, P. B., & Griesdale, D. "Socio Economic Status and Traumatic Brain Injury amongst Pediatric Populations: A Spatial Analysis in Greater Vancouver." *International Journal of Environmental Research and Public Health*, (2015), 12(12), 15594-15604; doi:10.3390/ijerph121215009

Gavin H. Tansley, Nadine Schuurman, **Ofer Amram** and Natalie Yanchar, "Spatial access to emergency services in low and middle-income countries: a GIS-based analysis", *PloS one* 10.11 (2015): e0141113.

Putu Duff, Jean Shoveller, Gina Ogilvie, **Ofer Amram**, Sabina Dobrer, Paul Nguyen, Jill Chettiar, Julio Montaner, Kate Shannon. (2015) "Barriers to Cervical Screening Among Sex Workers in Vancouver: The Importance of Social and Structural Factors in Shaping Access to Reproductive Health Services." *American Journal of Public Health* 0 (2015): e1-e8.

Nadine Schuurman, **Ofer Amram**, Valorie A. Crooks, Rory Johnston and Allison Williams. "A comparative analysis of potential spatio-temporal access to palliative care services in two Canadian provinces." *BMC Health Services Research* 15.1 (2015): 270

Fiona Lawson, Nadine Schuurman, **Ofer Amram**, Avery B. Nathens. A Geospatial Analysis of The Relationship Between Neighborhood Socio-Economic Status And Adult Severe Injury In Greater Vancouver. *Injury Prevention* (2015): injuryprev-2014.

Deering, Kathleen N., Melanie Rusch, **Ofer Amram**, Jill Chettiar, Paul Nguyen, Cindy X. Feng, and Kate Shannon. "Piloting a 'spatial isolation' index: The built environment and sexual and drug use risks to sex workers." *International Journal of Drug Policy* 25.3 (2014): 533-542.

Allen, R., Gombojav. E, Barkhasragchaa. B, Byambaa. T, Lkhasuren. O, **Amram. O**, Takaro. T, Janes. C, "An assessment of air pollution and its attributable mortality in Ulaanbaatar, Mongolia." *Air Quality, Atmosphere & Health*: 1-14 (2013).

Schuurman N, **Amram O**, Saeedi J., Rieckmann P, Yee I, and Tremlett H. "A proposed methodology to estimate the cumulative life-time UVB exposure using Geographic Information Systems: an application to multiple sclerosis", *Multiple Sclerosis and Related Disorders* ,2013, 2(1): 29-35

Amram, O., N. Schuurman, et al. "A web-based model to support patient-to-hospital allocation in mass casualty incidents." *The Journal of Trauma and Acute Care Surgery* 72.5 (2012): 1323-1328.

Amram. O, Abernethy. A, Brauer. M, Allen, R. W. " Proximity of Public Elementary Schools to Major Roads in Canadian Urban Areas" *International Journal of Health Geographics* 10.68 (2011): 1-11.

Amram, O., N. Schuurman, et al. "Mass Casualty Modeling: a spatial tool to support triage decision making". *International Journal of Health Geographics*, BioMed Central. 10: (2011) 40-46.

Allen, R. W., **O. Amram**, et al. "The transferability of NO and NO₂ land use regression models between cities and pollutants." Atmospheric Environment **45**(2): (2010) 369-378.

Hameed, S. M., N. Schuurman, Razek. T, Boone. D, Van Heest, R, Taulu. T, Lakha. N, Evans. D, Brown. D, Kirkpatrick. A, Stelfox. H, Dyer. D, Logsetty. S, Mary. S, Logsetty. S, Nathens. A, Charyk-Stewart. T, Rizoli. S, Tremblay. L, Brenneman. F, Ahmed. N, Galbraith. E, Parry. N, Girotti. M, Pagliarello. G, Tze. N, Khwaja, K, Yanchar. N, Tallon. J, Trenholm. J, Tegart. C, **Amram. O**, Berube. M, Hameed. U, Simons. R, "Access to Trauma Systems in Canada." The Journal of Trauma **69**(6): (2010)1350-1361.

Schuurman, N., V. A. Crooks, **Amram. O** . "A protocol for determining differences in consistency and depth of palliative care service provision across community sites." Health & Social Care in the Community **18**(5): (2010) 537-548.

PUBLICATIONS UNDER REVIEW

O. Amram, J. Shoveller, R. Hogg, L. Wang, S. Jabbari, R. Barrios, J. Montaner, V. Lima "Distance to HIV Care & Treatment Adherence: Adjusting for Socio-Demographic and Geographical Heterogeneity", *Spatial and Spatio-temporal Epidemiology*, 2017

PUBLISHED ABSTRACTS

Sy E, **Amram O**, Baer H, Hameed M, Griesdale D. 1512: Transportation Time and Hospital Mortality in ICU Patients with Severe Traumatic Brain Injury. *Critical care medicine*. 2016 Dec 1;44(12):453

P. Duffl, **O. Amram** , G. Ogilvie, J. Shoveller, S. Dobrer, P. Nguyen, J. Montaner, S. Goldenberg, K. Shannon1,. (2014). Structural barriers to Pap testing among sex workers living with and affected by HIV. *AIDS2014*. *AIDS2014*, Melbourne, Australia, 2014-07-22.

