

## Curriculum Vitae

**Daniel J. Corsi**

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### **1 Contact Information**

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### **2 Education**

Ph.D., Health Research Methodology (Population & Public Health), McMaster University, Hamilton, Ontario, Canada, 2012.

M.Sc., Public Health, London School of Hygiene & Tropical Medicine, London, UK, 2006.

B.A., Sociology, Emory University, Atlanta, Georgia, USA, 2004.

### **3 Academic Appointments**

Visiting Fellow in Social and Community Medicine, University of Bristol, School of Social and Community Medicine, Bristol, UK, 2014 to the present.

David E. Bell Fellow, Harvard Center for Population & Development Studies, Harvard University, Cambridge, MA, USA, 2012 to the present.

Research Fellow, Population Health Research Institute, McMaster University, Hamilton, Canada, 2008-2012.

Endeavour Research Fellow, The George Institute for Global Health, Sydney, Australia, 2011-2012.

Research Fellow, Centre for Global Health Research, University of Toronto, Toronto, Canada, 2007-2008.

Research Assistant, Noojimawin Health Authority, Toronto, Canada, 2007.

Research Assistant, Westminster NHS Primary Care Trust, London, UK, 2005-2006.

Summer Student, Maryland Technology Enterprise Institute, University of Maryland, College Park, MD, USA, 2002-2004.

Laboratory Assistant, Winship Cancer Institute, Emory University, Atlanta, GA, USA, 2000-2002.

## 4 Honours & awards

- Fellowship award for ‘Systematic Explanatory Analyses of Risk factors affecting Cardiovascular Health in India’, Swiss Re and Harvard School of Public Health, 2013.
- Faculty of Health Sciences Graduate Programs Outstanding Thesis Award, Health Research Methodology Program, McMaster University, 2013.
- Training award, ‘International Course in Nutrition Research Methods’, Bangalore Boston Nutrition Collaborative, St. John’s Research Institute, St. John’s National Academy of Health Sciences, Bangalore, India, 2013.
- *David E. Bell Postdoctoral Fellowship*, Harvard Center for Population & Development Studies, 2012-2014.
- *Endeavour Research Fellowship*, an internationally competitive, merit-based scholarship program sponsored by the Australian Government, 2011-2012.
- Training award, Program in Advanced Spatial Analysis, NIH, 2011.
- Michael Gent Prize, best student poster, Department of Clinical Epidemiology & Biostatistics, McMaster University, 2011.
- Vanier Canada Graduate Scholarship (finalist), McMaster University, 2009.

## 5 Areas of specialization

- Epidemiology; Maternal/child health and nutrition in low-income countries;
- Multilevel and spatial quantitative analytical methods for population health research;
- Intergenerational, socioeconomic, and lifecourse perspectives for understanding child growth and nutrition;
- Interpretation and analysis of social and geographic variation in cardiovascular disease and risk factors in populations worldwide.

## 6 Research Support (Completed)

Period	Funding Source, Type, and Amount	Title and Role
Apr/10-Apr/13	CIHR, operating grant, \$395,912	Societal and Environmental Determinants of Lipids as Risk Factors for Cardiovascular Disease in 17 countries worldwide; Role: Co-investigator
Jan/13-June/13	Gates Foundation India, contract, \$15,000	District and sub-district level trends in health, nutrition, and socioeconomic development in Uttar Pradesh, India; Role: Co-Principal Investigator
Dec/12-Nov/13	UNICEF, contract, \$30,000	Assessing the quality of child nutrition data in the Demographic and Health Surveys; Role: Co-Principal Investigator
Feb/13-Sept/13	USAID, contract, \$30,000	Levels and trends in under-five mortality in Sub-Saharan Africa; Role: Co-Principal Investigator

## 7 Research Support (On-going)

Period	Funding Source, Type, and Amount	Title and Role
Mar/13-Feb/14	PGDA, pilot grant, \$5,000	Intergenerational transmission of nutrition in India: applying innovative methods to testing the intrauterine mechanism; Role: Principal Investigator
May/13-Sept/14	Swiss Re and HSPH, \$30,000	Systematic Explanatory Analyses of Risk factors affecting Cardiovascular Health in India; Role: Principal Investigator

