

Dr. DAN WEAVER



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www.DrDanWeaver.com , 1976 England UK

Expertise: Data Scientist, Designer, Analyst, Massive Open Online Courses (MOOC), Spatial & Big Data, Teaching & Training, Virtual Reality, Neural Networks, Machine Intelligence, Disease Mapping,.

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 (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, meditation, all outdoor activities, windsurf.

Keywords: Data, Training, Geomatics, GIS, Epidemiology, ArcGIS, ESRI, Google Earth, VB, VR, Dot Net, Neural Network, Remote Sensing, IT, Hazards, Vulnerability, Development, Sustainability, Flood Mapping, Web.

PUBLICATION TITLES

- Self-organising maps and boundary effects: assessing the benefits of a toroidal projection (2011, Pattern Analysis and Applications, 14 (2), 139-148)
- Learner immersion and engagement in the 3D virtual world: principles emerging from the DELVE project (2009, ITALICS, 8, 3, 40-55)
- Wading through Derwent Water: taking terrains from the real world to Second Life (2009, GISRUK).
- The use of Kohonen mapping for the elucidation of space-time trajectories of multiple parameters: potential applications in fluvial geomorphology (2008, GISRUK)
- Space-time trajectories in a planar and torus-based self-organising map: the importance of eliminating boundary effects (2008, GISRUK)

PROFESSIONAL HIGHLIGHTS

Lecturer, University of Nottingham, Malaysia (2014- present)

- Created website, content, coursework, examinations and 9 hours of activity-based-learning seminars for naturalresourcesofmalaysia.com, Faculty of Social Sciences.
- Successfully delivered full course of study 3 times over 2015-16. Highly enthusiastic students including cohorts who would traditionally be less engaged in study.
- Delivered Computer Security and Computer Communications lectures, School of Computer Science.

Research and Teaching Associate, School of Geography, University of Nottingham (2006- 2010)

- GISTSOM project: Development of neural network GIS system for epidemiology. Teaching responsibilities included GIS learning lab demonstration 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 (2000+)

- E.g. SimileSmiles.com: Creative expression, SearchCredible.com: Meta search engine, DeweyDigger.com: Knowledge exploration, JogLab.com: acrostic poem and mnemonic creation.
 - Sites exceed 250,000 visitors annually & incorporate social media, JavaScript, JQuery, HTML, PHP, analytics and other web technologies.
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EDUCATION

- 2010- 2013 **Ph.D Geographical Information Systems (U of Nottingham, scholarship)**
Thesis: *Spatiotemporal Computation and Poliomyelitis.*
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.Res. Disaster Management (U 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) (U 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, Spain and Malaysia. I regularly enjoy walking, windsurfing and SCUBA (Divemaster). I speak native English and good Spanish and love cross-cultural interaction and learning. I contribute to the wider community by volunteering and engaging varied sections of the community (e.g. outdoor education for physically challenged children, London; mindfulness and dance, Kuala Lumpur) 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.

REFERENCES All levels and sectors. Please email Dan or agent.