

Dr. Nick Bearman

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Education and Qualifications

April 2018	FREC3 Level 3 Certificate in First Response Emergency Care (RFQ) My Skills For Life, Quallsafe
Oct 2008 – Dec 2011	PhD Using Sound to Represent Uncertainty in Spatial Data School of Environmental Sciences University of East Anglia
Sept 2007 – Oct 2008	MSc GIS (Merit) Department of Geography, University of Leicester Dissertation: Using Sound to Represent Spatial Data in ArcGIS
Sept 2003 – June 2006	BSc (Honours) Geography [2:1] Department of Geography, University of Leicester

Employment

March 2018 – Present	GIS Trainer and Consultant at Geospatial Training Solutions Developing and delivering 1 day to 1 week training courses in GIS using QGIS, R/RStudio, ArcGIS, Python and other tools
Sept 2017 – Present	Teaching Fellow in Geospatial Analysis at UCL Coordinator for MSc Geospatial Analysis, teaching and coordinating 3 modules (Representations, Spatial Analysis and Network Analysis)
April 2018 – Present	Event Medic for A2E Medical Services Providing FREC3 level care at a range of events including races, sports days, music concerts and village fetes
Mar 2016 – Feb 2018	Senior GIS Analyst and Course Director at Clear Mapping Co. Delivering training courses and projects using GIS to understand and present data, using ArcGIS, QGIS, R/RStudio and MapBox
April 2016 – Present	Honorary Lecturer, Department of Geography and Planning, University of Liverpool Lecture on courses in GIS and Geography
Aug 2013 – Mar 2016	University Teacher / Research Associate, Department of Geography and Planning, University of Liverpool Working on routing analysis, health inequalities and developing census data comparison methods using open source tools Coordinating and lecturing on ENV257 Applied GIS and lecturing on ENV357/557 Understanding Social Exclusion and Inequalities
Jan 2012 – Aug 2013	Associate Research Fellow in GIS European Centre for Environment and Human Health (ECEHH) University of Exeter Medical School Performing epidemiology / public health GIS analysis & teaching GIS

Research Interests

My substantive research and professional interests concern the teaching of GIS and how it can be developed, improved and taught to as wide an audience as possible. I am also particularly interested in applying geographic data science and big data analysis

techniques to areas where GIS is not usually applied. I have developed methodologies to create aggregated gridded data outputs from varying Census geographies as well as modelling the dynamics of patterns linked to population flows through the use of transport infrastructure at the University of Liverpool. Key to teaching GIS to any audience is developing critical spatial thinking skills, which are easily neglected in an intensive, lab-based GIS practical session.

Professional Roles & Prizes

- 2015-9 Member & Treasurer of Geographical Information Science Research Group of the RGS.
- 2014-9 Member of GISRUUK Conference Series Steering Committee, ECR representative.
- 2017-8 Workshop Coordinator for FOSS4G UK 2018 conference, March 2018.
- 2015-7 Member of British Council Researcher Links Review Panel & European Commission funded research Review Panel.
- 2014-5 Contributor to the International Network for Learning and Teaching in Geography.
- 2012 Runner-up (joint second prize) in Young Statisticians Group/Significance writing competition with article on sonification.
- 2008 Second Prize for Presentation at Ordnance Survey MSc Programme 2008 Day.
- 2007 CADCORP/AGI Best Student Paper at GISRUUK 2007, Maynooth, Dublin, Ireland.

Reviewer for Cartography and Geographic Information Science, Transactions in GIS, Journal of Transport and Health, British Journal of Psychiatry, Environment and Planning B, Applied Ergonomics, Ergonomics, Progress in Physical Geography and International Journal of Geographical Information Science.

