

**BIOGRAPHICAL SKETCH**

Give the following information for the key personnel in the order listed on Form Page 2.  
Photocopy this page or follow this format for each person.

NAME Arthur Getis	POSITION TITLE Stephen and Mary Birch Foundation Endowed Chair of Geographical Studies		
EDUCATION/TRAINING ( <i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i> )			
INSTITUTION AND LOCATION	DEGREE ( <i>if applicable</i> )	YEAR(S)	FIELD OF STUDY
The Pennsylvania State University	B.S.	1952-1956	Geography
The Pennsylvania State University	M.S.	1956-1958	Geography
University of Washington	Ph.D.	1958-1961	Geography

RESEARCH AND/OR PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past three years and to representative earlier publications pertinent to this application. If the list of publications in the last three years exceeds two pages, select the most pertinent publications. DO NOT EXCEED TWO PAGES.

**Professional and Research Experience (abbreviated)**

1961-1963 Assistant Professor, Michigan State University  
 1963-1966 Assistant Professor, Urban Studies Center, Rutgers University  
 1966-1967 Visiting Lecturer, Bristol University, England  
 1967-1970 Associate Professor, Rutgers University  
 1970-1977 Professor, Rutgers University  
 1970 Regional Science Research Group, Harvard University  
 1971-1974 Visiting Lecturer, Princeton University  
 1974 Senior Fellow, East-West Center: Population Institute  
 1977-1990 Professor, University of Illinois  
 1977-1983 Head of Department of Geography, University of Illinois  
 1983-1984 Director of School of Social Sciences, University of Illinois  
 1982 Visiting Scholar, Cambridge University  
 1989 Visiting distinguished professor, San Diego State University  
 1990-1992 Professor, Doctoral Program Coordinator, San Diego State University  
 1991- Co-Editor, *Journal of Geographical Systems*  
 1992- Boards of Editors: *Geographical Analysis*, *Papers in Regional Science*, *Annals of Regional Science*  
 1992- Stephen and Mary Birch Foundation Endowed Chair of Geographical Studies, San Diego State University  
 1991- USA Member: IGU Commission on Modelling Geographical Systems  
 1995 Albert W. Johnson Research Lectureship, San Diego State University  
 1997 Walter Isard Award for Distinguished Scholarship, North American Regional Science Association  
 1999 President, Western Regional Science Association  
 1999 Arthur H. Robinson Lecture, The Ohio State University  
 2001-2003 President-Elect, President, Past President, University Consortium for Geographical Information Sciences  
 2002 Distinguished Scholarship Honors, Association of American Geographers  
 2002- Board, National Historical Geographical Information System  
 2003- Board, Regional Research Institute

**Selected Recent and Relevant Publications: Books**

Getis, A. 1978. *Models of Spatial Processes: An Approach to the Study of Point, Line and Area Patterns*. Cambridge: Cambridge University Press. Reprinted in Russian.

Boots B.N., and Getis A. 1987. *Point Pattern Analysis*. Newbury Park, Sage Publications.

Getis A. 1995. *The Tyranny of Data*, San Diego State University Press.

Fischer M.M. and Getis A. (eds.) 1997. *Recent Developments in Spatial Analysis: Spatial Statistics, Behavioural Modelling, and Computational Intelligence*, Springer: Berlin.

Getis A., Mur, J, and Zoller H (eds.) 2003 *Spatial Econometrics and Spatial Statistics*, Palgrave: London.

