

# BENVGSA3: Geographic Information Systems and Science: Adam Dennett

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1.

Longley, Paul. Geographic Information Systems & Science. 3rd ed. John Wiley & Sons; 2011.

2.

Geospatial Analysis - Spatial and GIS Analysis Techniques and GIS Software.  
<https://www.spatialanalysisonline.com/HTML/index.html>

3.

Goodchild M. GIScience and Systems. In: International Encyclopedia of Human Geography. 2009. <http://www.sciencedirect.com/science/article/pii/B9780080449104000298#a0005>

4.

Goodchild M. GIS and Cartography. In: International Encyclopedia of Human Geography. 2009. <http://www.sciencedirect.com/science/article/pii/B9780080449104000341>

5.

Fotheringham, A. Stewart, Rogerson, Peter. The SAGE Handbook of Spatial Analysis. SAGE; 2009. <https://doi-org.libproxy.ucl.ac.uk/10.4135/9780857020130?locatt=mode:legacy>

6.

Monmonier, Mark S. How to Lie with Maps. 2nd ed. University of Chicago Press; 1996.

7.

Huisman O, de By R. Principles of Geographic Information Systems (4th Edition). ITC Educational Textbook; 2009. [http://www.itc.nl/library/papers\\_2009/general/PrinciplesGIS.pdf](http://www.itc.nl/library/papers_2009/general/PrinciplesGIS.pdf)

8.

Burrough PA, McDonnell R. Principles of Geographical Information Systems. Vol Spatial information systems and geostatistics. Oxford University Press; 1998.

9.

Fischer MM, Getis A. Handbook of Applied Spatial Analysis: Software Tools, Methods and Applications. Springer; 2009.  
<http://www.vlebooks.com/vleweb/product/openreader?id=UCL&isbn=9783642036477>

10.

Fotheringham, A. Stewart, Brunson, Chris, Charlton, Martin. Quantitative Geography: Perspectives on Spatial Data Analysis. Sage; 2000. doi:10.4135/9781849209755

11.

Krygier, John, Wood, Denis. Making Maps: A Visual Guide to Map Design for GIS. 2nd ed. Guilford; 2011.

12.

Pickles, John. Ground Truth: The Social Implications of Geographic Information Systems. Vol Mappings. Guilford Press; 1995.

13.

Wood, Denis, Fels, John, Krygier, John. Rethinking the Power of Maps. Guilford Press; 2010.

14.

Longley, Paul. Geographic Information Systems & Science. 3rd ed. John Wiley & Sons; 2011.

15.

Rees, P. H. The Census Data System. Wiley; 2002.

16.

Schuurman, Nadine. GIS: A Short Introduction. Vol Short introductions to geography. Blackwell; 2004.

17.

Steinberg, Steven J., Steinberg, Sheila L. GIS: Geographic Information Systems for the Social Sciences : Investigating Space and Place. SAGE; 2006. doi:10.4135/9781452239811

18.

Martin, David. Geographic Information Systems: Socioeconomic Applications. 2nd ed. Routledge; 1996.

19.

Geospatial Analysis - Spatial and GIS Analysis Techniques and GIS Software.  
<https://www.spatialanalysisonline.com/HTML/index.html>

20.

Goodchild M. Twenty years of progress: GIScience in 2010.  
<http://www.josis.org/index.php/josis/article/view/32>

21.

Longley, Paul, Batty, Michael, University College, London. Advanced Spatial Analysis: The CASA Book of GIS. ESRI Press; 2003.

22.

Haklay M. How good is volunteered geographical information? A comparative study of OpenStreetMap and Ordnance Survey datasets. 2010;37(4):682-703.  
<http://www.envplan.com/abstract.cgi?id=b35097>

23.

Goodchild M. GIScience and Systems. In: International Encyclopedia of Human Geography. 2009. <http://www.sciencedirect.com/science/article/pii/B9780080449104000298>

24.

UK Data Service. <http://ukdataservice.ac.uk/>

25.

data.gov.uk. <http://data.gov.uk/>

26.

Geofabrik - OSM downloads. <http://download.geofabrik.de/>

27.

Planet OSM - Open Street Map downloads. <http://planet.openstreetmap.org/>

28.

Digimap Home Page. <http://digimap.edina.ac.uk/digimap/home>

29.