Teaching Experience

- 2018-19 UCL MSc Geospatial Analysis, 3 modules: Representations, Spatial Analysis and Network Analysis (coordinated, 55 hours total)
CDRC, ADRC-E and other one day courses (coordinated, 32 hours)
- 2017-18 CDRC, University of Oxford & UCL, series of 1 day courses (coordinated, 32 hours)
American University of Beirut, Lebanon, (coordinated, 24 hours)
Various Training Day Courses (coordinated, 56 hours)
- 2016-17 UEA, GIS for Resource Management (coordinated, 25 hours)
University of Essex, Geocomputation and Analysis (coordinated, 17.5 hours)
Various Training Day Courses (coordinated, 63 hours)
- 2015-16 UEA, GIS for Resource Management (coordinated, 25 hours)
University of Kent, GIS for Social Data and Crisis Mapping (coordinated, 21 hours)
Various Training Day Courses (coordinated, 42 hours)
- 2014-15 ENVS257 Applied GIS and Modelling (coordinated, 30 hours)
ENVS357/557 Understanding Social Exclusion (6 hours)
UEA, GIS for Resource Management (coordinated, 25 hours)
UEA, Methods in Human Geography (18 hours)
University of Essex, Geocomputation and Analysis (coordinated, 35 hours)
- 2013-14 ENVS257 Applied GIS and Modelling (coordinated, 18 hours)
ENVS357/557 Understanding Social Exclusion (4 hours)

UEA, GIS for Resource Management (coordinated, 25 hours)

University of Exeter, Grand Challenges (31 hours)

University of Exeter, MSc Environment & Human Health, GIS Module (6 hours)

2011-13 Various teaching commitments (total 93 hours)

Membership of Professional Bodies

Associate Fellow of the Higher Education Authority (PR079383)

Chartered Geographer (GIS) and Fellow of Royal Geographical Society (with Institute of British Geographers) (945325)

Member of International Network for Learning and Teaching in Geography

Publications

Refereed Academic Journal Papers Published

Lloyd, C. D., Catney, G., Williamson, P. and **Bearman, N.** (2017) Exploring the utility of grids for analysing long term population change. *Computers, Environment and Urban Systems*, 66, 1–12. [doi:10.1016/j.compenvurbsys.2017.07.003](https://doi.org/10.1016/j.compenvurbsys.2017.07.003).

Bearman, N., Jones, N., Margarida De Almeida Andr e, I., Cachinho, H., and DeMers, M. (2016) What should be the role of GIS education in creating critical spatial thinkers?, *Journal of Geography in Higher Education*. [doi:10.1080/03098265.2016.1144729](https://doi.org/10.1080/03098265.2016.1144729). *Impact Factor: 1.156*

Bearman, N., Dyer, S., Walkington, H. and Wyse, S. (2015) Letter to the editor: The power of collective tactics: response to Peters and Turner, *Environment and Planning A*, 47(4) p 1015 – 1016.

Bearman, N., Munday, P. & McAvoy, D. (2015) Teaching GIS in International Development as an Employability Skill, *Journal of Geography in Higher Education*, 39(2) p. 237-244, [doi:10.1080/03098265.2015.1010146](https://doi.org/10.1080/03098265.2015.1010146). *Impact Factor: 1.156*

Shiue, I., Perkins, D.R., & Bearman, N. (2015) Hospital admissions due to diseases of arteries and veins peaked at physiological equivalent temperature –10 to 10 °C in Germany in 2009–2011, *Environmental Science and Pollution Research*, [doi:10.1007/s11356-015-5791-x](https://doi.org/10.1007/s11356-015-5791-x). *Impact Factor: 2.757*

Shiue, I., Perkins, D.R. & **Bearman, N.** (2015) Physically equivalent temperature and mental and behavioural disorders in Germany in 2009–2011, *Journal of Mental Health*.

Shiue, I., & **Bearman, N.** (2015) Modelling building attributable risks from the built year: Results from Scottish Housing Condition Survey 2009, *Journal of Building Survey, Appraisal & Valuation*, 4(1) p. 78-87.

Shiue, I., Perkins, D.R., & **Bearman, N.** (2015) Inverted U-shape relationships of the weather as bio-meteorological and hospital admissions due to carcinoma in situ and benign neoplasm in Germany in 2009–2011, *Environmental Science and Pollution Research*, [doi:10.1007/s11356-015-4095-5](https://doi.org/10.1007/s11356-015-4095-5). *Impact Factor: 2.757*

Shiue, I., Perkins, D.R., & **Bearman, N.** (2015) Relationships of physiologically equivalent temperature and hospital admissions due to I30–I51 other forms of heart disease in Germany in 2009–2011, *Environmental Science and Pollution Research*, [doi:10.1007/s11356-015-5727-5](https://doi.org/10.1007/s11356-015-5727-5). *Impact Factor: 2.757*

Bearman, N. & Singleton, A. (2014) Modelling the potential health and CO₂ impact of increased uptake of active transport for home to school travel using individual level data, *Journal of Transport and Health*, [doi:10.1016/j.jth.2014.09.009](https://doi.org/10.1016/j.jth.2014.09.009). *Open Access, new journal*

