

CURRICULUM VITAE

Peter A. Rogerson

University Address:

Department of Geography
Wilkeson Hall
State University of New York at Buffalo
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Education

State University of New York at Buffalo, Ph.D., 1982, Geography
Dissertation Title: Behavioral and Aggregate Approaches to Migration Modelling
University of Toronto, M.A., 1977, Geography
State University of New York at Albany, B.A., 1976, Geography and Mathematics, *summa cum laude*

Employment History

Adjunct Professor, Department of Biostatistics, 2003-present.

Professor, Department of Geography, State University of New York at Buffalo, 1990-present.

Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, CA, 1992-93.

Chair, Department of Geography, State University of New York at Buffalo, 1991-1994, 2007-2010.

Associate Professor, Department of Geography, State University of New York at Buffalo, 1986-1990.

Assistant Professor, Departments of Civil Engineering and Geography, Northwestern University, 1981-1986.

Research Associate for Special Project on Economic-Demographic Modelling, jointly sponsored by the American Statistical Association, the National Science Foundation, and the U.S. Bureau of the Census, Washington, D.C., 1980-1981.

Biostatistician for New York State Department of Health, Albany, New York, 1978.

Research Analyst for New York State Office of Parks and Recreation, Albany, New York, 1977-1978.

Honors and Awards

AAAS Fellow, 2012.
 Sustained Achievement Award, Exceptional Scholars Program, University at Buffalo, 2002.
 Guggenheim Fellowship, 1999-2000.
 Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford, CA, 1992-93.
 Presidential Young Investigator Award, National Science Foundation, 1986-1992.
 Invited "Young Researcher Guest" of the Quantitative Methods Group at the Institute of British Geographers' Annual Conference, 1985, Leeds.
 Voted "Civil Engineering Professor of the Year" by the American Society of Civil Engineers' Undergraduate Chapter, at Northwestern University, 1984.
 Warren J. Nystrom Award, Association of American Geographers, 1983.
 Winner, Regional Science Dissertation Competition, 1982.
 Dorothy S. Thomas Award from Population Association of America, 1982.
 Phi Beta Kappa member

Books

Rogerson, P. (Ed.) 2012. *Life on a Rocky Farm: Rural Life near New York City in the Late Nineteenth Century*. Albany: SUNY Press, forthcoming.

Rogerson, P. and Yamada, I. 2009. *Statistical Detection and Surveillance of Geographic Clusters*. Boca Raton, FL: CRC Press.

Fotheringham, A.S. and Rogerson, P.A. 2009. Eds. *Handbook of Spatial Analysis*. London: Sage Publications..

Rogerson, P. 2001. *Statistical Methods for Geographers*. London: Sage. (3rd ed. published in 2009).

Plane, D. and Rogerson, P. 1994. *The Geographical Analysis of Population: With Applications to Planning and Business*. New York: Wiley.

Fotheringham, A. S. and Rogerson, P. (Eds.) 1993. *Spatial Analysis and GIS*. London: Taylor and Francis.

Articles in Refereed Journals

98. Rogerson, P. 2012. Weight Estimation and Significance Testing for Three Focused Statistics. *Statistical Methods in Medical Research*, forthcoming.

97. Rogerson, P. and Plane, D. 2012. The Hoover Index of Population Concentration and the Demographic Components of Change: A Paper in Memory of Andy Isserman. *International Regional Science Review*, forthcoming.
96. Lin, Y.-H., Batta, R., Rogerson, P., Blatt, A., Flanigan, M., 2011. Location of temporary depots to facilitate relief operations after an earthquake. *Socioeconomic Planning Sciences*, forthcoming.
95. Wiecek, W.F., Delmerico, A.M., Rogerson, P., and Wong, D. 2011. Clusters in irregular areas and lattices. *Wiley Interdisciplinary Reviews: Computational Statistics*, 4: 67-74.
94. Lin, Y.-H., Batta, R., Rogerson, P., Blatt, A., Flanigan, M., and Lee, K. 2011. A logistics model for emergency supply of critical items in the aftermath of a disaster. *Socioeconomic Planning Sciences*, 45: 132-143.
93. Rogerson, P. and Kedron, P. 2011. Optimal geographic scales for Local Moran's I. *Geographical Analysis*, 44: 121-133.
92. Rogerson, P. 2011. Optimal geographic scales for local spatial statistics. *Statistical Methods in Medical Research*. 20: 119-129.
91. Silvan, J., Wang, L., Rogerson, P., Wu, T., Feng, T., and Kamphaus, B. 2010. Assessing fine spatial resolution remote sensing for small area population estimation. *International Journal of Remote Sensing*, 31,21: 5605-5634..
90. Erdemir, E.T., Batta, R., Rogerson, P.A., Blatt, A., and Flanigan, M. 2010. Joint ground and air emergency medical services coverage models: a greedy heuristic solution approach. *European Journal of Operations Research*, 736-749.
89. Akella MR, Delmelle EM, Batta R, Rogerson PA, and Blatt A. 2010. Adaptive cell tower location using geostatistics. *Geographical Analysis*, 42,3: 227-244..
88. Yamada, I., Rogerson, P., and Lee, G. 2009. *GeoSurveillance*: GIS-based monitoring system for detection of spatial clusters. *Journal of Geographical Systems*, 11,2: 155-173.
87. Akella, Rajan Batta, Moises Sudit, Peter Rogerson and Alan Blatt. 2008. Cellular network configuration with co-channel and adjacent channel interference constraints. *Computers and Operations Research*, 35, 12: 3738-3757.
86. Erdemir, ET, Batta, R, Spielman, S, Rogerson, P., Blatt, A., and Flanigan, M. 2008. Optimization of aeromedical base locations in New Mexico using a model that considers crash nodes and paths. *Accident Analysis and Prevention*, 40,3: 1105-1114.

85. Erdemir, ET, Batta, R, Spielman, S, Rogerson, P., Blatt, A., and Flanigan, M. 2008. Location coverage models with demand originating from nodes and paths: application to cellular network design. *European Journal of Operational Research* 190,3: 610-632.
84. Nie J, Beyea J, Bonner MR, Han D, Vena JE, Rogerson P, Vito D, Muti P, Trevisan M, Edge SB, and Freudenheim, JL. 2007. Exposure to Traffic Emissions throughout Life and Risk of Breast Cancer: The Western New York Exposures and Breast Cancer (WEB) Study. *Cancer Causes and Control*, 18: 947-955.
83. Bove, GE Jr., Rogerson, P, and Vena, JE. 2007. Case Control Study of the Effects of Trihalomethanes on Urinary Bladder Cancer Risk. *Archives of Environmental Health* 62,1: 39-47.
82. Bove, GE Jr., Rogerson, P, and Vena, JE. 2007. Case Control Study of the Geographic Variability of Exposure to Disinfectant Byproducts and Risk for Rectal Cancer. *International Journal of Health Geographics*, 6: 18 (29 May 2007).
81. Lee, G. and Rogerson, P. 2007. Monitoring Global Spatial Statistics. *Journal of Stochastic Environmental Research and Risk Assessment*. SpringerLink, Online First, 21, 5: 545-553.
80. Rogerson, P. and Kim, D. 2006. Population Distribution and Redistribution of the Baby Boom Cohort in the United States: Recent Trends and Implications. *Proceedings of the National Academy of Sciences*, 102, 43: 15319-15324.
79. Rogerson, P. 2006. Statistical Methods for the Detection of Spatial Clustering in Case-control Data. *Statistics in Medicine* 25: 811-823.
78. Rogerson, P. 2006. Formulas for the Design of CUSUM Quality Control Charts. *Communications in Statistics—Theory and Methods*, 35: 373-383.
77. Rogerson, P., Sinha, G., and Han, D. 2006. Recent Changes in the Spatial Pattern of Prostate Cancer in the United States. *American Journal of Preventive Medicine*, 30: S50-S59.
76. Delmelle, E., Rogerson, P., Akella, M. Batta, R., Blatt, A., and Wilson, G. 2005. A Spatial Model of Received Signal Strength Indicator Values for Automated Collision Notification Technology. *Transportation Research C*, 13: 432-447.
75. Han, D., Carrow, SS, Rogerson, PA, and Munschauer, FE. 2005. Geographical Variation in Cerebrovascular Disease in New York State: The Correlation with Income. *International Journal of Health Geographics* 4: 25.
74. Han, D, Rogerson, PA, Bonner, MR, Nie, J, Vena, JE, Muti, P, Trevisan, M, and Freudenheim, JL. 2005. Assessing Spatio-Temporal Variability of Risk Surfaces Using

