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## **Geophysics**

**Expertise** Microseismic and acoustic emission (AE) monitoring, applied seismology, induced seismicity

**Education** Ph.D. (Applied Seismology), 2004, University of Liverpool, UK  
BSc.(Licenciado), (Geology), 1998, Universidad de Granada, Spain  
BSc.(Licenciado), (Physics), 1994, Universidad de Granada, Spain

**Honors & Awards** Natural Environment Research Council: Ph.D. Research Studentship in Geophysics, 2000.  
Liverpool University Postgraduate Research in Progress, 2<sup>nd</sup> prize, for the paper “Fracture Interaction at an Underground Research Laboratory” by J. M. Reyes-Montes and R. Paul Young, 2002.

### **Professional Experience**

*Applied Seismology Consultants, Shrewsbury, UK*  
2008 - Present Senior Geophysicist  
2005-2008 Consultant Geophysicist  
2001-2004 Department of Earth and Ocean Sciences, University of Liverpool, UK  
Postgraduate Student Demonstrator  
1999 - 2000 Colegio SEK-Alboran (Almeria, Spain), Teacher and Tutor (Science)  
1998-1999 Parque de las Ciencias (Granada, Spain), Demonstrator and Curator  
1998 Universidad de Granada, Spain, Assistant Lecturer

### **Project Experience**

**Microseismics:** Expert in the field of microseismic and acoustic emission (AE) monitoring, principally for the Mining, Radioactive Waste, Petroleum, Geothermal and Laboratory testing markets, principally working on the development and application of techniques in passive seismology applied to induced seismicity.

**Development:** Algorithm development for the *InSite Seismic Processor*, a leading commercial microseismic acquisition, processing and visualization software system. (Licensees include a number of petroleum, service, geothermal and radioactive-waste companies, as well as leading universities.) Developed techniques for statistical analysis of microseismic catalogues for the interpretation of rock fracture processes, particularly applied in the mining, petroleum and rock mechanics sectors. Design of microseismic monitoring arrays at local and regional scale.

**Project Management:** Coordination of complex research projects , from first design and proposal through to the end-report and delivery.