

Curriculum Vitae

COLIN ROBERTSON

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Research Interests

Spatial analysis, volunteered geographic information, spatial epidemiology, global health

Academic Positions

2011 – Assistant Professor, Wilfrid Laurier University
2010 – 2011 Lecturer, Wilfrid Laurier University

Publications

Recent Peer-reviewed Articles

- 2012 17. Long, J.A., Robertson, C., Nathoo, F.S., Nelson, T.A. *A Bayesian space-time model for discrete spread processes on a lattice*. Spatial and Spatio-temporal Epidemiology, **In Press**.
16. Munasinghe, N., Stephen, C., Robertson, C., and Abeynayake, P. *Farm level and geographic predictors of antibiotic use in Sri Lankan shrimp farms*. Journal of Aquatic Animal Health, **24**:22-29.
15. Nelson, T.A., and Robertson, C. *Refining spatial neighbourhoods to capture terrain effects*. Ecological Processes, **1**:3.
- 2011 14. Sawford, K., Robertson, C., Gunawardena, S., and Stephen, C., *Development and application of a framework for emerging infectious disease intelligence in low-to-middle income settings*. Journal of Bioterrorism and Biodefense, **S4**:001.
13. Robertson, C., Sawford, K., Gunawardena, S., Nelson, T.A., Nathoo, F. and Stephen, C. (2011) *A hidden markov model for analysis of frontline veterinary data for emerging zoonotic disease surveillance*. PLoS ONE, **6**:e24833
12. Robertson, C., Nelson, T.A., Stephen, C. (2011) *Spatial epidemiology of suspected clinical leptospirosis in Sri Lanka*. Epidemiology and Infection, **40**:731-43.
- 2010 11. Robertson, C., Sawford, K. Daniel, S.L.A., Nelson, T.A., Stephen, C. (2010) *Mobile Phone-based Infectious Disease Surveillance System, Sri Lanka*. Emerging Infectious Diseases, **15**:1524
10. Robertson, C., Nelson, T.A., MacNab, Y.C., Lawson, A.B. (2010) *Review of methods for space-time disease surveillance*. Spatial and Spatio-temporal Epidemiology, **1**:105-116.
9. Robertson, C., Nelson, T.A. (2010) *Review of software for space-time disease surveillance*. International Journal of Health Geographics, **9**:16.
- 2009 8. Nelson, T.A., Duffus, D., Robertson, C., Laberee, K. and Feyrer, L.J. (2009) *Spatial-temporal analysis of marine wildlife*. Journal of Coastal Research. Special Issue **56**:1537-1541.
7. Robertson, C., Nelson, T.A., Jelinski, D.E., Wulder, M.A. and Boots, B. (2009) *Spatial-temporal analysis of species' range expansion: the case of the mountain pine beetle, Dendroctonus ponderosae*. Journal of Biogeography, **36**(8):1446-1458.

6. Robertson, C., Farmer, C.J.Q., Nelson, T.A., Mackenzie, I.K., Wulder, M.A. and White, J.C.(2009) *Determination of the compositional change (1999-2006) in the pine forests of British Columbia due to mountain pine beetle infestation*. Environmental Monitoring and Assessment, **158**:593-608.

Recent Conference Presentations

- 2012 17. Robertson, C. Bivariate point pattern analysis of antimicrobial resistance in shrimp farms. Annual Meeting of the American Association of Geographers. Feb 24-28, New York, NY.
- 2011 16. Robertson, C., Sawford, K., Gunawardena, S., Nelson, T.A., Nathoo, F. and Stephen, C. Using hidden Markov models with participant-generated disease surveillance data. [POSTER] GEOMED 2011. October 20-22, Victoria, BC.
 15. Robertson, C., Long, J., Nelson, T.A., and Nathoo, F. (2011). Map comparison for the evaluation of spatial Bayesian models. GeoComputation. July 20-22, London, UK.
 14. Robertson, C. and Nelson, T.A. (2011). Evaluating ecologically constrained spatial weights matrices in hotspot analysis. Canadian Association of Geographers Annual Meeting and Conference. May 31- June 4, Calgary, AB.
 13. Robertson, C., Sawford, K., Stephen, C. and Nelson, T.A. (2011). Statistical analysis of emerging infections: quantifying patterns in frontline animal health surveillance data. Annual Meeting of the American Association of Geographers. April 12-16, Seattle, WA.
- 2010 12. Robertson, C. (2010). Statistical modelling of spatial and temporal patterns in frontline veterinary surveillance data. Teasdale-Corti Global Health Research Project Workshop. July 27, Peradeniya, Sri Lanka.
 11. Robertson, C., Nelson, T.A., MacNab, Y.C., Lawson, A.B. (2010). Review of methods for space-time disease surveillance. NICDS Workshop on Statistical Methods for Geographic and Spatial Data in the Management of Natural Resources. March 3-5, Montreal, QC.
- 2009 10. Robertson, C., Sawford, K., Stephen, C., Daniel, S.L.A., and Nelson, T.A. (2009) Infectious Disease Surveillance and Analysis - Sri Lanka.[POSTER] GEOMED 2009. November 14-16, Charleston, SC.
 9. Robertson, C., Farmer, C.J.Q., Nelson, T.A., Mackenzie, I.K., Wulder, M.A., and White, J.C. (2009) Assessing compositional change in pine forests of British Columbia during a mountain pine beetle epidemic. Annual Meeting of the American Association of Geographers. March 22-27, Las Vegas, ND.
 8. Robertson, C. Wulder, M.A., Nelson, T.A. and White, J.C. (2009) The effects of landscape pattern on mountain pine beetle spread. Spatial Knowledge and Information Conference. Feb 20-21, Fernie, BC

Research Grants

- 2011 – 2012 SSHRC Insight Development Grant, Geovisualization and uncertainty analysis of Volunteered Geographic Information, Principal Investigator, \$64,820