Eurostat Home. <http://epp.eurostat.ec.europa.eu/portal/page/portal/eurostat/home>

30.

Monmonier, Mark S. How to Lie with Maps. 2nd ed. University of Chicago Press; 1996.

31.

Dodge, Martin, Kitchin, Rob, Perkins, C. R. The Map Reader: Theories of Mapping Practice and Cartographic Representation. Wiley-Blackwell; 2011.

32.

Kitchin R, Dodge M. Rethinking Maps. 31(3).  
[http://personalpages.manchester.ac.uk/staff/m.dodge/cv\\_files/pihg\\_rethinking\\_maps.pdf](http://personalpages.manchester.ac.uk/staff/m.dodge/cv_files/pihg_rethinking_maps.pdf)

33.

Brewer, Cynthia A. Designing Better Maps: A Guide for GIS Users. ESRI Press; 2005.

34.

Tufte, Edward R. The Visual Display of Quantitative Information. 2nd ed. Graphics Press; 2001.

35.

Dorling, Daniel, Newman, M. E. J., Barford, Anna. The Atlas of the Real World: Mapping the Way We Live. Thames & Hudson; 2008.

36.

Harley J. Deconstructing the map. 1989;26(2).

<http://quod.lib.umich.edu/p/passages/4761530.0003.008/--deconstructing-the-map?rgn=main;view=fulltext>

37.

Kitchin R, Gleeson J, Dodge M. Unfolding mapping practices: a new epistemology for cartography. *Transactions of the Institute of British Geographers*. 2013;38(3):480-496. doi:10.1111/j.1475-5661.2012.00540.x

38.

Griffin AL. Color, Mapping. In: *International Encyclopedia of Human Geography*. 2009. <http://www.sciencedirect.com/science/article/pii/B9780080449104000158>

39.

Brewer C, Harrower M. ColorBrewer: Color Advice for Maps. <http://colorbrewer2.org/>

40.

Krygier J. Making Maps: DIY Cartography | Resources and Ideas for Making Maps. <http://makingmaps.net/>

41.

Hennig B. Views of the World | worldmapping beyond mere description. <http://www.viewsoftheworld.net/>

42.

Wood D, Krygier J. Critical Cartography. In: *International Encyclopedia of Human Geography*. 2009. <http://www.sciencedirect.com/science/article/pii/B9780080449104000183>

43.

ArcGIS Resources. <http://resources.arcgis.com/en/home/>

44.

Spector P. Data Manipulation with R. Vol Use R! Springer; 2008.

45.

ggplot2. <http://docs.ggplot2.org/current/>

46.

Bivand R, Pebesma EJ, Gómez-Rubio V. Applied Spatial Data Analysis with R. Vol Use R! Springer; 2008.

47.

Wickham H. Ggplot2: Elegant Graphics for Data Analysis. Vol Use R! Springer; 2009.

48.

Chang W. R Graphics Cookbook. 1st edition. O'Reilly Media, Inc; 2012.  
[https://safarivjv.auth0.com/authorize?client\\_id=UtNi1m1IRXgzYFlwZrhSxell9EDRaL2v&response\\_type=code&connection=university-college-london&redirect\\_uri=https://www.safaribooksonline.com/complete/auth0-oauth2/&state=/library/view/-/9781449363086/?ar](https://safarivjv.auth0.com/authorize?client_id=UtNi1m1IRXgzYFlwZrhSxell9EDRaL2v&response_type=code&connection=university-college-london&redirect_uri=https://www.safaribooksonline.com/complete/auth0-oauth2/&state=/library/view/-/9781449363086/?ar)

49.

Haining R. The Special Nature of Geographic Data. In: The SAGE Handbook of Spatial Analysis. SAGE; 2009.

50.

Longley P, Longley P. Chapter 3 - Representing Geography. In: Geographic Information Systems & Science. 3rd ed. John Wiley & Sons; 2011.

51.

Longley P. Chapter 5 - Georeferencing. In: Geographic Information Systems & Science. 3rd ed. John Wiley & Sons; 2011.

52.

RStudio. <http://www.rstudio.com/>

53.

The R Project for Statistical Computing. <http://www.r-project.org/>

54.

Kessler F. Projections. In: International Encyclopedia of Human Geography. 2009.  
<http://www.sciencedirect.com/science/article/pii/B9780080449104000614>

55.

