

## Marc P. Armstrong

- PhD University of Illinois, 1987  
MA University of North Carolina at Charlotte, 1977  
BA State University of New York at Plattsburgh, 1974

### Professional Appointments at The University of Iowa

- 2012-2014 **Interim Chair**, Department of Cinema and Comparative Literature  
2011-2014 **Dean's Administrative Fellow**, College of Liberal Arts and Sciences  
2011-2013 **Interim Chair**, Department of Communication Studies  
2010-2011 **Interim Director**, Division of World Languages, Literatures, and Cultures  
2010-2011 **Interim Chair**, Department of Asian and Slavic Languages and Literatures  
2008-2010 **Administrative Fellow**, College of Liberal Arts and Sciences  
2007-2009 **Interim Director**, School of Journalism and Mass Communication  
2006 (Fall) **Interim Associate Dean for Research**, College of Liberal Arts and Sciences  
2005-2007 **Administrative Fellow**, College of Liberal Arts and Sciences  
2000-2012 **Chair**, Department of Geography  
1998- **Professor**, Department of Geography, Graduate Program in Applied Mathematical and Computational Sciences, and Interdisciplinary Graduate Program in Informatics  
1991-1998 **Associate Professor**, Department of Geography and Graduate Program in Applied Mathematical and Computational Sciences  
1984-1991 **Assistant Professor**, Departments of Geography and Computer Science

### Recent Professional Awards and Honors

- 2008 Waldo Tobler Distinguished Lecture, Association of American Geographers, Boston, MA  
2007 Getis Distinguished Lecture, San Diego State University  
2005 University of Iowa Presidential Award for Technology Innovation in Teaching  
2005 University of Iowa College of Liberal Arts and Sciences, Collegiate Fellow

### Selected Service to the Profession

- 2007-2009 **Elected Board Member**, University Consortium for Geographic Information Science  
1998-2000 **North American Editor**, *International Journal of Geographical Information Science*  
1994-1996 **Associate Editor**, *Cartography and Geographic Information Systems*  
1992- 1993 **Co-Director**, Eleventh International Symposium on Computer-Assisted Cartography (Auto-Carto 11)  
1992-1994 **Steering Committee**, GIS/LIS Conferences (Conference Chair, 1994)

### Recent Monographs

- 2008:** Rushton, G., Armstrong, M.P., Gittler, J., Greene, B.R., Pavlik, C.E., West, M.M., and Zimmerman, D.L. (editors) *Geocoding Health Data*. Boca Raton, FL: CRC Press.
- 2007:** National Research Council. (Committee on Confidentiality of Linked Social-Spatial Information: Gutmann, M., Stern, P., Armstrong, M.P., Balk, D., Green, K., Levine, F., Onsrud, H., Reiter, J., and Rindfuss, R.) *Putting People on the Map: Protecting Confidentiality with Linked Social-Spatial Data*. Washington, DC: The National Academies Press.
- 2006:** National Research Council. (Committee on Basic and Applied Research Priorities in Geospatial Science for the National Geospatial-Intelligence Agency: Clarke, K.C., Armstrong, M.P., Bhaduri, B.L., Battenfield, B.P., Gahegan, M.N., Jackson, M.J., Shekar, S., and Tucker, C.) *Priorities for GEOINT Research at the National Geospatial-Intelligence Agency*. Washington, DC: The National Academies Press.

## Recent Articles and Book Chapters (out of > 100)

- 2012:** Xiao, N. and Armstrong, M.P. Towards a multiobjective view of cartographic design. *Cartography and Geographic Information Science*, 39 (2): 76-87.
- 2011:** Armstrong, M.P., Nyerges, T.L., Wang, S. and Wright, D. Connecting geospatial information to society through cyberinfrastructure. Chapter 6, in T. Nyerges, H. Couclelis and R. McMaster (eds.) *Handbook of GIS and Society Research*. Newbury Park, CA: Sage Publications, pp. 109-122.
- 2010:** Bennett, D. A., and Armstrong, M.P. Fundamentals of geographic information systems. John Bossler (ed.), *Manual of Geospatial Science and Technology* (2<sup>nd</sup> edition). New York, NY: Taylor and Francis, pp. 525-547.
- 2009:** Wang, S. and Armstrong, M.P. A theoretical approach to the use of cyberinfrastructure in geographical analysis. *International Journal of Geographical Information Science* **23** (2): 169-193.
- Haynes, D. and Armstrong, M.P. Population reallocation methods to support emergency evacuation planning. *Earthzine* (An online publication of the IEEE Committee on Earth Observation, available at <http://www.earthzine.org/>; search for “Haynes”).
- 2008:** Zhang, X. and Armstrong, M.P. Genetic algorithms and the corridor location problem: Multiple objectives and alternative solutions. *Environment and Planning B: Planning and Design* **35** (1): 148-168.
- Armstrong, M.P. and Densham, P.J. Cartographic support for locational problem-solving by groups. *International Journal of Geographical Information Science* **22** (7): 721-749.
- Wang, S., Cowles, M. K., and Armstrong, M. P. Grid computing of spatial statistics: using the TeraGrid for  $G_i^*(d)$  analysis. *Concurrency and Computation: Practice and Experience*, **20** (14): 1697-1720.
- 2007:** Xiao, N., Calder, C., and Armstrong, M.P. Assessing the effect of attribute uncertainty on the robustness of choropleth map classification. *International Journal of Geographical Information Science* **21** (1-2): 121-144.
- Xiao, N. Bennett, D.A. and Armstrong, M.P. Interactive evolutionary approaches to multiobjective spatial decision making: a synthetic review. *Computers, Environment and Urban Systems* **31** (3): 232-252.
- Yan, J., Cowles, M. K., Wang, S. and Armstrong, M.P. Parallelizing MCMC for Bayesian spatiotemporal geostatistical models. *Statistics and Computing* **17** (4): 323-335.
- 2006:** Rushton, G., Armstrong, M.P., Gittler, J., Greene, B., Pavlik, C.E., West, M. and Zimmerman, D. Geocoding in cancer research: A review. *American Journal of Preventive Medicine* **30** (2, Supplement 1): S16-S24.
- Xiao, N. and Armstrong, M.P. ChoroWare: A software toolkit for choropleth map classification. *Geographical Analysis* **38** (1): 102-121.