Deering, K., C. Feng, **O. Amram**, J. Montaner, J. Chettiar, S. Strathdee, and K. Shannon. Mapping spatial barriers and facilitators to HIV testing by work environments among sex workers in Vancouver, Canada. In *JOURNAL OF THE INTERNATIONAL AIDS SOCIETY*, vol. 15, pp. 171-172. AVENUE DE FRANCE 23, GENEVA, 1202, SWITZERLAND: INT AIDS SOCIETY, 2012.

Allen, Ryan, Enkhjargal Gombojav, Baldorj Barkhasragchaa, Oyuntogos Lkhasuren, **Ofer Amram**, and Craig Janes. Characterization of Wintertime Air Pollution Concentrations and Variability in Ulaanbaatar, Mongolia. [Abstract], *Epidemiology* January 2011;22 (1) January Supplement 2011, 2010 Joint Conference of International Society of Exposure Science & International Society for Environmental Epidemiology:S116.

Amram. O, Schuurman. N, Mass Casualty: a Spatial Model to Support Triage Decision Making, Spatial knowledge and information – Canada, Date: March 3 – 6, 2011 Fernie BC, Canada. website: <http://rose.geog.mcgill.ca/ski/node/572>

Amram. O, Schuurman. N, Tremblatt. H Spatial and Temporal Modeling of Individuals Life Time Exposure to Ultraviolet B Radiation [Abstract]The 25th International Cartographic Conference, Date: July 3- 8 2011, Palais De Congress, Paris, France. Proceedings of the 25th international Cartographic Conference: http://icaci.org/documents/ICC_proceedings/ICC2011/

PRESENTATIONS AS GUEST SPEAKER

Patterns and correlates of displacement of sex workers and implications for HIV programmes: Findings of a community-based project in Vancouver, Canada

O. Amram, K. Shannon, M. Braschel, S. Machat, S. Moreheart, J. Montaner, S. Goldenberg, IAS 2017, Paris, France

The Impact of Distance to HIV Care on Adherence to Treatment - Adjusting for Population and Geographical Heterogeneity Using Advanced Spatial Analysis

O. Amram, J. Shoveller, R. Hogg, L. Wang, S. Jabbari, R. Barrios, J. Montaner, V. Lima, AIDS 2016, Durbin, South africa

Physical and sexual violence independently correlated with reduced adherence to ART among women sex workers living with HIV in Vancouver, Canada.

Deering K, Nguyen P, **O. Amram**, Chettiar J, Guillemi S, Montaner JS, Shannon K. (2015). 8th IAS Conference on HIV Pathogenesis, Treatment and Prevention, Vancouver, Canada

Impacts of the spatial 'risk environment' on ART interruptions among sex workers living with HIV/AIDS: Implications for ART programmes and policy reforms Methods and Applications in Spatial Epidemiology.

Deering K, Nguyen P, **O. Amram**, Chettiar J, Guillemi S, Montaner JS, Shannon K. (2015). 8th IAS Conference on HIV Pathogenesis, Treatment and Prevention, Vancouver, Canada

Is travel time between home and the sleep clinic a barrier to the diagnosis and treatment of Obstructive Sleep Apnea (OSA)?
AJ Hirsch Allen, **O. Amram**, Najib T. Ayas. (2015).. SLEEP2015- A joint meeting of the American Academy of Sleep Medicine and the Sleep Research Society, Seattle, United States

Spatial analysis of The Relationship between Socio-Economic Status and Pediatric Injury in BC.

O. Amram , Schuurman, N. , Association of American Geographers Annual Meeting - 2015, Chicago, United State

Structural Barriers to Pap Testing among Sex Workers Living with and Affected by HIV.

P. Duff, **O. Amram**, G. Ogilvie, J. Shoveller, S. Dobrer, P. Nguyen, J. Montaner, K. Shannon1,4. International AIDS Society Conference: July 20-25, 2014. Melbourne, Australia.

Cartography as a Basis for Understanding and Communicating Health and Access to Health Services.

O. Amram, Schuurman, N.(2014). Association of American Geographers 2014., Tampa, United States

Pediatric Population Access to Trauma Systems in Canada

Author(s): **Amram. O**, Schuurman. N. Conference Information: Canadian Injury Prevention and Safety Promotion Conference. Date: Nov 05-17 2013, Montreal, Canada.

A comparative analysis of potential spatial access to palliative care services in two Canadian provinces

Amram. O, Schuurman. N Conference Information:

The Canadian Association of Geographers – Annual meeting, Date: Aug 11th – 15th 2013, Memorial University, NL, Canada

Spatio-Temporal Visualization of individuals Life Time Exposure to UVB

Amram. O, Schuurman. N. Conference Information: ESRI International User Conference 2013. Date: July 8-12 2013, San Diego, California.