- Residential History Data in a Case Control Study of Breast Cancer. *International Journal of Health Geographics*, Accessible at www.ij-healthgeographics.com/content/4/1/9.
73. Jacquez, G.M., Goovaerts, P.E., and Rogerson, P. 2005. Space-Time Intelligence Systems: Technology, Applications, and Methods. *Journal of Geographical Systems*, 7: 1-5.
 72. Bonner, MR, Nie, J, Han D, Vena, JE, Rogerson, P, Muti, P, Trevisan, M, Edge, S, and Freudenheim, JL. 2005. Secondhand Smoke Exposure in Early Life and the Risk of Breast Cancer. *Cancer Causes and Control*, 16,6: 683-689.
 71. Babcock, G., Talbot, T., Rogerson, P., and Forand, S. 2005. Use of CUSUM and Shewart Charts to Monitor Regional Trends of Birth Defects Reports in New York State. *Birth Defects Research (Part A)* 73: 668-677.
 70. Rogerson, P. 2005. A set of associated statistical tests for the detection of spatial clustering. *Ecological and Environmental Statistics*, 12, 3: 275-288.
 69. Bonner MB, Han D, Nie J, Rogerson P, Vena JE, Muti P, Trevisan M, Edge S, and Freudenheim JL. 2005. Breast Cancer Risk and Exposure in Early Life to Polycyclic Aromatic Hydrocarbons Using Total Suspended Particulates as a Proxy Measure. *Cancer Epidemiology, Biomarkers, and Prevention*, 14: 53-60 (pdf available by request).
 68. Rogerson, P. 2005. Monitoring Spatial Maxima. *Journal of Geographical Systems*. 7: 101-114.
 67. Akella, M., Batta, R., Delmelle, E., Rogerson, P., Blatt, A., and Wilson, G. 2005. Base Station Location and Channel Allocation in a Cellular Network with Emergency Coverage Requirements. *European Journal of Operations Research*, 164: 301-323.
 66. Rogerson, P. and Yamada, I. 2004. GeoSurveillance: Software for monitoring change in geographic patterns. *Lecture Notes in Computer Science* 3044, 1096-1104.
 65. Han, D., Rogerson, P., Nie, J., Bonner, M., Vena, JE, Vito, D., Muti, P., Trevisan, M., Edge, SB, and Freudenheim, JL. 2004. Clustering of Early Life Residential Locations Among Breast Cancer Cases. *Cancer Causes and Control*. 15,9: 921-929..
 64. Rogerson, P. and Yamada, I. 2004. Approaches to Syndromic Surveillance When Data Consist of Small Regional Counts. *Morbidity and Mortality Weekly Report*, 53 (Supplement): 79-85.
 63. Rogerson, P. and Yamada, I. 2004. Monitoring Change in Spatial Patterns of Disease: Comparing Univariate and Multivariate Cumulative Sum Approaches. *Statistics in Medicine*, 23: 2195-2214.

62. Rogerson, P., Delmelle, E., Batta, R., Akella, R., Blatt, A., and Wilson, G. 2004. Optimal Sampling Design for Variables With Varying Spatial Importance. *Geographical Analysis*, 36: 177-194.
61. Oyana, T.J., Rogerson, P., and Lwebuga-Mukasa, J.S. 2004. Geographic Clustering of Adult Asthma Hospitalization and Residential Exposure to Pollution Sites in Buffalo Neighborhoods at a U.S.-Canada Border Crossing Point. *American Journal of Public Health*, 94: 1250-1257.
60. Bonner, M.B., Han, D., Nie, J., Rogerson, P., Vena, J., and Freudenheim, J.L. 2003. Positional Accuracy of Geocoded Addresses in Epidemiologic Research, *Epidemiology*, 14: 408-412.
59. Rogerson, P. 2003. A Cumulative Sum Approach to Syndromic Surveillance in Geographic Regions (abstract). *Journal of Urban Health*, 80: (Supplement) 130.
58. Yamada, I. and Rogerson, P. 2003. An Empirical Comparison of Edge Effect Correction Methods Applied to *K*-Function Analysis. *Geographical Analysis*, 35: 97-109.
57. Akella, M.R., Bang, C., Beutner, R., Delmelle, E.M., Wilson, G., Blatt, A., Batta, R., and Rogerson, P. 2003. Evaluating the Reliability of Automated Collision Notification Systems. *Accident Analysis and Prevention*. 35: 349-360.
56. Rogerson, P. 2002. Change Detection Thresholds for Remotely Sensed Images. *Geographical Systems* 4: 85-97.
55. Rogerson, P. and Han, D. 2002. The Effects of Migration on the Detection of Disease Clusters. *Social Science and Medicine*, 55: 1817-28.
54. Rogerson, P. 2001. A Statistical Method for the Detection of Geographic Clustering. *Geographical Analysis*, 33: 215-27.
53. Rogerson, P. 2001. Monitoring Point Patterns for the Development of Space-time Clusters. *Journal of the Royal Statistical Society, Series A*, 164: 87-96.
52. Rogerson, P. and Sun, Y. 2001. Spatial Monitoring of Geographic Patterns: An Application to Crime Analysis. *Computers, Environment, and Urban Systems*, 25/6: 539-56.
51. Getis, A., Drummy, P., Gartin, J., Gorr, W., Harries, K., Rogerson, P., Stoe, D., Wright, R. 2000. Geographic Information Science and Crime Analysis. *URISA Journal*, 12:7-14.
50. Harwitz, M., Lentnek, B., Rogerson, P., and Smith, T. 2000. Optimal Search on Spatial Paths with Recall: II. Computational Procedures and Examples. *Papers in Regional Science*,

- 79: 293-306.
49. Rogerson, P. 1999. The Detection of Clusters Using A Spatial Version of the Chi-Square Goodness-of-fit Test. *Geographical Analysis*, 31: 130-47.
 48. Rogerson, P. and Yang, Z. 1999. The Effects of Spatial Population Distributions and Political Districting on Minority Representation. *Social Science Computer Review*, 17: 27-39.
 47. Rogerson, P. 1998. The Geography of Elderly Minority Populations in the United States. *International Journal of Geographic Information Systems*, 12: 687-98.
 46. Smith, T., Harwitz, M., Lentnek, B., and Rogerson, P. 1998. Optimal Search on Spatial Paths With Recall: I.Theoretical Foundations, *Papers in Regional Science*, 77: 301-27.
 45. Rogerson, P. and Plane, D. 1998. The Dynamics of Neighborhood Age Composition. *Environment and Planning A*, 30: 1461-72.
 44. Rogerson, P. 1997. Some Issues in Global Population Modeling. *Futures*, 29: 381-92.
 43. Rogerson, P. 1997. Surveillance Systems for Monitoring the Development of Spatial Patterns, *Statistics in Medicine*, 16: 2081-93.
 42. Rogerson, P., Burr, J., and Lin, G. 1997. Changes in Geographic Proximity Between Parents and Their Adult Children. *International Journal of Population Geography*, 3: 121-36.
 41. Rogerson, P. 1997. Estimating the Size of Social Networks. *Geographical Analysis*, 29: 50-63.
 40. Rogerson, P. 1997. Inconsistencies in League Standings. *Journal of Recreational Mathematics*, 28: 81-4.
 39. Rogerson, P. 1996. Elderly Population Growth in the United States During the Late 1980s. *Growth and Change*, 27: 75-95.
 38. Rogerson, P. 1996. A Generalization of Hewitt's Test for Seasonality. *International Journal of Epidemiology*, 25: 644-48.
 37. Rogerson, P. 1995. A Question of Balance. *International Regional Science Review*, 18: 219-222.
 36. Lin, G. and Rogerson, P. 1995. Elderly Parents and the Geographic Availability of Their Adult Children. *Research on Aging*, 17: 303-31.
 35. Rogerson, P. 1994. On the Relationship Between Handedness and Season of Birth For Men.