## 8 Bibliography

### Original Articles in Peer-reviewed Journals

1. **Corsi DJ**, Bassani DG, Kumar R, Awasthi S, Jotkar R, Kaur N, Jha P. Gender inequity and age-appropriate immunization coverage in India from 1992 to 2006. *BMC Int Health Hum Rights* 2009 Oct 14; Suppl 1: S3.
2. Chow CK, Lock K, Madhavan M, **Corsi DJ**, Gilmore AB, Subramanian SV, et al. Environmental Profile of a Community's Health (EPOCH): an instrument to measure environmental determinants of cardiovascular health in five countries. *PLoS ONE* 2010 5(12)e:14294.
3. **Corsi DJ**, Chow CK, Lear SA, Rahman MO, Subramanian SV, Teo KK. Shared environments: a multilevel analysis of community context and child nutritional status in Bangladesh. *Public Health Nutr* 2011 14(6):951-9.
4. **Corsi DJ**, Kyu HH, Subramanian SV. Socioeconomic and geographic patterning of under- and overnutrition among women in Bangladesh. *J Nutr* 2011 141(4):631-8.

5. Teo KK, **Corsi DJ**, Tam JW, Dumesnil JG, Chan K. Lipid lowering on progression of mild to moderate aortic stenosis: meta-analysis of the randomized placebo controlled clinical trials on 2344 patients. *Can J Cardiol* 2011 27(6):800-8.
6. **Corsi DJ**, Finlay J, Subramanian SV. Global Burden of Double Malnutrition: Has Anyone Seen It? *PLoS ONE* 2011 6(9):e25120.
7. **Corsi DJ**, Finlay J, Subramanian SV. Weight of Communities: a multilevel analysis of body mass index in 32,814 neighborhoods in 57 Low- to Middle-Income Countries (LMICs). *Soc Sci Med* 2012 Jul;75(2):311-22.
8. **Corsi DJ**, Subramanian SV. Association between socioeconomic status and self-reported diabetes in India: a cross-sectional multilevel analysis. *BMJ Open* 2012 2(4):e000895.
9. **Corsi DJ**, Subramanian SV, Mckee M, Li W, et al. Environmental Profile of a Community's Health (EPOCH): An econometric assessment of community measures based on individual perception. *PLoS ONE* 2012 7(9):e44410.
10. **Corsi DJ**, Chow C, Lear S, Subramanian SV, Teo K, Boyle M. Smoking in Context: A Multilevel Analysis of 49,088 Communities in Canada. *Am J Prev Med* 2012 43(6):601-610.
11. **Corsi DJ**, Neuman M, Finlay J, Subramanian, SV. Demographic and Health Surveys: A Profile. *Int J Epidemiol* 2012 41(6):1602-13.
12. Razak F, **Corsi DJ**, Subramanian SV. Change in the Body Mass Index Distribution for Women: Analysis of Surveys from 37 Low- and Middle-Income Countries. *PLoS Medicine* 2013 10(1):e1001367.
13. Choong K, Tran N, Clark H, Cupido C, **Corsi DJ**. Acute Rehabilitation in Critically Ill Children. *J Pediatr Intensive Care* 2012 1(4):183-92.
14. Subramanian SV, **Corsi DJ**, Subramanyam, MA, Davey Smith G. Jumping the gun: discourse on socioeconomic status and cardiovascular disease risk in India. *Int J Epidemiol* 2013 42(5):1410-26.
15. **Corsi DJ**, Lear S, Chow C, Subramanian SV, Boyle M, Teo K. Socioeconomic and geographic patterning of smoking behaviours in Canada: a cross-sectional multilevel analysis. *PLoS ONE* 2013 8(2):e57646.
16. **Corsi DJ**, Subramanian SV, Lear S, Chow C, Teo K, Boyle M. Co-variation in current smoking, cigarettes per day, and pack years: a multivariate multilevel analysis of smoking behaviour in Canada. *Health Place* 2013 22:29-37.
17. **Corsi DJ**, Subramanian SV, Chow CK, McKee M, Chifamba J, Dagenais G, Diaz R, Iqbal R, Kelishadi R, Kruger A, Lanas F, Lopez-Jaramillo P, Mony P, Mohan V, Avezum A, Oguz A, Rahman MO, Rosengren A, Szuba A, Li W, Yusoff K, Yusufali A, Rangarajan S, Teo K, Yusuf S. The Prospective Urban Rural Epidemiology (PURE) study: Baseline characteristics of the household sample and comparative analyses with national data in 17 countries. *Am Heart J* 2013 166(4):636-646.e4.
18. **Corsi DJ**, Boyle M, Lear S, Teo K, Subramanian SV. Trends in smoking in Canada from 1950 to 2011: progression of the tobacco epidemic according to socioeconomic status and geography. *Cancer Causes Control* 2013 Oct 25 doi:10.1007/s10552-013-0307-9.