Mackness W, Chaudhry O. Generalization. In: International Encyclopedia of Human Geography. 2009.  
<http://www.sciencedirect.com/science/article/pii/B9780080449104000262>

56.

R Tutorials. [http://www.social-statistics.org/?page\\_id=1085](http://www.social-statistics.org/?page_id=1085)

57.

Adam's R Pubs website. [http://rpubs.com/adam\\_dennett](http://rpubs.com/adam_dennett)

58.

Chris Brunsdon's R Pubs Website. <http://rpubs.com/chrisbrunsdon>

59.

Nick Bearman's RPub's website. <http://rpubs.com/nickbearman/>

60.

Alex Singleton's RPub's website. <http://rpubs.com/alexsingleton/>

61.

Monmonier, Mark S. How to Lie With Maps, Chapter 10. In: How to Lie with Maps. 2nd ed. University of Chicago Press; 1996.

62.

Burrough PA, McDonnell R, Burrough PA. Principles of Geographical Information Systems, Chapter 9/10. Vol Spatial information systems and geostatistics. Oxford University Press; 1998.

63.

Burrough PA, McDonnell R. Principles of geographical information systems - Chapter 10. In: Principles of Geographical Information Systems. Vol Spatial information systems and geostatistics. Oxford University Press; 1998.

64.

Fotheringham S. Quantification, Evidence, Positivism. In: Approaches to Human Geography . SAGE; 2006.

65.

Longley P, Longley P. Chapter 6 - Uncertainty. In: Geographic Information Systems & Science. 3rd ed. John Wiley & Sons; 2011.

66.

Wong D. The modifiable area unit problem (MAUP). In: The SAGE Handbook of Spatial Analysis. SAGE; 2009.

67.

Ervin D. An Introduction to the Modifiable Areal Unit Problem. <http://gispopsci.org/maup/>

68.

Pickles J. Ground Truth - Chapters 1, 3 & 7. In: Ground Truth: The Social Implications of Geographic Information Systems. Vol Mappings. Guilford Press; 1995.

69.

Wong D. Modifiable Areal Unit Problem. In: International Encyclopedia of Human Geography. 2009.  
<http://www.sciencedirect.com/science/article/pii/B9780080449104004752#a0005>

70.

Sui D. Ecological Fallacy. In: International Encyclopedia of Human Geography. 2009.  
<http://www.sciencedirect.com/science/article/pii/B9780080449104004223#a0005>

71.

Goodchild M. First Law of Geography. In: International Encyclopedia of Human Geography. 2009. <http://www.sciencedirect.com/science/article/pii/B9780080449104004387#a0005>

72.

Chapter 4 - Building Blocks of Spatial Analysis. In: Geospatial Analysis - Spatial and GIS Analysis Techniques and GIS Software. <http://www.spatialanalysisonline.com/>

73.

Longley, Paul. Geographic Information Systems and Science - Chapters 14 & 15. In: Geographic Information Systems & Science. 3rd ed. John Wiley & Sons; 2011.

74.

Rogerson P. Chapter 1. In: Statistical Methods for Geography: A Student's Guide. 3rd ed. SAGE; 2010.

75.

Tobler W. On the First Law of Geography: A Reply. Annals of the Association of American Geographers. 2004;94(2):304-310. doi:10.1111/j.1467-8306.2004.09402009.x

76.

Miller HJ. Tobler's First Law and Spatial Analysis. Annals of the Association of American Geographers. 2004;94(2):284-289. doi:10.1111/j.1467-8306.2004.09402005.x

77.

Sui DZ. Tobler's First Law of Geography: A Big Idea for a Small World? Annals of the Association of American Geographers. 2004;94(2):269-277. doi:10.1111/j.1467-8306.2004.09402003.x

78.

Geo-Refer > Online Geographical Referencing Resources for Social Scientists -- Resources. <http://www.restore.ac.uk/geo-refer/resources.php>

79.

Dorling D. The 32 Stops: Lives on London's Central Line. Vol Penguin lines. Penguin; 2013.

80.

ArcGIS Help 10.1 - How Spatial Autocorrelation (Global Moran's I) works.  
<http://resources.arcgis.com/en/help/main/10.1/index.html#//005p0000000t000000>

81.

Cliff AD, Ord JK. Spatial Autocorrelation. Vol Monographs in spatial and environmental systems analysis. Pion; 1973.

82.