- Perceptual and Motor Skills*, 79: 499-506.
34. Rogerson, P. and Fotheringham, A.S. 1994. Spatial Analysis and GIS: Introduction. *Geographical Systems*, 1: 175-77.
 33. Rogerson, P., Weng, R., and Lin, G. 1993. The Spatial Separation Between Parents and Their Adult Children. *Annals of the Association of American Geographers*, 83: 656-71.
 32. Rogerson, P. 1993. On the Relationship Between Handedness and Longevity. *Social Biology* 40: 283-87.
 31. Fotheringham, A. S. and Rogerson, P. 1993. GIS and Spatial Analytic Problems. *International Journal of Geographical Information Systems*, 7,1: 3-19.
 30. Rogerson, P. 1993. A Maximum Likelihood Estimator for the Intervening Opportunities Model. *Transportation Research*, 27B: 275-80.
 29. Plane, D. and Rogerson, P. 1991. Tracking the Baby Boom, Baby Bust, and Baby Boom Echo: Implications of Shifting Age Composition for U.S. Mobility and Migration, *The Professional Geographer*, 43: 416-30.
 28. Rogerson, P. 1991. The Effects of Sex Preselection on the Sex Ratio of Families, *Journal of Heredity*, 82: 239-43.
 27. Rogerson, P. 1990. Introduction to special issue on The Demography of Aging. *Research on Aging*, 12: 395-98.
 26. Jackson, R., Rogerson, P., Plane, D., and O'hUallachain, B. 1990. A Causative Matrix Approach to Interpreting Structural Change. *Economic Systems Research* 2: 261-70.
 25. Rogerson, P. 1990. Buffon's Problem with a Square Grid and Medium Size Needle. *American Mathematical Monthly*, Advanced problem section, 97: 929-30.
 24. Rogerson, P. 1990. Buffon's Needle and the Estimation of Migration Distances. *Mathematical Population Studies* 2: 229-38.
 23. Rogerson, P. 1990. Spatial Search for the Lowest Price. *Geographical Analysis* 22: 336-47.
 22. Rogerson, P. 1990. Migration Analysis Using Data With Time Intervals of Differing Widths. *Papers of the Regional Science Association* 68: 97-106.
 21. Rogerson, P. 1988. Alternative Strategies for Selling Land to the Highest Bidder. *Environment and Planning A*, 20: 817-28.

20. Rogerson, P. 1988. Reply to a comment by Joel Horowitz on Alternative Strategies for Selling Land to the Highest Bidder. *Environment and Planning A*, 20: 832.
19. Lin, Yann-Jou, Peterson G., and Rogerson, P. 1988. A Nested Urban Recreation Site Choice Model. *Leisure Sciences*, 10: 1-15.
18. Rogerson, P. 1987. Changes in U.S. Mobility Levels. *The Professional Geographer*, 39: 344-51.
17. Rogerson, P. 1987. Probabilities of Choosing Applicants of Arbitrary Rank in the Secretary Problem. *Journal of Applied Probability*, 24: 527-33.
16. Rogerson, P. 1986. Parameter Estimation in the Intervening Opportunities Model. *Geographical Analysis*, 18: 357-60.
15. Plane, D. and Rogerson, P. 1986. Dynamic Flow Modeling with Interregional Dependency Effects: An Application to Structural Change in the U.S. Migration System. *Demography*, 23: 91-104.
14. Rogerson, P. 1985. Disequilibrium Adjustment Processes and Chaotic Dynamics. *Geographical Analysis*, 17: 185-98.
13. Plane, D. and Rogerson, P. 1985. Economic/Demographic Models for Forecasting Interregional Migration," *Environment and Planning A*, 17: 185-98.
12. Isserman, A., Plane, D., Rogerson, P., and Beaumont, P. 1985. Forecasting Interstate Migration in the United States with Limited Data. *Journal of the American Statistical Association*, 80: 277-85.
11. Rogerson, P. and Plane, D. 1984. Modelling Temporal Change in Flow Matrices. *Papers of the Regional Science Association*, 54: 147-64.
10. Rogerson, P. 1984. New Directions in the Modeling of Interregional Migration. *Economic Geography*, 60: 111-21.
9. Rogerson, P. 1984. The Demographic Consequences of Metropolitan Population Deconcentration in the United States. *The Professional Geographer*, 36: 307-14.
8. Plane, D., Rogerson, P., and Rosen, A. 1984. The Cross Regional Variation of In-Migration and Out-Migration. *Geographical Analysis*, 16: 162-75.
7. Pickles, A. and Rogerson, P. 1984. Wage Distributions and Spatial Preferences in Competitive Job Search and Migration. *Regional Studies*, 18: 131-42.

6. Rogerson, P. 1983. Comparisons of Aggregate Variable Forecasts Using Aggregate and Disaggregate Models. *Socio-economic Planning Sciences*, 17: 373-80.
5. Rogerson, P. and MacKinnon, R. 1982. Interregional Migration Models with Source and Interaction Information. *Environment and Planning A*, 14: 445-54.
4. Rogerson, P. 1982. Spatial Models of Search. *Geographical Analysis*, 14: 217-28.
3. Rogerson, P. and MacKinnon, R. 1981. A Geographical Model of Job Search, Migration, and Unemployment. *Papers of the Regional Science Association*, 48: 89-102. Reprinted in *Regional Housing and Labour Markets*. Ed. M.M. Fischer. Series on Modern Classics in Regional Science. 1996. London: Elgar Publishing.
2. MacKinnon, R. and Rogerson, P. 1980. Vacancy Chains, Information Filters, and Interregional Migration. *Environment and Planning A*, 12: 649-58.
1. Rogerson, P. 1979. Prediction: A Modified Markov Chain Approach. *Journal of Regional Science*, 19: 469-78.

Other Refereed Publications

- Counting people in the information age: new approaches to the Census for 2000 and beyond. 1994. Panel to Evaluate Alternative Census Methods, Committee on National Statistics, Commission on Behavioral and Social Sciences in Education, National Research Council.
- A census that mirrors America. 1993. Interim report of the Panel to Evaluate Alternative Census Methods, Committee on National Statistics, Commission on Behavioral and Social Sciences in Education, National Research Council.

Articles in Nonrefereed Publications

- Rogerson, P. 1997. Why America is Forever Young. *Forecast* (published by American Demographics), January issue (third person report on research).
- Rogerson, P. 1990. Dots in Star Atlases. *Sky and Telescope* 80: 462.
- Rogerson, P. 1989. Forecasting Facility Demand and Distribution. *Younth Geographer*. 2, 1: 11-17 (in Chinese).
- Rogerson, P. and Plane, D. 1985. Monitoring Recent Trends in Population Redistribution in the United States. *American Demographics*, February, 1985, 23-27.
- Anderson, R., Rogerson, P., and Bartlett, W. 1978. Recreation Demand. In *Statewide Comprehensive Recreation Plan*, New York State Office of Parks and Recreation.

Articles in Conference Proceedings

9. Rogerson, P., Trivedi, M., and Bagchi-Sen, S. 2006. Cumulative sum methods for spatial surveillance. Proceedings of the Joint Statistical Meetings, Seattle, 2006.
8. Rogerson, P. and Yamada, I. 2004. GeoSurveillance: software for monitoring changes in geographic patterns. *Lecture Notes in Computer Science: Computational Science and its Applications – ICCSA 2004*. 3044: 1096-1106.
7. Rogerson, P. and Yamada, I. 2004. Alternative approaches for syndromic surveillance when data consist of small regional counts. Proceedings of the Joint Statistical Meetings, San Francisco, CA, August, 2003..
6. Rogerson, P. 1992. A Nonparametric Test for Pattern Detection and its Use in GIS.