**Selected Recent and Relevant Publications: Articles and book chapters:**

- Getis A. and Franklin J.** 1987. Second-order neighborhood analysis of mapped point patterns. *Ecology*.
- Getis A.** 1988. Economic heterogeneity within large metropolitan areas. *Growth and Change* 19(1):31-42.
- Getis A.** 1989. A spatial causal model of economic interdependency among neighboring communities. *Environment and Planning A*. 21:115-120.
- Getis A.** 1989. A spatial association model approach to the identification of spatial dependence. *Geographical Analysis* 21(3): 251-259.
- Getis A.** 1990. Screening for spatial dependence in regression analysis. *Papers of the Regional Science Association* 69:69-81.
- Getis A.** 1991. Spatial interaction and spatial autocorrelation: a cross-product approach. *Environment and Planning A* 23:1269-1277.
- Getis A. and Ord J.K.** 1992. The analysis of spatial association by distance statistics. *Geographical Analysis*. 24:189-206.
- Anselin L. and Getis A.** 1992. Spatial statistical analysis and geographical information systems. *The Annals of Regional Science* 26:19-33.
- Getis A.** 1993. GIS and modeling prerequisites. In: Frank A.U. and Campari I. (eds.), *Spatial Information Theory: A Theoretical Basis for GIS*, 322-340. Berlin: Springer-Verlag.
- Getis A.** 1994. Spatial dependence and heterogeneity and proximal databases. Chap. 6, In: Fotheringham S. and Rogerson P. (eds.) *Spatial Analysis and GIS*, London: Taylor & Francis pp. 105-120.
- Ord J.K. and Getis A.** 1995. Local spatial autocorrelation Statistics: Distributional issues and an application. *Geographical Analysis* 27:286-306.
- Getis A.** 1995. Spatial filtering in a regression framework: examples using data on urban crime, regional inequality, and government expenditures. Chap. 14, In: Anselin L. and Florax R. *New Directions in Spatial Econometrics*. Berlin: Springer-Verlag, pp. 172-188.
- Getis A.** 1996. Local spatial statistics: an overview. Chap. 14, In: Longley P. and Batty M. (eds.), *Spatial Analysis: Modelling in a GIS Environment*. Cambridge, UK: Geoinformation International, pp. 261-278.
- Getis A. and Ord J.K.** The use of a local statistic to study the diffusion of AIDS from San Francisco. Chapter 12 in Griffith, D.A., C.G. Amrhein, J-M Huriot (eds) *Econometric Advances in Spatial Modelling and Methodology: Essays in Honour of Jean Paelinck*. Kluwer: Dordrecht, 1998.
- Getis A.** Spatial statistics. Chap. 16 in Longley P., M. Goodchild, D. Maguire, and D. Rhind (eds.), 2<sup>nd</sup> Ed. *Geographical Information Systems*, Volume 1. Wiley: New York. 1999.
- Morrison, A.C., Getis, A., Santiago, M., Rigau-Perez, J.G., and Reiter, P.** Exploratory space-time analysis of reported dengue cases during an outbreak in Florida, Puerto Rico, 1991-1992. *Am. J. Trop. Med. Hyg.* 58, 287-298. 1998.
- Wells, M.L. and A. Getis,** "The Spatial Characteristics of Stand Structure in *Pinus torreyana*," *Plant Ecology*, 143: 153-170, 1999.
- Getis, A.,** "Some Thoughts on the Impact of Large Data Sets on Regional Science," *The Annals of Regional Science*, 33, 2, 145-150, 1999.
- Fischer, M.M. and A. Getis,** "New Advances in Spatial Interaction Theory," *Papers in Regional Science*, 78, 117-18, 1999.
- O'Brien, D.J., Kaneene, J.B., Getis, A., Lloyd, J.W., Rip, M.R., Leader, R.W.,** "Spatial and Temporal Distribution of Selected Canine Cancers in Michigan, USA, 1964-1994," *Preventive Veterinary Medicine*, 42, 1-15, 1999.
- Couclelis, H. and A. Getis,** "Conceptualizing and Measuring Accessibility within Physical and Virtual Worlds," Chapter 2 (pp. 15-20) in D.C. Hodge, D.G. Janelle, eds. *Information, Place, and Cyberspace: Issues in Accessibility*. Heidelberg: Springer, 2000.
- Ord, J.K., and A. Getis,** "Testing for Local Spatial Autocorrelation in the Presence of Global Autocorrelation," *Journal of Regional Science*, 41, 3, 411-432, 2001.
- Getis, A., D.A. Griffith,** 2002, "Comparative Spatial Filtering in Regression Analysis," *Geographical Analysis*, 34, 2, 130-140.
- Chen, D-M, D. Stow, A. Getis,** 2002, "Multi-Resolution Classification Framework for Improving Land Use/Cover Mapping," Chapter 11 in Stephen J. Walsh and Kelley A. Crews-Meyer, eds., *Linking People, Place, and Policy: A GIScience Approach*, Boston, Kluwer, pp. 235-262.
- Getis, A., J.H.P. Paelinck,** 2003, "An Analytical Description of Spatial Patterns," *L'Espace Geographique*, 3, in press.
- Getis, A., A.C. Morrison, K. Gray, and T.W. Scott,** "Characteristics of the Spatial Pattern Pattern of the Dengue Vector, *Aedes Aegypti*, in Iquitos, Peru," *The Journal of the American Society of Tropical Medicine and Hygiene*, in press.
- Weeks, J.R., Getis, A., Hill, A.G., Rashed, T. and Gadalla, M.S.** "The Fertility Transition in Egypt: Intra-Urban Patterns in Cairo," *Annals of the Association of American Geographers*, in press.

