

MULTILEVEL AND SPATIAL MODELING

This is a partial listing of Multilevel and Spatial -related publications that appeared between 2000 and 2007.

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The publications are grouped by general themes (health; environment/natural resources; social sciences; economics/urban economics; methods). Note that publications can appear multiple times depending on substantive and methodological fit.

Health

Cancer

Davies, C. A. (2005). *Spatial multilevel modelling of cancer mortality in Europe*. Unpublished Dissertation, University of Glasgow.

Environmentally Induced Cancer

Klassen, A. C., Kulldorff, M., & Curriero, F. (2005). Geographical clustering of prostate cancer grade and stage at diagnosis, before and after adjustment for risk factors. *Int J Health Geogr*, 4(1), 1.

Public Health Analysis

Pampalon, R., Hamel, D., De Koninck, M., & Disant, M. J. (2007). Perception of place and health: differences between neighbourhoods in the Quebec City region. *Soc Sci Med*, 65(1), 95-111.

Chaix, B., Leyland, A. H., Sabel, C. E., Chauvin, P., Rastam, L., Kristersson, H., et al. (2006). Spatial clustering of mental disorders and associated characteristics of the neighbourhood context in Malmo, Sweden, in 2001. *J Epidemiol Community Health*, 60(5), 427-435.

Chen, J. T., Rehkopf, D. H., Waterman, P. D., Subramanian, S. V., Coull, B. A., Cohen, B., et al. (2006). Mapping and measuring social disparities in premature mortality: the impact of census tract poverty within and across Boston neighborhoods, 1999-2001. *J Urban Health*, 83(6), 1063-1084.

Chaix, B., Merlo, J., & Chauvin, P. (2005). Comparison of a spatial approach with the multilevel approach for investigating place effects on health: the example of healthcare utilisation in France. *J Epidemiol Community Health*, 59(6), 517-526.

Chaix, B., Merlo, J., Subramanian, S. V., Lynch, J., & Chauvin, P. (2005). Comparison of a spatial perspective with the multilevel analytical approach in neighborhood studies: the case of mental and behavioral disorders due to psychoactive substance use in Malmo, Sweden, 2001. *Am J Epidemiol*, 162(2), 171-182.

Moscone, F., & Knapp, M. (2005). Exploring the spatial pattern of mental health expenditure. *J Ment Health Policy Econ*, 8(4), 205-217.

Rezaeian, M., Dunn, G., St Leger, S., & Appleby, L. (2005). The ecological association between suicide rates and indices of deprivation in English local authorities. *Soc Psychiatry Psychiatr Epidemiol*, 40(10), 785-791.

Leyland, A. H., & Goldstein, H. (Eds.). (2001). *Multilevel modelling of health statistics*. Chichester ;; New York: Wiley.

Vector Born Parasites/infections

Barnes, T. S., Morton, J. M., & Coleman, G. T. (2007). Clustering of hydatid infection in macropodids. *Int J Parasitol*, 37(8-9), 943-952.

Werneck, G. L., Costa, C. H., Walker, A. M., David, J. R., Wand, M., & Maguire, J. H. (2007). Multilevel modelling of the incidence of visceral leishmaniasis in Teresina, Brazil. *Epidemiol Infect*, 135(2), 195-201.

Pollution (Air)

Pikhart, H., Bobak, M., Kriz, B., Danova, J., Celko, M. A., Prikazsky, V., et al. (2000). Outdoor air concentrations of nitrogen dioxide and sulfur dioxide and prevalence of wheezing in school children. *Epidemiology*, 11(2), 153-160.

Accident (Traffic Crash)

Yannis, G., Papadimitriou, E., & Antoniou, C. (2007). Multilevel modelling for the regional effect of enforcement on road accidents. *Accid Anal Prev*, 39(4), 818-825.

Mental Health

Fone, D. L., Dunstan, F., John, A., & Lloyd, K. (2007). Associations between common mental disorders and the Mental Illness Needs Index in community settings: Multilevel analysis. *Br J Psychiatry*, 191, 158-163.

Brain Research

Tatler, B. W., & Hutton, S. B. (2007). Trial by trial effects in the antisaccade task. *Exp Brain Res*, 179(3), 387-396.