Proceedings, GIS/LIS '92, 2: 646-51.

5. Rogerson, P. and Tromvoukis, L. 1984. The Relation Between Forecast Error and Aggregation Level in Markovian Models of Movement. *Modeling and Simulation*, edited by W. Vogt and M. Mickle, 15: 433-38.
4. Beaumont, P., Isserman, D., Plane, D., Rogerson, P., and McMillen, D. 1982. The ECESIS Economic-Demographic Interregional Model of the United States. *American Statistical Association, Proceedings of the Social Statistics Section*, 429-32.
3. Rogerson, P. 1982. Job Search and Competition. *Modeling and Simulation*, edited by W. Vogt and M. Mickle, 13: 1039-44.
2. Rogerson, P. 1980. Ridge Regression and its Use in Geography. *Proceedings of the Middle States Division of the Association of American Geographers*, 11-16.
1. Rogerson, P. 1979. Dynamic Migration Modelling. *Proceedings of the Middle States Division of the Association of American Geographers*, 36-40.

Contributions to Books

22. Lee, G., Yamada, I., and P. Rogerson. 2009. *GeoSurveillance: A GIS-based exploratory spatial analysis tool for monitoring spatial patterns and clusters*. In *Handbook of Applied Spatial Analysis*. Eds. M. Fischer and A. Getis. Berlin: Springer-Verlag, pp. 171-177.
21. Rogerson, P. 2010. Health surveillance around prespecified locations using case-control data. *Perspectives on spatial data analysis*. Eds. L. Anselin and S. Rey. Berlin: Springer. 181-188.
20. Rogerson, P. 2009. Monitoring changes in spatial patterns. *Handbook of Spatial Analysis*, Eds. A.S. Fotheringham and P.A. Rogerson. London: Sage Publications. 343-354.
19. Rogerson, P. 2005. Spatial Surveillance and Cumulative Sum Methods. In *Spatial and Syndromic Surveillance for Public Health*. Eds. K. Kleinman and A. Lawson. 95-114.
18. Rogerson, P. 2005. A System for the Monitoring of Crime in Small Areas. In *Geographic Information Systems and Crime Analysis*. Ed. F. Wang, Hershey, PA: Idea Group Publishing, pp.153-170.
17. Rogerson, P. 2004. The Statistical Significance of the Maximum Local Statistic. In *Spatial Econometrics and Spatial Statistics*. pp. 250-264. Eds. A. Getis, Jesus Mur, and Henry Zoller. New York: Palgrave Macmillan Press.

16. Rogerson, P. 2004. The Application of New Spatial Statistical Methods to the Detection of Geographical Patterns of Crime. *Applied GIS and Spatial Analysis* Eds. J. Stillwell and G. Clarke. West Sussex, England: John Wiley and Sons. pp. 151-168.
15. Rogerson, P. 2004. Spatial sampling. In *Encyclopedia of Social Measurement*. Volume 3. 633-638. Elsevier Press.
14. Han, D. and Rogerson, P. 2003. Application of a GIS-Based Statistical Method to Assess Spatio-temporal Changes in Breast Cancer Clustering in the Northeastern United States. In *Geographic Information Systems and Health Application*, Eds. Omar Khan and Ric Skinner. 114-138.
13. Gopal, S., Legates, D., and Rogerson, P. 2003. Mathematical Models and Quantitative Methods. In *Geography in America at the Dawn of the 21st Century*, edited by G. Gaile and C. Willmott. Oxford: Oxford University Press. pp. 442-457.
12. Mark, D., Egenhofer, M.J., Bian, L., Hornsby, K.E., Rogerson, P.A., and Vena, J. 2000. Spatiotemporal GIS analysis for environmental health: solutions using geospatial lifelines. In *Geography and medicine: GEOMED '99*. Eds. A. Flahaut, L. Toubiana, and A.J. Valleron. Paris: Elsevier. pp. 65-78.
11. Rogerson, P. 2000. The Monitoring of Point Incidents Around a Fixed Location. In *Geography and medicine: GEOMED '99*. Eds. A. Flahaut, L. Toubiana, and A.J. Valleron. Paris: Elsevier. pp. 18-27.
10. Rogerson, P. 1999. Geography of the Baby Boom Cohort. In *Migration and Restructuring in the United States*. Edited by K. Pandit and S. D. Withers, Oxford: Rowman and Littlefield: 174-92.
9. Rogerson, P. 1997. A Spatial Version of the Chi-Square Goodness-of-Fit Test and its Application to Tests for Spatial Clustering. In *Advances in Spatial Modeling and Methodology*, edited by C. Amrhein, D. Griffith, and J. Huriot. Dordrecht: Kluwer: 71-84.
8. Rogerson, P. and Fotheringham, A.S. 1994. GIS and Spatial Analysis: Introduction and Overview. In *Research Directions in GIS and Spatial Analysis*, edited by A. S. Fotheringham and P. Rogerson. London: Taylor and Francis, 1-10.
7. Plane, D., and Rogerson, P. 1991. The Ten Commandments of Migration Research. In *Retrospect and Prospect in Regional Science*, edited by D. Boyce, P. Nijkamp, and D. Shefer. New York: Springer-Verlag, 15-42.
6. Odland, J., Golledge, R., and Rogerson, P. 1989. Mathematical and Statistical Analysis in Human Geography. In *Geography in America*, edited by G. Gaile and C. Willmott.

Columbus: Merrill, 719-45.

5. Plane, D. and Rogerson, P. 1989. U.S. Migration Pattern Responses to the Oil Glut and Recession of the Early 1980s: an Application of Shift-share and Causative Matrix Techniques. In *Advances in Regional Demography*, edited by P. Congdon and P. Batey, Belhaven Press, 258-80.
4. Rogerson, P. 1987. Competition Among Applicants for Job Openings. In *Regional Labour Markets*, edited by M. Fischer and P. Nijkamp, Amsterdam: North-Holland, 229-45.
3. Beaumont, P., Isserman, A., McMillen, D., Plane, D., and Rogerson, P. 1986. The ECESIS Economic-Demographic Interregional Model of the United States. In *Population Change and the Economy*, edited by A. Isserman. Boston: Kluwer-Nijhoff, 203-38.
2. Rogerson, P. 1983. The Effects of Job Search and Competition on Unemployment and Vacancies in Regional Labor Markets. In *Evolving Geographical Structures*, edited by D. Griffith and A. Lea, The Hague: Martinus Nijhoff, 349-71.
1. MacKinnon, R. and Rogerson, P. 1981. Perspectives on Information Sensitive Models of Migration. In *Dynamic Spatial Models*, edited by D. Griffith and R. MacKinnon, Alphen aen den Rijn, the Netherlands: Sijthoff and Noordhoff 67-87.

Book and Software Reviews

12. Multiregional Demography, by Andrei Rogers. *The Professional Geographer*, 1996, 48: 478-79.
11. Elderly Migration and Population Redistribution, edited by A. Rogers. London: Belhaven Press. *Annals of the Association of American Geographers*, 1993.
10. Frontiers of Input-Output Analysis, edited by R. Miller, K. Polenske, and A. Rose. Oxford: Oxford University Press. *Journal of Regional Science*, 1990, 30: 570-72.
9. Geographical Systems and Systems of Geography, edited by W. Coffey. London, Ontario: University of Western Ontario, Department of Geography. *Journal of Regional Science*, 1989, 277-79.
8. Integrated Analysis of Regional Systems, edited by P. Batey and M. Madden. London: Pion. *Annals of Regional Science*, 1987.
7. Migration and Settlement: A Multiregional Comparative Study, edited by A. Rogers and F. Willekens. Boston: D. Reidel. *Geographical Analysis*, 19, (1987), 376-77.

