

# Research and Field Skills

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1.

Derry GN. What is Science? (What science is and how it works: Prologue). In: What science is and how it works [Internet]. Princeton, N.J.: Princeton University Press; 1999. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=581580>

2.

Leedy PD, Ormrod JE. What is research? (Practical research: planning and design: Ch 1). In: Practical research: planning and design [Internet]. 11th ed. Boston: Pearson; 2015. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=887036>

3.

Marder MP. Curiosity and research (Research methods for science: Ch 1). In: Research methods for science [Internet]. Cambridge: Cambridge University Press; 2011. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=297821>

4.

Hulme M. The performance of science (Why we disagree about climate change: understanding controversy, inaction and opportunity: Ch 3). In: Why we disagree about climate change: understanding controversy, inaction and opportunity. Cambridge: Cambridge University Press; 2009.

5.

Derry GN. Difficult and important questions: science, values and ethics (What science is and how it works: Ch 11). In: What science is and how it works [Internet]. Princeton, N.J.: Princeton University Press; 1999. Available from:

<https://ebookcentral.proquest.com/lib/uea/detail.action?docID=581580>

6.

Derry GN. Nature's Jigsaw (What science is and how it works: Ch 2). In: What science is and how it works [Internet]. Princeton, N.J.: Princeton University Press; 1999. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=581580>

7.

Derry GN. Thinking straight: evidence, reason and critical evaluation (What science is and how it works: Ch 7). In: What science is and how it works [Internet]. Princeton, N.J.: Princeton University Press; 1999. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=581580>

8.

How Science Changes - The Atlantic [Internet]. Available from: <http://www.theatlantic.com/technology/archive/2012/12/how-science-changes/266145/>

9.

Funtowicz SO, Ravetz JR. Science for the post-normal age. Futures. 1993 Sep;25(7):739-55.

10.

Stuart Firestein: The pursuit of ignorance | TED Talk | TED.com [Internet]. Available from: [https://www.ted.com/talks/stuart\\_firestein\\_the\\_pursuit\\_of\\_ignorance](https://www.ted.com/talks/stuart_firestein_the_pursuit_of_ignorance)

11.

Andrews JE. An introduction to environmental chemistry [Internet]. 2nd ed. Malden, Mass: Blackwell; 2004. Available from: <http://www.mylibrary.com/browse/open.asp?id=237121&entityid=https://login.uea.ac.uk/entity>

12.

Leedy PD, Ormrod JE. The problem: the heart of the research process (Practical research: planning and design: Ch 3). In: Practical research: planning and design [Internet]. 11th ed. Boston: Pearson; 2015. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=887036>

13.

Sutherland WJ. Planning a research programme (Ecological census techniques: Ch. 1). In: Ecological census techniques: a handbook [Internet]. Cambridge University Press; 2006. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=268225>

14.

Marder MP. Overview of experimental analysis and design (Research methods for science: Ch 2). In: Research methods for science [Internet]. Cambridge: Cambridge University Press; 2011. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=297821>

15.

Watts S, Halliwell L. The Good Scientist (Essential environmental science: methods & techniques: Ch. 1). In: Essential environmental science: methods & techniques [Internet]. London: Routledge; 1996. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=9894>

16.

Goldacre B. Bad science. [New ed.]. London: Harper Perennial; 2009.

17.

Kneale P. Constructing an argument (Study skills for geography, earth and environmental science students: Ch. 11). In: Study skills for geography, earth and environmental science students [Internet]. 3rd ed. London: Hodder Education; 2011. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=712854>

18.

Leedy PD, Ormrod JE. Planning your research project (Practical research: planning and design: Ch 5). In: Practical research: planning and design [Internet]. Eleventh edition.

Boston: Pearson; 2015. Available from:  
<https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=887036>

19.

Watts S, Halliwell L. Sampling (Essential environmental science: methods & techniques: Ch. 2). In: Essential environmental science: methods & techniques [Internet]. London: Routledge; 1996. Available from:  
<https://ebookcentral.proquest.com/lib/uea/detail.action?docID=179639>

20.

Watts S, Halliwell L. Ecological fieldwork methods (Essential environmental science: methods & techniques: Ch 8). In: Essential Environmental Science: Methods & Techniques [Internet]. London: Routledge; 1996. Available from:  
<https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=9894>

21.

