# Dr. DAN WEAVER

**Phone: +44 (0)7913 985890, Email: danofweaver@gmail.com**
**www.DrDanWeaver.com , 37, British**

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*Expertise:* **Spatial & Big Data, Teaching & Training, R&D, Machine & Business Intelligence.**

*Experience:* 15 years **Teaching and Training** 10 years **Research and Development** 10 years **Software and Web Engineering** 8 years **Project and People Management** 5 years **Sales and Technical Support.**

*Qualifications:* **PhD Spatio-Temporal Computation** (Dec 2013, UniNotts, scholarship). **MSc Geographical Information Science** (UniNotts, EU scholarship). **MRes Disaster Management** (UniCoventry). **BSc Information Systems and Management** (2.1 UniLeeds).

*Personal:* Native English, Spanish, yoga, cycling, camping, walking, windsurf and SCUBA (divemaster).

*Keywords:* Teaching, Training, Geomatics, GIS, Epidemiology, ArcGIS, ESRI, MapWindow, Google Earth, Visual Basic, VB, VR, Dot Net, Vector/Raster Programming, Neural Network, Remote Sensing, IT, Hazards, Vulnerability, Development, Sustainability, Flood Mapping, CSS, Javascript, PHP, Netbeans, Web Development.

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## PROFESSIONAL HIGHLIGHTS

### Research and Teaching Associate, School of Geography, University of Nottingham *(2006- 2013)*

- GISTSOM project: Development of neural network GIS system for epidemiology. Teaching responsibilities included GIS learning lab demonstation and management, 120 students per session.
- DELVE project: Design of Learning Spaces in 3-D Virtual Environments. JISC (Joint Information Systems Committee) funded joint venture (University of Nottingham & The Open University). Virtual reality. Developed a realistic 3D virtual-lake-district and taught MSc students within it.

### IT Course Leader, Euro Training College, London *(2003- 2005)*

- Trained students in Business Technology including databases, spreadsheets & Internet skills.
- Managed and maintained multi-site computer training suites.

### Project Manager, Alcatel University, Madrid *(2001-3)*

- Designed and implemented multi-level, multi-media syllabus across two sites (200 students).
- Taught sessions with twenty students following up to five separate activities.

### Web Developer, Public Service *(2008+)*

- Developed and deployed educational websites as public service and skill development.
- www.SearchCredible.com: Meta search engine for searching credible resources.
- www.DeweyDigger.com: Knowledge exploration using Dewey Decimal system.
- www.JogLab.com: Poetry website featuring acrostic poem, backronym and mnemonic creation.
- www.SimileSmiles.com: Simile fun. Sites incorporate social media, javascript, JQuery, HTML, PHP, analytics and other web technologies. Sites approach 250,000 visitors annually.

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## PUBLICATION TITLES

- The use of Kohonen mapping for the elucidation of space-time trajectories of multiple parameters: potential applications in fluvial geomorphology. GISRUK.
- Space-time trajectories in a planar and torus-based self-organising map: the importance of eliminating boundary effects. GISRUK.
- Learner immersion and engagement in the 3D virtual world: principles emerging from the DELVE project. AAG.
- Wading through Derwent Water: taking terrains from the real world to Second Life. GISRUK.
- Self-organising maps and boundary effects: assessing the benefits of a toroidal projection. Pattern Analysis and Applications.

# EDUCATION

*2010- 2013*    **Ph.D Geographical Information Systems *(University of Nottingham, scholarship)***
**Thesis:** *Spatio-temporal Computation: Applying Kohonen Networks to Epidemiology.*
Research, software development and teaching of computational geography.

*2005- 2006*    **M.Sc. Geographical Information Science *(U of Nottingham, EU scholarship)***
**Skill Areas:** Programming; Modelling, Mapping & Visualisation; Spatial Data Analysis; Image Processing; Environmental Remote Sensing; Spatial Modelling; Data Capture, Storage & Management. Neural Networks for Multi- Variate Spatio-Temporal Analysis.

*2003- 2005*    **M.Sc. Disaster Management by Research *(University of Coventry)***
**Thesis:** *Disaster Management and Development in Honduras: Flooding and Vulnerability Reduction.* Included one year living and working in Honduras living with rural locals and working alongside various development organisations such as Trocaire, The UN, The Red Cross and ERIC. Numerous disaster and development models and approaches (amongst them SL, Access, PAR, FEMA) relating to flood hazards and vulnerability examined and utilised via workshops & interviews.

*1996-99*    **B.Sc. Information Systems with Management 2.1 (hons) *(University of Leeds)***
**B.I.T. Annual University prize:** *Student fostering best interaction.*

**Qualifying IS Modules:** Systems Analysis; Information Systems Practice; Database Principles & Practice; Simulation Methods for Management and Industry; Commercial IS Development; Human Aspects of Computer Systems; Office Automation; Professional Development. **Qualifying Management Modules:** Organisational Design; Strategic Management; Human Resource Management; Management Economics; Marketing & International Marketing; Operational Research.

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# GENERAL INTERESTS

A dependable, diplomatic and gregarious character. I've lived and worked in England, Argentina, Honduras, Bangladesh, New Zealand and Spain. I regularly enjoy cycling, camping, walking, windsurfing and SCUBA diving (Divemaster). I speak native English and good Spanish and love cross-cultural interaction and learning. I contribute to the wider community by volunteering (e.g. outdoor education for physically challenged children, London) and producing public-service educational websites (see DrDanWeaver.com for links). I'm an expert user of most common software and Internet sites. Sustainable living is a keen interest and I've constructed earth-engineered buildings and benefitted from living on sustainable technology and agriculture projects.

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# REFERENCES

Any level or sector available. Contact Dan or agent.