6. Software Packages for Population Analysis on Microcomputers with PC-DOS or MS-DOS. *The Professional Geographer*, 39, (1987), 484-485.
5. Urban Evolution: Studies in the Mathematical Ecology of Cities, by Dimitrios Dendrinos with Henry Mullally. Cambridge: Cambridge University Press. *Transportation Science*, (1987).
4. Gauss for the IBM PC. *The Professional Geographer*, 1987, 39: 87-88.
3. Integrated Forecasting in Strategic Planning Practice, edited by P. Batey and M. Madden. *Annals of Regional Science*, 1986.
2. Spatial Models and Spatial Statistics, edited by G. Gaile and C. Willmott. Boston: Reidel. *Journal of Regional Science*, 25, 1985.
1. Geographic Living-Cost Differentials, by Richard J. Cebula. Lexington, MA: Lexington Books. *Economic Geography*, 1984, 89-90.

Unpublished Discussion Papers and Reports

Rogerson, P. and Fotheringham, A. S. 1992. GIS and Spatial Analysis: Report on the Specialist Meeting. Buffalo: National Center for Geographic Information and Analysis, Report 92-11.

Rogerson, P. Some Thoughts on Research Directions in Economic Geography. Invited comments prepared for the workshop on "Structure, Structuration, and the Post-Fordist Matrix Multiplier", Phoenix, Arizona, April, 1988.

Rogerson, P. and Stack, R. Demographic Changes in the Metropolitan Areas of the Great Lakes. Occasional Paper Number 87-2, Great Lakes Program, State University of New York at Buffalo, May, 1987.

Rogerson, P. Forecast of Illinois Housing Demand, 1980-2000. Submitted to the Governor's Office of Planning, State of Illinois, August, 1985.

Rogerson, P. Research Priorities and Infrastructure Needs. Prepared for the Association of American Geographers, July, 1985.

Rogerson, P. Aggregate Approaches to Migration Modelling. Prepared for the Warren J. Nystrom Award Session of the Association of American Geographers, 1983.

Rogerson, P. Job Turnover and Interregional Migration. ASA/Census Working Paper 5, The Institute of Urban and Regional Research, University of Iowa, 1982.

Rogerson, P. Extending the Markov Model: The Use of Differential Stationarity. Discussion Paper 24, Department of Geography, University of Toronto, 1978.

Grant Support

Optimal Spatial Weighting for Assessing Local Spatial Statistics, National Science Foundation, September, 2010 – February, 2013, \$182,104.

Geographic Tools for Surveillance and Study of Disease, September, 2001-August, 2004, \$927,454 (with Dan Wartenberg (PI) and Andrew Lawson). National Institutes of Health. Subcontract to Buffalo: \$225,000.

Methods for Monitoring of Spatial Patterns, National Science Foundation, July, 15, 1999-July 14, 2001, \$93,763.

Spatio-temporal GIS Analysis for Environmental Health, National Institute of Health, June 1, 1999-May 31, 2003, \$1,600,000. (David Mark, Principal Investigator; other co-PIS: Ling Bian, John Vena, and Max Egenhofer).

Detection and Prediction of Geographical Changes in Crime Rates, National Institute of Justice, January, 1999- December, 2000, \$221,520 (with Rajan Batta and Christopher Rump).

Transportation Database Design, Center for Transportation Injury Research, Calspan-UB Research Center (with Rajan Batta), November, 1998-September, 1999, \$40,052.

Crime Analysis in GIS, National Institute of Justice and Environmental Systems Research Institute, \$180,000, January, 1998- June, 1999. (subcontract to University at Buffalo through ESRI; Ezra Zubrow, Principal Investigator).

Automated Collision Network, Calspan-UB Research Center (with Rajan Batta), \$28,000, 1996-97.

Minority Aging in a Diverse Society: Community, Family, and Individual Determinants of Living Arrangements, Administration on Aging, \$134,227, 1996-97 (with Jan Mutchler and Jeffrey Burr).

Geographical and Sociological Models of Intergenerational Relations, National Science Foundation, \$65,860, 1994-95 (with Jeffrey Burr and Jan Mutchler).

School Enrollment Projections for Barker Central Schools, \$3,000, 1990 (with Hugh Calkins).

Demography of Aging. SUNY Conferences in the Disciplines, \$2,300, 1989-1990 (with Jeffrey Burr, Jan Mutchler, and Ezra Zubrow).

Demographic and Economic Trends and Prospects in Erie and Niagara Counties. New York State Great Lakes Program, October, 1986 - April, 1987, \$2,700.

Presidential Young Investigator Award, National Science Foundation, June, 1986-January, 1993, \$195,113.

Forecast of Housing Needs for the State of Illinois, May-October, 1985, Illinois Office of the Governor, \$12,000 (with Alex Anas).

Labor Market Competition Processes and their Effects on Migration and Unemployment. National Science Foundation, April, 1985 - March, 1986, \$32,352.

Modeling Economic-Demographic Processes. National Science Foundation, July, 1983 - June, 1984, \$32,851.

The Demographics of Deconcentration. Northwestern University, May, 1983 - April, 1984, \$1,200.

Editorial Activity

Editorial Board, *Spatial and Spatio-temporal Epidemiology*, 2009-present.

Editorial Board, *Professional Geographer*, 2009-2010.

Editorial Board, *Geographical Analysis*, unknown – present.

Editorial Board, *Annals of the Association of American Geographers*, 1993-2000.

North American Editor, *Papers in Regional Science*, 1989-1991.

Co-Editor, *Papers of the Regional Science Association*, 1984-1989.

Editorial Board, *International Regional Science Review*, 1985-present.

Guest Editor, special issue of *Research on Aging* on the Demography of Aging, 1990.

Service to National Scientific Organizations

Member, Advisory Board, Long Island Breast Cancer Study Project, Brookhaven National Laboratory.

National Academy of Sciences, Committee on National Statistics. Member of Panel to Evaluate Alternative Census Methods, 1992-94.

National Science Foundation, member of Biological, Behavioral, and Social Sciences Task Force Looking to the 21st Century, 1990.

National Science Foundation, member of Geography and Regional Science Panel, 1994-1996, 2010-2012.

National Science Foundation, member of Measurement, Methods, and Statistics Panel, 1997-present.

Professional Memberships and Activities

Association of American Geographers

Judge for Student Paper Competition, West Lakes Division, 1985.

Councillor, Population Specialty Group, 1987-1990.

Coordinator of Population Specialty Group sessions, 1986-88.

Co-organizer or organizer of six sessions for the Quantitative Methods and Mathematical Models Specialty Group, 1983-1987.

Regional Science Association

Co-organizer of 13 sessions for the 1988 annual meeting.

Population Association of America

Member of Dorothy S. Thomas Award Committee, 1988-present.

Organizer and chair of session on Internal Migration in the U.S., 1989.

Chair of session on Internal Migration, 1990.

Community Service

Clarence Central School District, Enrollment Projections, 1995-96.

Frontier Central School District, Enrollment Projections, 1994.

Williamsville School District, Five-Year Enrollment Projections, 1993.

Amherst School District, Report on Kindergarten Enrollment Projections, January, 1994.

Barker School District, Enrollment Projections, 1990.

Radio Broadcast, National Public Radio, Spatial Separation Between Parents and Their Adult Children. April, 1992.

Amherst School District Committee on Enrollment Projections and Resource Allocation, 1991-92.

Regional Economic Policy and Analysis Group, Erie and Niagara Counties Regional Planning Board

Advisor to Buffalo of Chamber of Commerce Subcommittee on Demographics, Summer, 1987

Advisor to Judith Albino, chair of the Facilities Review Committee for Smallwood and Windemere Schools, 1989.

Radio Broadcast on WJYE-FM, Consequences of the Baby Boom. 1989.

University Service

Search Committee: Dean of the School of Health and Health-Related Professions (2008)

Presidential Review Board (appointments and promotions) 2005-2007

Dean's Search Committee, 1998.

Commencement Marshal, 1987-1988; 1990-1992, 1994-1997.

Reviewer for proposal submitted to Sponsored Programs Administration, 1987.

Freshman Honors Program Mentor, 1986-88.

Member, Field Studies Committee, 1982-1986.

Faculty Associate, College of Community Studies, 1981-1986.