Rice S. Sampling in Geography (Key methods in geography: Ch 17). In: Key methods in geography [Internet]. 3rd ed. London: SAGE; 2016. Available from:  
<https://app.talis.com/textbooks/9781473908970>

22.

Visionlearning | Process of Science | Data Analysis and Interpretation [Internet]. Available from:  
<http://www.visionlearning.com/en/library/Process-of-Science/49/Data-Analysis-and-Interpretation/154>

23.

Field R. Data handling & presentation (Key methods in geography: Ch 21). In: Clifford NJ, Cope M, Gillespie T, French S, editors. Key methods in geography [Internet]. Third edition. Los Angeles: SAGE; 2016. Available from: <https://app.talis.com/textbooks/9781473908970>

24.

Visionlearning | Process of Science | Using Graphs and Visual Data in Science [Internet].

Available from:

<http://www.visionlearning.com/en/library/Process-of-Science/49/Using-Graphs-and-Visual-D ata-in-Science/156>

25.

Berinato S. Good charts: the HBR guide to making smarter, more persuasive data visualizations. Boston, Massachusetts: Harvard Business Review Press; 2016.

26.

Few S. Show me the numbers: designing tables and graphs to enlighten. Second edition. El Dorado Hills, California: Analytics Press; 2012.

27.

Tufte ER. The visual display of quantitative information. Second edition. Cheshire, Connecticut: Graphics Press; 2013.

28.

Improving your graph: a case study [Internet]. Available from:  
<http://baryon.be/blog/2016/08/improving-your-graph-a-case-study/>

29.

Watts S, Halliwell L. Social surveys (Essential environmental science: methods & techniques: Ch 9). In: Essential environmental science: methods & techniques [Internet]. London: Routledge; 1996. Available from:  
<https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=9894>

30.

Parfitt J. Questionnaire design & sampling (Methods in Human Geography: Ch 6). In: Methods in human geography: a guide for students doing a research project [Internet]. 2nd ed. Harlow: Pearson/Prentice-Hall; 2005. Available from:  
<https://ebookcentral.proquest.com/lib/uea/detail.action?docID=1461044>

31.

McLafferty SL. Conducting Questionnaire Surveys (Key methods in geography: Ch 6). In: Clifford NJ, Cope M, Gillespie T, French S, editors. Key methods in geography [Internet]. Third edition. Los Angeles: SAGE; 2016. Available from: <https://app.talis.com/textbooks/9781473908970>

32.

Visionlearning | Process of Science | Scientific Ethics [Internet]. Available from: <http://www.visionlearning.com/en/library/Process-of-Science/49/Scientific-Ethics/161>

33.

Resnik DB. What is Ethics in Research and Why is it Important? [Internet]. [US] Naational Institute of Environmental Health Sciences; Available from: <http://www.niehs.nih.gov/research/resources/bioethics/whatis/>

34.

Oliver P. The student's guide to research ethics [Internet]. 2nd ed. Maidenhead, Berkshire: Open University Press; 2010. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=557103>

35.

Marder MP. Overview of experimental analysis and design (Research methods for science: Ch 2). In: Research methods for science [Internet]. Cambridge: Cambridge University Press; 2011. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=297821>

36.

Leedy PD, Ormrod JE. Planning your research project (Practical research: planning and design: Ch 5). In: Practical research: planning and design [Internet]. 11th ed. Upper Saddle River, N.J.: Prentice Hall; 2015. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=887036>

37.

Risk assessments (Royal Geographical Society guidance) [Internet]. Available from: <https://www.rgs.org/in-the-field/fieldwork-in-schools/fieldwork-safety-and-planning/risk-assessments/>

38.

Risk Assessment | STEM [Internet]. Available from: <https://www.stem.org.uk/elibrary/resource/31202>

39.

Jensen JR, Jensen RR. Georeferencing (Introductory geographic information systems: Ch 2). In: Introductory geographic information systems. International ed. Boston: Pearson; 2013.

40.