Anselin L. Local Indicators of Spatial Association-LISA. Geographical Analysis. 2010;27(2):93-115. doi:10.1111/j.1538-4632.1995.tb00338.x

83.

Chen Y. New Approaches for Calculating Moran's Index of Spatial Autocorrelation. PLoS ONE. 2013;8(7). doi:10.1371/journal.pone.0068336

84.

Goodchild MF. Spatial Autocorrelation. Vol CATMOG. Geo Books; 1986.

85.

Haining RP. Spatial Autocorrelation and the Quantitative Revolution. Geographical Analysis . 2009;41(4):364-374. doi:10.1111/j.1538-4632.2009.00763.x

86.

Goodchild MF. What Problem? Spatial Autocorrelation and Geographic Information Science. Geographical Analysis. 2009;41(4):411-417. doi:10.1111/j.1538-4632.2009.00769.x

87.

Lu Y. Spatial Clustering, Detection and Analysis of. In: International Encyclopedia of Human Geography. 2009.  
<http://www.sciencedirect.com/science/article/pii/B978008044910400523X#a0005>

88.

Field AP, Miles J, Field Z. Discovering Statistics Using R. Sage; 2012.

89.

Ripley BD. Spatial Statistics. Vol Wiley series in probability and mathematical statistics. Wiley; 1981.

90.

Kalkhan MA. Spatial Statistics: Geospatial Information Modeling and Thematic Mapping. CRC; 2011.

91.

Chun Y, Griffith DA. Spatial Statistics & Geostatistics: Theory and Applications for Geographic Information Science & Technology. Vol SAGE advances in GIST. SAGE; 2013.

92.

Rogerson P. Statistical Methods for Geography: A Student's Guide. 3rd ed. SAGE; 2010.

93.

Harris R, Sleight P, Webber R. Geodemographics, GIS, and Neighbourhood Targeting. Vol Mastering GIS. Wiley; 2005.  
[http://scholar.google.co.uk/scholar?q=geodemographics&hl=en&as\\_sdt=0&as\\_vis=1&oi=scholart&sa=X&ei=JAK8U7rjlazT7AaljIDICQ&ved=0CB4QgQMwAA](http://scholar.google.co.uk/scholar?q=geodemographics&hl=en&as_sdt=0&as_vis=1&oi=scholart&sa=X&ei=JAK8U7rjlazT7AaljIDICQ&ved=0CB4QgQMwAA)

94.

Birkin M, Clarke G. Geodemographics. In: International Encyclopedia of Human Geography. 2009. <http://www.sciencedirect.com/science/article/pii/B9780080449104000274>

95.

Rushton G, Tiwari C. Spatial Filtering/Kernel Density Estimation. In: International Encyclopedia of Human Geography.  
<http://www.sciencedirect.com/science/article/pii/B9780080449104005289#a0005>

96.

Harris R, Jarvis C. Statistics in Geography and Environmental Science. Prentice Hall; 2011.

97.

Field AP, Miles J, Field Z. Discovering Statistics Using R. Sage; 2012.

98.

Fotheringham AS, Brunson C, Charlton M. Geographically Weighted Regression: The Analysis of Spatially Varying Relationships. John Wiley & Sons; 2002.

99.

Páez A, Wheeler D. Geographically Weighted Regression. In: International Encyclopedia of Human Geography. 2009.  
<http://www.sciencedirect.com/science/article/pii/B9780080449104004478#a0005>

100.

Pearce J. Regression, Linear and Nonlinear. In: International Encyclopedia of Human Geography. 2009.  
<http://www.sciencedirect.com/science/article/pii/B9780080449104005071#a0005>

101.

Dunn R. Building regression models: the importance of graphics. Journal of Geography in Higher Education. 1989;13(1):15-30. doi:10.1080/03098268908709055

102.

Calder C, Cressie N. Kriging and Variogram Models. In: International Encyclopedia of Human Geography. 2009.

<http://www.sciencedirect.com/science/article/pii/B9780080449104004612#a0005>

103.

Lam N. Spatial Interpolation. In: International Encyclopedia of Human Geography. 2009.

<http://www.sciencedirect.com/science/article/pii/B9780080449104005307#a0005>

104.

Unwin D. Trend Surface Models. In: International Encyclopedia of Human Geography. 2009.

<http://www.sciencedirect.com/science/article/pii/B9780080449104005514#a0005>