Faculty Service

Faculty of Social Sciences Personnel Committee, 1995-97.

Search Committee, Economics chair, 1990.

National Center for Geographic Information and Analysis Committee, 1988-present.

Faculty of Social Sciences Policy Committee, 1986-89.

Committee on Adaptations to Special Populations, Graduate Research Initiative

Committee on Effecting Social and Economic Change in Western New York

Search Committee, Canadian Studies Program Director

Search Committee, secretary, Organized Research Center

Search Committee, technician, Organized Research Center

Member, Committee on the Urban Studies Program, 1984-1986.

Member, Council on Urban and Regional Planning, 1981-1986.

Member, Committee on Curriculum and Academic Affairs, Council on Urban and Regional Planning, 1981-1986.

Freshman Advisor, Technological Institute, 1983-1986.

Departmental Service

Department Chair, 1991-94, 2007-2010.

Geographic Information and Analysis Lab Policy Committee, 1988-92.

Director of Undergraduate Studies, 1987-1991; 1994-2006.

Graduate Program Secretary, Department of Geography, 1982-1986.

Faculty Secretary, Department of Civil Engineering, Fall Quarters, 1981-1986.

Courses Taught

Introduction to Human Geography

Contemporary Urban Issues

Introduction to City and Regional Planning

Uncertainty Analysis

Regional Population Analysis

Computer Analysis of Geographic Data

Matrix Methods in Urban and Regional Planning

Multivariate Statistical Analysis in Planning and Transportation

Mathematical Models in the Social and Behavioral Sciences

Recent Population Change in the United States (Freshman Honors course)

Methods of Regional Analysis

Graduate Seminar in Search Theory

Research Design

Univariate Statistics in Geography

Multivariate Statistics in Geography
 Geography of Health
 Spatial Statistics

Research Supervision

Ph.D.

Yann-Jou Lin
 Leonidas Tromvoukis
 Timothy Pitts
 Richard Weng
 Ge Lin
 Paul Mackun
 Jianguo Wang
 Valerie Yakich (withdrew)
 Daikwon Han
 Yifei Sun
 Tonny Oyana
 Eric Delmelle
 Gerald Bove
 Daejong Kim
 Gyoungju Lee
 Seth Spielman
 Eunjung Lim
 William Poppe
 Hoe Hun Ha
 Sol Hyon Baek (in progress)
 Haithem Ben Ab-Jallah
 William Trask (in progress)

Master's

Suhail Sanyour
 Laura Shaffer
 Janet Nutting
 Kenneth Richards
 Juan Avendano
 Frank Hobrecht
 James Williams
 Dan Moffe
 Keith Tryon
 James Coyle
 Elizabeth Eisenhauer
 Marc Adel
 Elizabeth Watz
 Clifton Lollar
 Kasim Khan
 Jon Goergen

Presentations at Conferences (presenter underlined for multiple author cases)

151. Rogerson, P. and Kedron, P. A Simple Adjustment for Testing Local Statistics Across Many Scales. Annual Meeting of the Association of American Geographers, New York, NY, February, 2012.
150. Ha, H., Rogerson, P., Olson, J., and Bian, L. Geographic variation of soil lead concentrations in Anniston, Alabama. Annual Meeting of the Association of American Geographers, New York, NY, February, 2012.

149. Rogerson, P. and Plane, D. The Hoover Index of Population Concentration and the Demographic Components of Change: A Paper in Memory of Andy Isserman. Western Regional Science Association, Poipu, Hawaii, February, 2012.
148. Rogerson, P. and Plane, D. The Hoover Index of Population Concentration and the Demographic Components of Change: A Paper in Memory of Andy Isserman. North American Regional Science Meeting, Miami, FL, November, 2011.
147. Rogerson, P. and Plane, D. The Hoover Index of Population Concentration and the Demographic Components of Change: A Paper in Memory of Andy Isserman. Meeting and session in honor of Andrew Isserman, Urbana, IL, November, 2011.
146. Rogerson, P. Scale estimation and significance testing for three focused statistics. GEOMED, Victoria, B.C., October, 2011.
145. Rogerson, P. Comments for the session in honor of Andrew Isserman. Association of American Geographers, Seattle, WA, April, 2011.
144. Lim, E. and Rogerson, P. Detecting a sequence of changes in multiple patterns based on a nonparametric CUSUM. Association of American Geographers, Seattle, WA, April, 2011.
143. Wieczorek, W.F., Delmerico, A. Rogerson, P., and Wong, D. Comparison of clustering of lattice and census-based neighborhood areas. Association of American Geographers, Seattle, WA, April, 2011.
142. Rogerson, P. and Kedron, P. Optimal weights for the local Moran statistic. Association of American Geographers, Seattle, WA, April, 2011.
141. Rogerson, P. Internal migration in the United States, 1870-1880. Association of American Geographers, Seattle, WA, April, 2011.
140. Rogerson, P. and Kedron, P. Optimal weights for the local Moran statistic. Western Regional Science Association, Monterey, CA, February, 2011.
139. Olson, J., Bian, L., Rogerson, P., and Ha, H. Spatial Distribution and Determinants of PCB Contamination in Residential Soil in Anniston, Alabama. 2010 Dioxin Annual Meeting, San Antonio, TX, September, 2010.
138. Olson, J., Bian, L., Rogerson, P., and Ha, H. Soil-Serum PCB Associations in the Anniston Community Health Survey. Dioxin Annual Meeting, San Antonio, TX, September, 2010.
137. The estimation and distribution of cluster sizes. Workshop on Cluster Morphology,

- Biomedware, Ann Arbor, MI, April, 2010.
136. Rogerson, P. Optimal geographic scales for local spatial statistics. Association of American Geographers, Washington, DC, April, 2010.
 135. Ha, H., Bian, L., Rogerson, P., and Olson, J. Levels of PCBs and Metals in Soils in an Area with Chemical Industries. Annual Meeting of the Association of American Geographers, Washington, DC, April, 2010.
 134. Lin, Y-H., Batta, R., Rogerson, P.A., Blatt, A., and Flanigan, M. A Logistics Model for Delivery of Prioritized Items in a Humanitarian Relief Effort. 2010 Conference on Health and Humanitarian Logistics, Atlanta, March 4-5.
 133. Rogerson, P. Optimal geographic scales for local spatial statistics. Regional Science Association, San Francisco, CA, November, 2009.
 132. Lin, Y-H., Batta, R., Rogerson, P., Blatt, A., and Flanigan, M. Humanitarian relief logistics in a disaster scenario: a case study. Institute of Industrial Engineering Annual Conference, Miami, FL, June, 2009.
 131. Ha, H., Rogerson, P., Bian, L., and Olson, J. Spatial Modeling of Soil PCB Levels in Anniston, Alabama. Annual Meeting of the Association of American Geographers, Las Vegas, NV, March, 2009.
 130. Rogerson, P. 2008. Statistical methods for spatial surveillance. Workshop presenter at the International Society for Disease Surveillance, Raleigh, North Carolina, November, 2008.
 129. Lin, Y.-H., Batta, R., and Rogerson, P., Blatt, A., and Flanigan, M. Delivery of critical items in a disaster relief operation. INFORMS, Washington, DC, October, 2008.
 128. Rogerson, P. 2008. Detecting Spatial Clusters in Case-Control Data. Association of American Geographers, Boston, MA, April, 2008.
 127. Rogerson, P. Multiregional Cumulative Sums for Small Count Data. International Biometric Society. Pisa, Italy. June, 2007.
 126. Rogerson, P., Lee, G., and Yamada, I. *GeoSurveillance*: Monitoring temporal change in spatial patterns. Association of American Geographers, San Francisco, CA, April, 2007.
 125. Tokar, E., Batta, R., Blatt, A., Flanigan, M., Rogerson, P., and Spielman, S. Performance evaluation for current aeromedical base locations of New Mexico with managerial insights. INFORMS, Pittsburgh, November, 2006.