Birth Defects

Messer, L. C., Kaufman, J. S., Dole, N., Herring, A., & Laraia, B. A. (2006). Violent crime exposure classification and adverse birth outcomes: a geographically-defined cohort study. *Int J Health Geogr*, 5, 22.

Asthma

Oyana, T. J., & Lwebuga-Mukasa, J. S. (2004). Spatial relationships among asthma prevalence, health care utilization, and pollution sources in neighborhoods of Buffalo, New York. *J Environ Health*, 66(8), 25-37, 44.

Environment and Land Use

Forestry

Vance, C., & Iovanna, R. (2006). Analyzing spatial hierarchies in remotely sensed data: Insights from a multilevel model of tropical deforestation. *Land Use Policy*, 23(3), 226-236.

Land Use Projection

Pan, W. K. Y., & Bilsborrow, R. E. (2005). The use of a multilevel statistical model to analyze factors influencing land use: a study of the Ecuadorian Amazon. *Global and Planetary Change*, 47(2-4), 232-252.

Pan, W. K.-Y. (2004). *Multilevel Spatial and Statistical Analyses to Examine the Relationship between Population and Environment: A Case Study of the Ecuadorian Amazon*. Unpublished Dissertation, U North Carolina, Chapel Hill.

Environment Justice

Veenstra, G., & Kelly, S. (2007). Comparing objective and subjective status: gender and space (and environmental justice?). *Health Place*, 13(1), 57-71.

Agriculture

Agricultural Production

Gianola, D., Perez-Enciso, M., & Toro, M. A. (2003). On marker-assisted prediction of genetic value: beyond the ridge. *Genetics*, 163(1), 347-365.

Economics and Business

Labor Market

Khattab, N. (2006). Ethnic and regional determinants of unemployment in the Israeli labour market: A multilevel model. *Regional Studies*, 40(1), 93.

Beggs, J. J., & Villemez, W. J. (2001). Regional Labor Markets. In J. J. Beggs & W. J. Villemez (Eds.), *Sourcebook of Labor Markets* (pp. 503-529). New York: Kluwer Academic/Plenum.

Market Modeling

Orford, S. (2000). Modelling spatial structures in local housing market dynamics: A multilevel perspective. *Urban Studies*, 37(9), 1643-1671.

Urban Planning and Community

Transportation

Paez, A., Scott, D., Potoglou, D., Kanaroglou, P., & Newbold, K. B. (2007). Elderly mobility: Demographic and spatial analysis of trip making in the Hamilton CMA, Canada. *Urban Studies*, 44(1), 123-146.

Community Planning

Caughy, M. O., Hayslett-McCall, K. L., & O'Campo P, J. (2007). No neighborhood is an island: Incorporating distal neighborhood effects into multilevel studies of child developmental competence. *Health Place*, 13(4), 788-798.

Mowbray, C. T., Woolley, M. E., Grogan-Kaylor, A., Gant, L. M., & et al. (2007). Neighborhood research from a spatially oriented strengths perspective. *Journal of Community Psychology*, 35(5), 667.

Crime

Taylor, R. B., Ratcliffe, J. H., Dote, L., & Lawton, B. A. (2007). Roles of neighborhood race and status in the middle stages of juror selection. *Journal of Criminal Justice*, 35(4), 391.

Politics/Election

Johnston, R., Jones, K., Propper, C., & Burgess, S. (2007). Region, local context, and voting at the 1997 general election in England. *American Journal of Political Science*, 51(3), 640-654.

Raleigh, C. (2007). *Civil war risk in democratic and non-democratic neighborhoods* (Post-conflict transitions working paper ;; no. 17; Policy research working paper ;; 4260). [Washington, D.C.]: World Bank, Development Research Group, Macroeconomics and Growth Team.

<http://econ.worldbank.org/external/default/main?pagePK=64165259&theSitePK=469382&piPK=64165421&menuPK=64166093&entityID=000016406%5F20070621100921>

Spatial Analysis/Statistics Issues

Methods/Modeling

Rasmussen, S. (2004). Modelling of discrete spatial variation in epidemiology with SAS using GLIMMIX. *Comput Methods Programs Biomed*, 76(1), 83-89.