Sharpe, R.A., **Bearman, N.**, Thornton, C.R., Huck, K. & Osborne, N.J. (2014) Indoor fungal diversity modifies the risk of asthma: a systematic review, *Journal of Allergy and Clinical Immunology*, doi:[10.1016/j.jaci.2014.07.002](https://doi.org/10.1016/j.jaci.2014.07.002). *Impact Factor: 12.047*

Shiue, I., Perkins, D.R. & **Bearman, N.** (2014) Valve disease and hypotension hospital admissions peaked at physiologically equivalent temperature 0–5 °C in Germany in 2009–2011, *International Journal of Cardiology*, doi:[10.1016/j.ijcard.2014.09.066](https://doi.org/10.1016/j.ijcard.2014.09.066). *Impact Factor: 6.175*

Shiue, I., Muthers, S. & **Bearman, N.** (2014) The role of cold stress in predicting extra cardiovascular and respiratory admissions, *International Journal of Cardiology*, doi:[10.1016/j.ijcard.2013.12.122](https://doi.org/10.1016/j.ijcard.2013.12.122). *Impact Factor: 6.175*

Bearman, N., Jones, P. & Lovett, A. (2013) Using Sound to Represent Uncertainty in UKCP09 Data with Google Maps API, *Atmospheric Science Letters*, 14(4) p. 220-226, doi:[10.1002/asl2.443](https://doi.org/10.1002/asl2.443). *Impact Factor: 1.932*

Brown, M., Sharples, S., Harding, J., Parker, C.J., **Bearman, N.**, Maguire, M., Forrest, D., Haklay, M. & Jackson, M. (2013) Usability of Geographic Information; Current Challenges and Future Directions, *Applied Ergonomics*, 44(6) p. 855-865, doi:[10.1016/j.apergo.2012.10.013](https://doi.org/10.1016/j.apergo.2012.10.013). *Impact Factor: 1.428*

Bearman, N. & Appleton, K. (2012) Using Google Maps to collect spatial responses in a survey environment, *Area*. doi:[10.1111/j.1475-4762.2012.01081.x](https://doi.org/10.1111/j.1475-4762.2012.01081.x). *Impact Factor: 1.368*

Bearman, N. & Fisher, P. F. (2011) Using sound to represent spatial data in ArcGIS, *Computers & Geosciences*. doi:[10.1016/j.cageo.2011.12.001](https://doi.org/10.1016/j.cageo.2011.12.001). *Impact Factor: 1.429*

Bearman, N. & Lovett, A. (2010) Using Sound to Represent Positional Accuracy of Address Locations, *The Cartographic Journal*, Volume 47, Number 4, pp. 308-314(7). doi:[10.1179/000870410X12911302296833](https://doi.org/10.1179/000870410X12911302296833). *Impact Factor: 0.59*

Conference Presentations

Bearman, N. (2016) PopChange – Improving access to UK wide census data, Presented 18/11/2016 at ODI Lunchtime Seminar Series, Open Data Institute, London, UK.

Bearman, N. & Lloyd, C.D. (2016) Creating Population Surfaces for the Analysis of Small Area Change, Presented 07/09/2015 at British Society for Population Studies, University of Leeds.

Bearman, N. & Singleton, A. (2015) TravelOAC: development of travel geodemographic classifications for England and Wales based on open data, Presented 15/04/2015 at GISRUUK2015 Conference, University of Leeds, UK.

Bearman, N. & Singleton, A. (2014) Modelling home to school travel for state pupils in England, 2008-2011, Presented 18/04/2014 at GISRUUK 2014 Conference, University of Glasgow, UK.

Bearman, N., Wheeler, B. & Sabel, C. (2013) Small-area geographies of mental health in England, Presented 19/06/2013 at URISA GIS in Public Health conference, Miami, USA.

Bearman, N., Osborne, N.J. & Sabel, C. (2013) Analysing the Impact of MAUP on the March of Atopy in England using Hospital Admission Data. Presented at GISRUUK2013 Conference, University of Liverpool, UK.

Bearman, N. & Brown, E. (2012) Who's Sonifying Data and How are they doing it? A comparison of ICAD and other venues since 2009, Presented 18/06/2012 at The 18th International Conference on Auditory Display (ICAD-2012), Atlanta, USA.