Kennedy MD. Some concepts that underpin GIS (Introducing geographic information systems with ArcGIS: a workbook approach to learning GIS: Ch 1). In: Introducing geographic information systems with ArcGIS: a workbook approach to learning GIS [Internet]. Third edition. Hoboken, New Jersey: John Wiley & Sons; 2013. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=875846>

41.

Monmonier MS. Elements of the map (How to lie with maps: Ch 2). In: How to lie with maps. 2nd ed. Chicago: University of Chicago Press; 1996.

42.

Monmonier MS. Map generalization: little white lies and lots of them (How to lie with maps: Ch 3). In: How to lie with maps. 2nd ed. Chicago: University of Chicago Press; 1996.

43.

Kennedy M. Products of a GIS: Maps and Other Information (Introducing geographic information systems with ArcGIS: a workbook approach to learning GIS: Ch 3). In: Introducing geographic information systems with ArcGIS: a workbook approach to learning GIS [Internet]. Third edition. Hoboken, New Jersey: John Wiley & Sons; 2013. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=875846>

44.

Jones C (Kate) E. Cartographic Theory and Principles. In: Interacting with geospatial technologies [Internet]. Chichester, West Sussex, UK: John Wiley; 2010. p. 37–65. Available from: <http://doi.wiley.com/10.1002/9780470689813.ch3>

45.

Haklay M. Colour figures for Cartographic Theory and Principles (Interacting with Geospatial Technologies: Ch 3). In: Interacting with geospatial technologies [Internet]. Chichester, West Sussex, UK: John Wiley; 2010. p. c1–16. Available from: <http://doi.wiley.com/10.1002/9780470689813.ins>

46.

Wood D, Fels J. The natures of maps: cartographic constructions of the natural world. Chicago: University of Chicago Press; 2008.

47.

Brotton J. A history of the world in twelve maps. London: Allen Lane; 2012.

48.

Longley P, Goodchild MF, Maguire DJ. Georeferencing: (Geographic information science & systems: Ch 4). In: Geographic information science & systems [Internet]. Fourth edition. Hoboken, NJ: Wiley; 2015. Available from: [https://app-knovel-com.uea.idm.oclc.org/web/toc.v/cid:kpGISSE001/viewerType:toc//root\\_slug:geographic-information-science?kpromoter=marc](https://app-knovel-com.uea.idm.oclc.org/web/toc.v/cid:kpGISSE001/viewerType:toc//root_slug:geographic-information-science?kpromoter=marc)

49.

Longley P, Goodchild MF, Maguire DJ. Geographic information: science, systems and society (Geographic information science & systems: Ch 1). In: Geographic information science & systems [Internet]. Fourth edition. Hoboken, NJ: Wiley; 2015. Available from: [https://app.knovel.com/web/toc.v/cid:kpGISSE001/viewerType:toc//root\\_slug:geographic-information-science?kpromoter=marc](https://app.knovel.com/web/toc.v/cid:kpGISSE001/viewerType:toc//root_slug:geographic-information-science?kpromoter=marc)



50.

Jensen JR, Jensen RR. Introduction to GIS (Introductory geographic information systems: Ch 1). In: Introductory geographic information systems. International ed. Boston: Pearson; 2013.

51.

Jensen JR, Jensen RR. Spatial data models and databases (Introductory geographic information systems: Ch 5). In: Introductory geographic information systems. International ed. Boston: Pearson; 2013.

52.

Longley P, Goodchild MF, Maguire DJ. Representing geography (Geographic information science & systems: Ch 3). In: Geographic information science & systems [Internet]. Fourth edition. Hoboken, NJ: Wiley; 2015. Available from: [https://app.knovel.com/web/toc.v/cid:kpGISSE001/viewerType:toc//root\\_slug:geographic-information-science?kpromoter=marc](https://app.knovel.com/web/toc.v/cid:kpGISSE001/viewerType:toc//root_slug:geographic-information-science?kpromoter=marc)

53.

Baban SMJ, Flannagan J. Developing and Implementing GIS-assisted Constraints Criteria for Planning Landfill Sites in the UK. *Planning Practice and Research*. 1998 May;13(2):139–51.

54.

Thornton LE, Pearce JR, Macdonald L, Lamb KE, Ellaway A. Does the choice of neighbourhood supermarket access measure influence associations with individual-level fruit and vegetable consumption? A case study from Glasgow. *International Journal of Health Geographics*. 2012;11(1).