124. Tokar, E., Batta, R., and Rogerson, P. Location coverage models with demand originating from nodes and paths. Regional Science Association, Toronto, Canada, November, 2006.
123. Rogerson, P. Multiregional CUSUM surveillance. Syndromic Surveillance Conference, Baltimore, MD, October, 2006.
122. Rogerson, P. Cumulative sum methods for spatial surveillance. Joint Statistical Meetings, Seattle, WA, August, 2006.
121. Nie, J., Beyea, J., Bonner, M., Han, D., Vena, J., Rogerson, P., Vito, D., Muti, P., Trevisan, M., Shields, P., and Freudenheim J. Traffic Polycyclic Aromatic Hydrocarbons (PAHs) Genetic Susceptibility and Risk of Breast Cancer. 3rd International Congress on Developmental Origins of Health & Disease (DOHaD), November, 2005.
120. Rogerson, P. Some statistical methods for the detection of cluster in case-control data. GEOMED '05. Cambridge, England, September, 2005.
119. Rogerson, P. Statistical tests for spatial clustering using case-control data. GIS and Public Health, Albany, NY April, 2005.
118. Matthew R. Bonner, Jo L. Freudenheim, Daikwon Han, Jing Nie, Qing Lan, Peter Rogerson, John E. Vena, , Stephen B. Edge, Peter Shields. Glutathione-S-transferase M1 (*GSTM1*), Total Suspended Particulate Exposure and Breast Cancer. American Association for Cancer Research, Anaheim, CA, April, 2005.
117. Jing Nie, Jan Beyea, Matthew R. Bonner, Daikwon Han, John E. Vena, Peter Rogerson, Dominica Vito, Paola Muti, Maurizio Trevisan, Jo L. Freudenheim. Environmental exposure to traffic polycyclic aromatic hydrocarbons (PAHs) and risk of breast cancer. American Association for Cancer Research, Anaheim, CA, April, 2005.
116. Rogerson, P. Surveillance of spatial maxima. Eastern North American Region, International Biometric Society, Pittsburgh, PA, March, 2004.
115. Delmelle, E., Rogerson, P., Batta, R., Akella, M., Blatt, A., and Wilson, G. Using topographic information to improve the mapping of cell phone signal strength. Association of American Geographers, Philadelphia, PA, March, 2004.
114. Rogerson, P. Economic geography: then, now, and the future. Comments at panel. Association of American Geographers, Philadelphia, PA, March, 2004.
113. Akella, M.R., Batta, R., Delmelle, E., and Rogerson, P. Optimal cell tower locations to maximize call completion probability using spatial interpolation. Philadelphia, PA, North American Regional Science Association, November, 2003.

112. Yamada, I. and Rogerson, P. Spatial Surveillance. (poster) Conference on Syndromic Surveillance, New York Academy of Medicine, New York, NY, October, 2003.
111. Rogerson, P. and Yamada, I. GeoSurveillance: A Program for monitoring change in geographic patterns. GEOMED '03, Baltimore, MD, October, 2003.
110. Yamada, I. and Rogerson, P. Spatial Surveillance. Joint Statistical Meetings, San Francisco, CA, August, 2003.
109. Rogerson, P. Spatial Surveillance Using Data Consisting of Small Regional Counts. Joint Statistical Meetings, San Francisco, CA, August, 2003.
108. Han, D., Bonner, M.R., Nie, J., Rogerson, P., Vena, J.E., Muti, P., Trevisan, M., and Freudenheim, J.L. Clustering of Lifetime Residence and Breast Cancer Risk in Western New York. Society for Epidemiological Research, Atlanta, June, 2003.
107. Rogerson, P. Spatial Surveillance. ENAR, Biometrics, Tampa, FL, February, 2003.
106. Han, D., Freudenheim, J.L., Rogerson, P.A., Bonner, M. and Nie, J. Exploratory Spatial Analyses of Lifetime Breast Cancer Risk and Residence History. Association of American Geographers, New Orleans, LA, March, 2003.
105. Yamada, I. and Rogerson, P. A GIS Application for the Quick Detection of Changes in Spatial Patterns of Disease Using Cumulative Sum Methods. Association of American Geographers, New Orleans, LA, March, 2003.
104. Delmelle, E., Rogerson, P., Akella, M., Batta, R., Blatt, A., and Wilson, G. A Spatial Model of Remote Signal Strength Indicator Values. Association of American Geographers, New Orleans, LA, March, 2003.
103. Rogerson, P. A Cumulative Sum Approach to Syndromic Surveillance in Geographic Regions. Association of American Geographers, New Orleans, LA, March, 2003.
102. Mark, D., Bian, L., Egenhofer, M., Freudenheim, J., Han, D., Hornsby, K., Rogerson, P., and Vena, J. 2003. Methods to Incorporate Effects of Human Residential Mobility into Environmental Epidemiology Research. Conference on Space-Time Information Systems, Ann Arbor, MI, January, 2003.
101. Rogerson, P. Spatial Surveillance of Data Consisting of Small Regional Counts. Conference on Space-Time Information Systems, Ann Arbor, MI, January, 2003.
100. Rogerson, P., Delmelle, E., Batta, R., Akella, M., Blatt, A., and Wilson, G. Optimal Sampling to Improve Maps of Variables with Spatially Varying Importance. Regional Science Association, Puerto Rico, November, 2002.

99. Vena, J.E., Howe, A., Africa, A., Assata, A., Rogerson, P., and Ambrus, J.J. Community-based research of an autoimmune disease cluster in Buffalo, New York. Annual meeting of the American Association of Public Health, Philadelphia, PA, November, 2002.
98. Rogerson, P. Cumulative Sum Methods for Spatial Syndromic Surveillance. (Poster) New York, NY, National Syndromic Surveillance Conference. New York Academy of Medicine. September, 2002.
97. Howe, A.K., Vena, J.E., Afrika, A., Assata, A., Rogerson, P., and Ambrus, J.J. 2002. Utilizing community-based participatory research methods in an epidemiological investigation of autoimmune disease. International Society for Environmental Epidemiology, Vancouver, British Columbia, August, 2002.
96. Rogerson, P., and Yamada, I. Quick Detection of Spatial and Temporal Clusters of Disease. International Society for Environmental Epidemiology, Vancouver, British Columbia, August, 2002.
95. Batta, R., Akella, M., and Rogerson, P. 2002. Cellular Networks – Base Station Location, Channel Allocation, and Emergency Notification. International Federation of Operational Research Societies, July 2002, Edinburgh, Scotland.
94. Rogerson, P., Han, D., and Yamada, I. Change Detection Thresholds: Alternative Statistical Methods for Detecting Change in Spatial Patterns. Conference on Space-Time Information Systems, Biomedware, Inc., Ann Arbor, MI, January, 2002.
93. Rogerson, P. Assessing the Statistical Significance of Disease Clusters Using Kernel-Based Methods in GIS. Association of American Geographers, New York, NY, March, 2001.
92. Rogerson, P. Local Statistics Based on Gaussian Kernels: Edge Corrections, Irregular Lattices, Spatial Autocorrelation, and Uncertain Cluster Sizes. Western Regional Science Association, Palm Springs, CA, February, 2001.
91. Tiefelsdorf, M. and Rogerson, P. The Specification and Distributional Properties of the Cross-Moran's I_{YZ} . Western Regional Science Association, Palm Springs, CA, February, 2001.
90. Rogerson, P. Monitoring Spatial and Temporal Patterns of Disease. UCGIS Conference on GIS and Vector-Borne Disease, San Diego, CA, January, 2001.
89. Rogerson, P. Detection and Monitoring of Geographic Patterns in Crime Data. Crime Mapping Research Conference, San Diego, CA, December, 2000.
88. Rogerson, P. Assessing the Statistical Significance of Geographic Clusters. GIS Day,