Bearman, N., Jones, P. & Lovett, A. (2011) Using Sound to Represent Uncertainty in UK Climate Predictions 2009 Data: Communication of Uncertainty, From Climate Research to Climate Services workshop, Presented 29/06/2011 at Royal Meteorological Society Conference, Exeter, UK.

Bearman, N. (2011) Using Sound to Represent Uncertainty in Future Climate Predictions for the UK, Presented 23/06/2011 at The 17th International Conference on Auditory Display (ICAD-2011), Budapest, Hungary.

Bearman, N. & Appleton, K. (2011) Using Google Maps to collect spatial responses in a survey environment, Presented 28/04/2011 at GISRUK 2011 Conference, University of Portsmouth, UK. *I would like to thank the Quantitative Methods Research Group of the RGS-IBG for financial support towards the cost of presenting at the conference.*

Bearman, N. & Lovett, A. (2010) Using Sound to Represent Positional Accuracy of Address Locations, Presented 23/07/2010 at Accuracy 2010 Conference, University of Leicester, Leicester, UK.

Bearman, N. & Lovett, A. (2010) Using Sound to Represent Uncertainty in Address Locations, Presented 16/04/2010 at GISRUK 2010 Conference, UCL, London, UK. *I would like to thank the GISc Research Group of the RGS-IBG for financial support towards the cost of presenting at the GISRUK 2010 conference in London*

Bearman, N. (2010) Usability of GI – Case Study using Address Locations, Presented 23/03/2010 at 2nd Workshop on Usability of Geographic Information, London, UK.

Bearman, N. (2008) Using Sound to Represent Spatial Data in ArcGIS, Presented 12/09/2008 at Ordnance Survey MSc Programme 2008 Day, Southampton, UK. *Joint Second Prize*

Bearman, N. & Tate, N. (2007) Representing Spatial Geographical Data via variations of Volume and Tempo in Sound, Presented at GISRUK 2007 Conference, Maynooth, Dublin, Ireland. *CADCORP/AGI Best Student Paper*

Invited Presentations

Bearman, N. (2018) PopChange and geostatistical ways of looking at segregation, Presented 04/07/2018 in session on Multiscale measures of segregation data at ESRC Research Methods Festival, University of Bath, Bath, UK.

Bearman, N. (2015) GIS Innovations in Mapping for Planning Support Staff, Presented 12/02/2015 at RTPi North West Update for Support Staff, Manchester, UK.

Bearman, N. (2014) Sonification of spatial data: combining vision and sound, Presented 10/10/2014 at Hearing-in: Philosophical perspectives on sonification, Institute of Philosophy, School of Advanced Study, University of London, London, UK.

Bearman, N. (2011) Using Sound to Augment 'the Image', Presented 09/06/2011 at The British Cartographic Society Annual Symposium 2011, Cheshire, UK.

Magazine Articles & Installations

Bearman, N. (2018) Scotland's most remote islands don't want to be in 'inset maps' any more, The Conversation, 6th Nov 2018, <https://theconversation.com/scotlands-most-remote-islands-dont-want-to-be-in-inset-maps-any-more-106139>

Bearman, N. (2018) QGIS: What Is It and How Does It Work?, xyHt magazine, September 2018, <https://www.xyht.com/spatial-itgis/qgis-what-is-it-and-how-does-it-work/>

Bearman, N. (2018) Book review: Cartography: An Introduction, Society of Cartographers Bulletin, 51, June 2018, https://societyofcartographers.files.wordpress.com/2018/06/soc_bulletin_vol_51_reviews.pdf

Bearman, N. (2013) Data and big data, In: Gonzalez, C.R. & Rabajoli, E., London in the Future exhibition, 9th – 22nd September 2013, Rich Mix, Shoreditch, London, UK.

Brown, E. & **Bearman, N.** (2012) Listening to uncertainty: Information that sings, Significance, 9(5) p. 14-17. [doi:10.1111/j.1740-9713.2012.00601.x](https://doi.org/10.1111/j.1740-9713.2012.00601.x). *Runner-up in Young Statisticians Group/Significance writing competition.*

Bearman, N. & Appleton, K. (2012) Finding your way with Google Maps, GeoConnexionUK, 10(3) p. 54-55.

Please see my website – <http://www.nickbearman.me.uk/publications/>
– for copies of the papers and more details.