55.

Bagan H, Yamagata Y. Landsat analysis of urban growth: How Tokyo became the world's largest megacity during the last 40 years. *Remote Sensing of Environment*. 2012 Dec;127:210–22.

56.

Comber A, Brunsdon C, Green E. Using a GIS-based network analysis to determine urban greenspace accessibility for different ethnic and religious groups. *Landscape and Urban Planning*. 2008 May;86(1):103–14.

57.

Lovett AA, Parfitt JP, Brainard JS. Using GIS in Risk Analysis: A Case Study of Hazardous Waste Transport. *Risk Analysis*. 1997 Oct;17(5):625–33.

58.

Brown LJ, Lamhonwah D, Murphy BL. Projecting a spatial shift of Ontario's sugar maple habitat in response to climate change: A GIS approach. *The Canadian Geographer / Le Géographe canadien*. 2015 Sep;59(3):369–81.

59.

Liang Y, Liu L. Modeling urban growth in the middle basin of the Heihe River, northwest China. *Landscape Ecology*. 2014 Dec;29(10):1725–39.

60.

Kneale PE. Practical reports, laboratory and field notebooks (Study skills for geography, earth and environmental science students: Ch 18). In: *Study skills for geography, earth and environmental science students* [Internet]. 3rd ed. London: Hodder Education; 2011. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=712854>

61.

Leedy PD, Ormrod JE. Preparing the research report (Practical research: planning and design: Ch 12). In: *Practical research: planning and design* [Internet]. Eleventh edition. Boston: Pearson; 2015. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?milDocID=887036>

62.

Bradford M. Writing essays, reports and dissertations (Key methods in geography: Ch 31). In: Clifford NJ, Cope M, Gillespie T, French S, editors. *Key methods in geography* [Internet]. Third edition. Los Angeles: SAGE; 2016. Available from: <https://app.talis.com/textbooks/9781473908970>

63.

Kneale PE. Effective essay skills (Study skills for geography, earth and environmental science students: Ch 17). In: Study skills for geography, earth and environmental science students [Internet]. 3rd ed. London: Hodder Education; 2011. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=712854>

64.

Greetham B. How to write better essays [Internet]. Fourth edition. London: Macmillan Education; 2018. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=6235046>

65.

Shields M. Essay writing: a student's guide [Internet]. Vol. SAGE study skills. Los Angeles, [Calif.]: SAGE; 2010. Available from: <https://ebookcentral.proquest.com/lib/uea/detail.action?docID=743723>

66.

The most commonly misused words and phrases in scientific writing | Adams Kaul [Internet]. Available from: <https://adamskaul.wordpress.com/2014/05/12/201452the-most-commonly-misused-words-and-phrases-in-scientific-writing/>

67.

Top Ten style checks for PhDs or creative non-fiction writers [Internet]. Available from: <https://medium.com/advice-and-help-in-authoring-a-phd-or-non-fiction/top-ten-style-checks-for-phds-or-creative-non-fiction-writers-9ca63542f5d#.yrmib5szu>

68.

Lesson 3: Scientific Writing - Concision and Simplicity (Duke University) [Internet]. Available from: <https://cgi.duke.edu/web/sciwriting/index.php?action=lesson3>

69.

Style Points for Scientific Writing (University of Connecticut Writing Center) [Internet].

Available from:

[https://web2.uconn.edu/writingcenter/pdf/Style\\_Points\\_for\\_Scientific\\_Writing.pdf](https://web2.uconn.edu/writingcenter/pdf/Style_Points_for_Scientific_Writing.pdf)

70.

Scientific Writing Resource - Duke University [Internet]. Available from:

[https://cgi.duke.edu/web/sciwriting/index.php?action=passive\\_voice](https://cgi.duke.edu/web/sciwriting/index.php?action=passive_voice)

71.

Effective Writing | Learn Science at Scitable [Internet]. Available from:

<https://www.nature.com/scitable/topicpage/effective-writing-13815989>

72.

Active vs. Passive Voice in Scientific Writing [Internet]. Available from:

<https://www.acs.org/content/dam/acsorg/events/professional-development/Slides/2015-04-09-active-passive.pdf>