- McMaster University, Hamilton, Ontario, November, 2000.
87. Rogerson, P. Assessing the Significance of Local Statistics. GIScience 2000, Savannah, GA, October, 2000.
 86. Rogerson, P. The Detection of Emerging Spatial Clusters. Northeast Regional Science Association, Buffalo, NY, September, 2000.
 85. Norton, J., Vena, J., Moysich, K., and Rogerson, P. Residential promximity to PAHs and breast cancer risk. International Society for Environmental Epidemiology, Buffalo, NY, August, 2000.
 84. Rogerson, P. and Han, D. The Effects of Migration on the Detection of Disease Clusters. International Society for Environmental Epidemiology, Buffalo, NY, August, 2000.
 83. Rogerson, P. Monitoring Point Patterns for the Development of Space-Time Clusters. Conference on Analysis and Interpretation of Disease Clusters and Ecological Studies. London, December, 1999.
 82. Rogerson, P. The Monitoring of Point Incidents Around a Fixed Location. Second International Workshop on Geography and Medicine. GEOMED '99, Paris, November, 1999.
 81. Rogerson, P. and Han, D. 1999. Detection and prediction of geographical changes in crime rates. American Society of Criminology, Toronto, Ontario, November, 1999.
 80. Rogerson, P. Measures of Spatial Correlation. 11th European Colloquium on Quantitative and Theoretical Geography. Durham, England, September, 1999.
 79. Rogerson, P. and Sun, Y. Monitoring the Spatial Pattern of Criminal Activity. European Regional Science Association, Dublin, Ireland, August, 1999.
 78. Rogerson, P. Surveillance of Point Patterns Using Multivariate Cumulative Sum Methods. Regional Science Association, Santa Fe, New Mexico, November, 1998.
 77. Rogerson, P. The Measurement and Interpretation of Migration Flows. Association of American Geographers, Boston, MA, April 1998.
 76. Rogerson, P. Statistics for Spatial Patterns. Kickoff Meeting for Crime Analysis Tools. Environmental Systems Research Institute, Redlands, CA, December, 1997.
 75. Rogerson, P. and Zongxiang Yang. Political Districting in Cities with Negative Residential Gradients: Some Theoretical Investigations. Conference on Geographic Information Systems and Political Redistricting: Social Groups, Representational Values, and

- Electoral Boundaries. University at Buffalo, October, 1997.
74. Rogerson, P. The Demography and Geography of the Baby Boom. Conference on Migration and Restructuring, University of Georgia, May, 1997.
 73. Rogerson, P. The Geography of Elderly Minority Populations in the United States. Workshop on GIS in Spatial Population Analysis and Regional Economic Development, Hong Kong, March, 1997.
 72. Rogerson, P. A Spatial Version of the Chi-Square Goodness-of-Fit Test and its Application to Tests for Spatial Clustering. Regional Science Association, Washington, DC, November, 1996.
 71. Rogerson, P. and Plane, D. The Demography of Neighborhoods, Population Association of America, New Orleans, LA, May, 1996.
 70. Rogerson, P. and Plane, D. The Demography of Neighborhoods, Fifth World Congress of the Regional Science Association International, Tokyo, May, 1996.
 69. Rogerson, P. Surveillance Systems for Monitoring the Development of Spatial Pattern, Western Regional Science Association, Napa, CA, February, 1996.
 68. Harwitz, M., Lentnek, B., Rogerson, P., and Smith, T. Store Strategies on Agglomeration When Consumers Search Optimally. Annual Meeting of the Regional Science Association, Cincinnati, Ohio, November, 1995.
 67. Rogerson, P. and Lin, G. Changes in the Proximity of Adult Children to Their Parents. Annual Meeting of the Regional Science Association, Cincinnati, Ohio, November, 1995.
 66. Rogerson, P., Burr, J., and Lin, G. The Dynamics of Intergenerational Geographic Proximity: Recent Evidence from the National Survey of Families and Households. Annual Meeting of the Population Association of America, San Francisco, CA, April, 1995.
 65. Rogerson, P., Burr, J., and Lin, G. Changes in the Geographic Proximity Between Parents and Their Adult Children. Annual Meeting of the Association of American Geographers, Chicago, IL March, 1995.
 64. Rogerson, P. Geographic Perspectives on Elderly Population Growth During the Late 1980s. San Francisco, CA, April, 1994.
 63. Xie, Y. and Rogerson, P. Factors Influencing Chinese Fertility: A Regional Approach. Annual Meeting of the Association of American Geographers, San Francisco, CA, April, 1994.

62. Rogerson, P. Some Issues in Global Population Modeling. Conference on Global Modeling and GIS, New York, NY, December, 1992.
61. Rogerson, P. GIS and Population Analysis: A Survey. Regional Science Association, Chicago, IL, November, 1992.
60. Rogerson, P. A Question of Balance. Invited paper presented at the session on the future of regional science, Regional Science Association, Chicago, IL, November, 1992.
59. Rogerson, P. A Nonparametric Test for Pattern Detection and its Use in GIS. GIS/LIS, San Jose, CA, November, 1992.
58. Rogerson, P. and Weng, R. The Spatial Separation of Parents and their Adult Children. Conference on Migration in Post-Industrial Society, Los Angeles, CA, August, 1992.
57. Rogerson, P. and Lin, Ge. The Spatial Separation of the Elderly and Their Adult Children. Association of American Geographers, San Diego, CA, April, 1992.
56. Rogerson, P. Multiregional Projection of the Elderly Population. Western Regional Science Association, Tahoe, NV, February, 1992.
55. Rogerson, P. and Weng, R. The Spatial Separation Between Parents and Their Adult Children. Regional Science Association, New Orleans, LA, November, 1991.
54. Harwitz, M., Rogerson, P., Lentnek, B., and Smith, T. Optimal Sequential Spatial Search. Regional Science Association, New Orleans, LA, November, 1991.
53. Fotheringham, A. S. and Rogerson, P. Problems in Spatial Analysis from a GIS Perspective. GIS/LIS, Atlanta, GA, October, 1991.
52. Rogerson, P. Spatial Models of Sequential Choice. Association of American Geographers, Toronto, Ontario, April, 1990.
51. Plane, D. and Rogerson, P. Tracking the Baby Boom, Baby Bust, and Baby Boom Echo Through the 1990s and Beyond: Impacts of Shifting Age Composition on U.S. Mobility and Migration. Association of American Geographers, Toronto, Ontario, April, 1990.
50. Rogerson, P. Spatial Search and Routing. Regional Science Association, Santa Barbara, CA, November, 1989.
49. Harwitz, M., Rogerson, P., and Lentnek, B. Spatial Price Search: Optimal Policy in the Plane. Regional Science Association, Santa Barbara, CA, November, 1989.
48. Plane, D., and Rogerson, P. The Ten Commandments of Migration Research. Plenary

Address at the 3rd World Congress of the Regional Science Association, Jerusalem, Israel, April, 1989.

47. Rogerson, P. Searching Among Alternatives Distributed in Space. Association of American Geographers, Baltimore, MD, March, 1989.
46. Rogerson, P. Household Perspectives on Mobility. Western Regional Science Association, San Diego, CA, February, 1989.
45. Jackson, R., Rogerson, P., Plane, D., and O'hUallachain, B. Changes in I-O Structures: An Evaluation of Causative Matrix Methods. Regional Science Association, Toronto, Ontario, November, 1988.
44. Plane, D., and Rogerson, P. U.S. Migration Pattern Response to the Oil Glut and Recession of the Early 1980s: An Application of Shift-share and Causative Matrix Techniques. Regional Science Association, Toronto, Ontario, November, 1988.
43. Rogerson, P. "Monitoring the Restructuring of Migration Systems," Population Association of America, New Orleans, LA, April, 1988.
42. Rogerson, P. The Size of Acquaintance Networks. Association of American Geographers, Phoenix, Arizona, April, 1988.
41. Odland, J., Golledge, R., and Rogerson, P. Progress in the Development of Mathematical and Statistical Models. Association of American Geographers, Phoenix, Arizona, April, 1988.
40. Rogerson, P. The Size of Acquaintance Networks. Western Regional Science Association, Napa, California, February, 1988.
39. Rogerson, P. Dynamic Change in Migration Flow Patterns. American-Bulgarian Seminar on Regional Economic Development and Environmental Management, Morgantown, West Virginia, October, 1987.
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