19. **Corsi DJ**, Subramanian SV, Lear S, Teo K, Boyle M, Raju PK, Joshi R, Neal B, Chow C. Tobacco use, smoking quit rates and socioeconomic patterning among men and women: a cross-sectional survey in rural Andhra Pradesh, India. *Eur J Prev Cardiol* 2013 May 30, doi: 10.1177/2047487313491356.
20. **Corsi DJ**, Subramanian SV. Divergent socioeconomic gradients in smoking by type of tobacco use in India. *Int J Tuberc Lung Dis* 2014 18(1): 122-124.
21. Bassani DG, **Corsi DJ**, Barros AJD. India's national wealth score with local reference distributions. *PLOS One* 2013 (under review).
22. Chow CK, **Corsi DJ**, Lock K, Madhavan M, Mackie P, et al. Evaluating the community built environment using photographs – EPOCH Photo. *PLoS ONE* 2013 (revise & resubmit).
23. **Corsi DJ**, Subramanian SV, Ackerson LK, Davey Smith G. Is there a greater maternal than paternal influence on offspring adiposity in India? *PLoS Medicine* 2014 (submitted).
24. Razak F, **Corsi DJ**, Berkman L, Kurpad AV, Subramanian SV. A Study of Chronic Energy Deficiency in 57 Low and Middle Income Countries. *Am J Clin Nutr* 2014 (submitted).
25. **Corsi DJ**, Subramanian SV. Association between coverage of maternal and child health interventions, and under-five mortality: a repeated cross-sectional analysis of 35 sub-Saharan African. *Glob Health Action* 2014 (submitted).
26. **Corsi DJ**, Gaffey MF, Bassani DG, Subramanian SV. Levels and trends in gender disparities in undernutrition among children in India from 1992-93 to 2005-06. *Public Health Nutr* 2014 (submitted).

### Editorials, Commentaries, Letters in Peer-reviewed Journals

27. Subramanian SV, **Corsi DJ**. Can India achieve a balance of sexes at birth? *Lancet* 2011 377(9781):1893-4.
28. **Corsi DJ**, Subramanyam MA, Subramanian SV. Measuring nutritional status of children. *Int J Epidemiol* 2011 40(4):1030-6.
29. **Corsi DJ**, Davey Smith G, Subramanian SV. Challenges to establishing the link between birthweight and cognitive development. *Int J Epidemiol* 2013 42(1):172-5.
30. **Corsi DJ**, Subramanian SV. Revisiting the discourse on accomplishing MDG-4 *Int J Epidemiol* 2013 Jun;42(3):648-53.
31. Subramanian SV, Subramanyam MA, **Corsi DJ**, Davey Smith G. Rejoinder: Need for a data-driven discussion on the socioeconomic patterning of cardiovascular health in India *Int J Epidemiol* 2013 42(5):1438-43.
32. **Corsi DJ**, Subramanyam MA, Davey Smith G, Subramanian SV. Authors response to Gupta and Pednekar: Importance of examining cause-specific proportions of deaths as well as mortality rates *Int J Epidemiol* 2014 (in press).