Spatial and Temporal Modeling of Individuals Life Time Exposure to Ultraviolet B Radiation

Amram. O, Schuurman. N Conference Information: GeoMED 2011, Date: October 20 -22nd 2011 Victoria, BC, Canada

Spatial Modeling to Assist In Patient Evacuation During Mass Casualty Situations

Amram. O, Schuurman. N Conference Information: GEOTEC Event, Date: September 29, 2011, Vancouver, BC, Canada (Conference Presentation, Invited Speaker)

Modeling Patient Evacuation Flow During a Mass Casualty: A Decision Making Model Using GIS

Amram. O, Schuurman. N Conference Information: The Canadian Association of Geographers – Annual meeting, Date: May 31th – June 4th 2011, University of Calgary, Calgary, AB, Canada

Spatial Modeling to Assist in Patient Evacuation During Mass Casualty Situations

Amram. O, Schuurman. N Conference Information: Western Division of the Canadian Association of Geographers 2011 Annual Meeting, Date: March 10th – 12th 2011, Simon Fraser University, Burnaby, BC, Canada

Spatial Modeling of Patient Evacuation and Allocation of Definitive Care in Mass Casualty Situations

Ofer Amram, Nadine Schuurman, SM Hameed . Conference Information: Trauma Association of Canada (TAC) Annual Scientific Meeting 2010, Date: May 6-7 , Halifax, Nova Scotia, Canada

Uncertainty Associated with Environmental Correlates: Challenges in Calculating the UVB Ambient Environment for Individual Multiple Sclerosis Patients

Nadine Schuurman, **Ofer Amram**, Jameelah Saeedi, Peter Rieckmann, Dessa Sadovnick and Helen Tremlett. Conference Information: 25th Congress of The European Committee For Treatment and Research In Multiple Sclerosis Date: September 9–12, 2009 Düsseldorf, Germany

Transferability of Traffic Pollution Land-Use Regression Models Between Canadian Cities

Allen, R., **O. Amram**, et al. [Abstract], Epidemiology ISEE 2008 Conference Abstracts Supplement. November 2008;19(6) Supplement:S150-S151.

RESEARCH REPORT

Michael Hayes, **Ofer Amram**. (2012). Fraser Health: A Population Health Analysis. 25. *Fraser Health, Health Authority*.

Deering, K.N.; Amram, O.; Gibson, K. Shannon, K. Trends in Violence against Street-Based Sex Workers in Vancouver, Canada, 2005-2010: An Analysis of the 'Bad Date' Registry. Internal Research Report for BC Center for Excellence for HIV/AIDS, Vancouver, BC.

BROADCAST INTERVIEWS

2012-01-08, Proximity of Public Elementary Schools to Major Roads in Canadian Urban Areas, The world today, Weekend Edition, CKNW, Gord MacDonald

2012-01-06, Proximity of public elementary schools to major roads in Canadian urban areas, Dave Dickson show, CFAX Radio, Dave Dickson Interview

2012-01-06, Proximity of public elementary schools to major roads in Canadian urban areas, News, Fairchild-TV Interview

TEXT INTERVIEWS

2012-01-07, Proximity of public elementary schools to major roads in Canadian urban areas, THE CANADIAN PRESS Interview

2012-01-04, Proximity of public elementary schools to major roads in Canadian urban areas, Janet Steffenhagen, Vancouver Sun

2015 - 12 - 06, Barriers to Cervical Screening Among Sex Workers in Vancouver: The Importance of Social and Structural Factors in Shaping Access to Reproductive Health Services. Megan Devlin, The thunderbird.ca, <http://thethunderbird.ca/2015/12/06/outreach-makes-the-difference-to-sex-workers-health/>

2015 - 12 - 08, Barriers to Cervical Screening Among Sex Workers in Vancouver: The Importance of Social and Structural Factors in Shaping Access to Reproductive Health Services. Stefania Seccia, 24 hours, Vancouver, Vancouver, <http://vancouver.24hrs.ca/2015/12/08/sex-workers-face-health-care-barriers>

ARTICLES IN PROFESSIONAL OR CULTURAL JOURNALS WITHOUT REVIEW COMMITTEE

[A Web-Based Spatial System Assists Patient Evacuation During a Mass Casualty](#)

Author(s): **Amram. O.** GeoWorld Magazine, October 2011 Issue

VOLUNTEER

2014 - Spatial Analyst, Food Bank Vancouver

SESSION ORGANIZING

Co-Organizer of the "Student and Early Career Committee" at the International Health and Data linkage Conference 2014. Vancouver BC.

Co-organizer of “*Advances in the Spatial Epidemiology of Socioeconomic Determinants, Access, and Health*” at the 2015 Annual Meeting of the Association of American Geographers: *Chicago, Illinois*.

PROFESSIONAL MEMBERSHIP

Canadian Association of Geographers Specialty Groups: Geography of Health and Health Care, GIScience

Association of American Geographers Specialty Groups: Health and Medical Geography, GIScience and Systems, Cartography, Communication Geography

MANUSCRIPT REVIEWER

2012, 2014, 2015 – The Canadian Geographer

2013 - Journal of the Air & Waste Management Association

2015 - Egyptian Journal of Remote Sensing

2015 - PLOS ONE

2016 - Spatial and Spatio-temporal Epidemiology

2016 - Injury Epidemiology