

Dr. DAN WEAVER

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Learning Systems Architect, Lecturer, Data Scientist, Spatial & Big Data, Designer, Analyst, Massive Open Online Courses, Teaching & Training, Virtual Reality, Neural Networks, Machine Intelligence, Computer Security

Experience: 25 years Teaching and Training 20 years Research and Development 20 years Software and Web Engineering 15 years Project and People Management 8 years Sales and Technical Support

Formals: 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, decent Spanish, meditation, kitesurf, SUP, hiking, any outdoor stuff.

Keywords: EdTech, Geomatics, GIS, Coding, Epidemiology, Google Earth, VR, Neural Networks, Remote Sensing, IT, Hazards, Vulnerability, Development, Sustainability, Mapping.

PROFESSIONAL HIGHLIGHTS

Consultant, Robust Themes Framework, Global, Remote (2020- 2025)

- E-Learning consultant, multi-national E-Education leader robust-themes.com

Assistant Professor, University of Nottingham, Malaysia (2014- 2020)

- E-Learning Developer & Lecturer: Bangladesh College Education Development Project.
- Lecturer: Computer Communications; Computer Security; Global Issues (conflict & collaboration, sustainability & strategy) Schools of Computer Science & Education.
- Created website, content, coursework, examinations and 9 hours of activity-based-learning seminars for Natural Resources of Malaysia, School of Environmental Sciences.

Researcher and Teaching Associate, University of Nottingham, UK (2006- 2014)

- GISTSOM project: Development of neural network GIS system for data-mining and epidemiology. Teaching included running GIS learning lab, 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, multimedia syllabus across two sites (200 students).
- Taught sessions with twenty students following up to five separate activities.

Web Developer, Public Service & Hobbyist (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.

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)

EDUCATION

- 2010- 2013 **Ph.D Spatio-Temporal Analysis** (*U of Nottingham UK, scholarship*)
Thesis: *Spatiotemporal Computation, Artificial Intelligence and Diffusion Patterning*.
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 Multivariate 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 *DfID's SL, Access, PAR, FEMA*) flood hazard 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, Canada, New Zealand, Spain, Malaysia, Dominican Republic, Colombia & Mexico*. I enjoy walking, kitesurfing and SCUBA (half-deaf Divemaster). I speak native English and decent 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 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 benefited from living on *sustainable technology* and agriculture projects.

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