## Peer-reviewed reports

33. **Corsi DJ**, Subramanian SV. Association between economic growth, coverage of maternal and child health interventions, and under-five mortality: a repeated cross-sectional analysis of 36 sub-Saharan African countries. DHS Analytical Studies No. 38. Calverton, Maryland, USA: ICF International; 2014 (forthcoming).

34. **Corsi DJ**, Subramanian SV. Report on the Quality of Anthropometric Data on Children's Height and Weight in 100 Health and Nutrition Surveys in the West Central Africa Region. New York: United Nations Children's Fund; 2014 (forthcoming).

## 9 Selected Presentations

"Development, validation and implementation of simple household instruments to measure immunization-related child mortality in India," Canadian International Immunization Initiative Conference, Ottawa, Canada, September 2007.

"Relationship of community facility availability and child weight and height in Bangladesh: a multilevel analysis," Hamilton Health Research in the City Conference. Hamilton, Canada, February 2009.

"Development of a household wealth index - *Prospective Urban Rural Epidemiological (PURE) study*," PURE Study Global Investigators meeting, Beijing, China, November 2009.

"Neighbourhood wealth, place of residence, and the coexistence of overweight and underweight among ever-married, non-pregnant women in Bangladesh," Clinical Epidemiology & Biostatistics Department Research Day, McMaster University, Hamilton, Canada, April 2010.

"*Environmental Profile of Community Health (EPOCH)* - Overview and Future Directions," Population Health Retreat, Population Health Research Institute, Hamilton, Canada, April 2010.

"The influence of household wealth on body mass index and smoking prevalence in the *Prospective Urban Rural Epidemiological (PURE) study*," Health Sciences Research Plenary, McMaster University, Hamilton, Canada, May 2010.

"Acute Rehabilitation Practices in the Pediatric Critical Care Unit (PCCU)," McMaster Child Health Trainee Research Day, McMaster Children's Hospital, Hamilton, Canada, June 2010.

"Parental BMI and offspring nutritional status in China: An assessment of intrauterine influence," Research Fellows Rounds, Population Health Research Institute, Hamilton, Canada, October 2010.

"*Weight of communities*: an analysis of residential environment and body mass index of women in low- to middle middle-income countries," Clinical Epidemiology & Biostatistics Department Research Day, McMaster University, Hamilton, Canada, March 2011.

"Do Non-participation and Non-representativeness threaten validity in Epidemiological Studies?" Research Fellows Rounds, Population Health Research Institute, Hamilton, Canada, May 2011.

“Validation of Baseline Data - *Prospective Urban Rural Epidemiological (PURE) study*,” PURE Study Global Investigators meeting, Toronto, Canada, June 2011.

“Systematic evaluation of the Food Environment - *The Environmental Profile of Community Health (EPOCH) study*,” PURE Study Global Investigators meeting, Toronto, Canada, June 2011.

“EPOCH Photo - Environmental profile of a community’s health using photos”, George Institute for Global Health, Sydney, Australia, May 2012.

“Parental body mass index and offspring growth in China: An assessment of intrauterine influence,” Harvard Center for Population and Development Studies Seminar Series, Cambridge, MA, December 2012.

“Multilevel Methods: An Overview,” Guest lecture for Gov 1016 Spatial Models of Environmental and Social Policy, Harvard University, Cambridge, MA, April 2013.

“Social determinants of Malnutrition,” Guest lecture for NUT 217 Global Nutrition, Harvard School of Public Health, Boston, MA, August 2013.

“Gender disparities in mortality, coverage of health interventions, and nutrition among children in India,” Harvard Center for Population and Development Studies Seminar Series, Cambridge, MA, October 2013.

“Jumping the gun: The problematic discourse on socioeconomic status and cardiovascular health in India,” Presented at the session on Emergence of Health Disparities over the Life Course (organized by EPI and IEA), American Public Health Association Annual Meeting, Boston, MA, November 2013.

“Cardiovascular disease in India: a social determinants perspective,” The future of human longevity: cardiovascular health, longer lives, Swiss Re Centre for Global Dialogue, Zurich, Switzerland, November 2013.

“Parental body mass index and offspring anthropometry in India: an assessment of intrauterine influence,” University of Ottawa, Department of Epidemiology & Community Medicine, November 2013.

“Is there a greater maternal than paternal influence on offspring adiposity in India?,” MRC Integrative Epidemiology Unit (IEU), University of Bristol, School of Social and Community Medicine, Bristol, UK, February 2014.

“Is there a greater maternal than paternal influence on offspring adiposity in India?,” University of Waterloo, School of Public Health and Health Systems, Waterloo, ON, March 2014.

## 10 Teaching Experience

Dates	Title	Institution	Experience
Jan/10-May/11	Teaching assistant, Nursing 2R03: Introduction to Statistics	McMaster University	Prepared and delivered tutorial sessions and lectures for approximately 30 nursing students
Sept/10-Dec/10	Teaching assistant, HRM 702: Introduction to Biostatistics	McMaster University	Prepared and delivered tutorial sessions and lectures for approximately 30 masters students
Jul/11	Invited Faculty (Multilevel methods)	University of California, Santa Barbara	Assisted in workshop lectures on multilevel models with 35 masters and doctoral students, and academics
Apr/13	Invited Faculty (Multilevel methods: G1016: Spatial Models of Environmental and Social Policy)	Harvard University	Guest lecture for about 20 graduate students
July/13	Invited Faculty (NUT 207 Analysis of health and nutrition data in low income countries)	Harvard School of Public Health	Guest lecture for about 15 graduate students
Aug/13	Invited Faculty (NUT 217 Global Nutrition)	Harvard School of Public Health	Guest lecture for about 20 graduate students
Sep/13	Co-instructor (INTREC)	Harvard School of Public Health	Online course on social determinants of health (SDH) framework and methods.

## 11 Selected Professional Activities

- Peer reviewer (*International Journal of Epidemiology*, *Journal of Epidemiology and Community Health*, *PLoS ONE*, *PLoS Medicine*, *Public Health Nutrition*, *Tobacco Control*, *Social Indicators Research*, *Social Science & Medicine*, *Economics & Human Biology*, *BMC Public Health*), 2008 to the present.
- Member, American Public Health Association, 2013-2014.
- Associate Member and Collaborator, Environment and Health, Core Indicators Project for Public Health in Ontario, Association of Public Health Epidemiologists in Ontario, 2008-2010.
- Member, International Association for Health and Human Rights, Emory University, 2004.



## 12 Computing Skills

- Statistical computing environments: Stata, R, SAS, SPSS, MLwiN, WinBUGS.
- Applications: Adobe Illustrator, ArcGIS, Windows database, spreadsheet, and presentation software.
- Operating Systems: Unix/Linux, Windows, Mac OS.

## 13 Volunteer Experience

- Organizer, Epidemiology Journal Club, Population Health Research Institute, Hamilton, ON, Canada, 2009-2011.
- Support staff, Kingsbridge Road Shortbreak Service for individuals with autism, learning disabilities, and challenging behaviour, London, UK, 2004-2006.
- Outreach volunteer, services for the poor and homeless, SafeHouse Outreach, Atlanta, GA, USA, 2001-2002.

## 14 Athletic and Extracurricular Activities

- Certified scuba diver
- Active in running, cycling, hiking and skiing
- Student of trombone (since 1996) and piano (since 1990)

## 15 References

Professor S V (“Subu”) Subramanian, Professor of Population Health and Geography, Department of Social and Behavioral Sciences, Harvard School of Public Health (svsubram@hsph.harvard.edu)

Professor Koon Teo, Professor Department of Medicine (Cardiology), McMaster University (teok@mcmaster.ca)

Professor Michael Boyle, Professor, Department of Psychiatry and Behavioural Neurosciences, McMaster University (boylem@mcmaster.ca)

Professor George Davey Smith, Professor of Clinical Epidemiology, University of Bristol (KZ.Davey-Smith@bristol.ac.uk)

Professor Diego Bassani, Assistant Professor, The Hospital for Sick Children and Dalla Lana School of Public Health, University of Toronto (diego.bassani@sickkids.ca)