



GAMA GEOFÍSICA
C/ Castillo de Fuensaldaña 2
28232 Las Rozas de Madrid
Madrid - SPAIN
Tel: (0034) 916364804

Carlos Gata Maya – Project manager

Phone: +34 615558016

email: cgata@gama-geofisica.com

- **Licenciatura en Ciencias Físicas (Physics Sciences Degree), speciality in Geophysics**, in the Faculty of Physics of the Complutense University of Madrid (UCM) (1997).
- **Doctorate courses in Geophysics (1997-98 y 98-99)** in the UCM.
- Course **Sondeos y diagraffias (Well logging)** in the "Fundación Gómez-Pardo" (March, 1998).

PROFESSIONAL EXPERIENCE

2011-2018. Founder and project manager of all the geophysical surveys in **GAMA GEOFÍSICA, S.L.**

2004- 2011. Partner and project manager of the geophysical surveys with seismic, electric and GPR methods in **GEOGNOSIA, S.L.L.**

1999-2004. Geophysicist in **ORELLANA CONSULTORES S.A. (OCSA).**

1998-1999. Junior geophysicist in the mining exploration companies **Riomín Ibérica S.A.** and **Rio Tinto Finance & Exploration Portuguese Branch plc. (RIO TINTO plc. group).**

Involvement in more than 500 projects of geophysical prospecting, begin the main responsible and coordinator in more than 300 of them. These projects were developed in different countries: Spain, Portugal, Morocco, Algeria, India, Panamá, Dominican Republic. Brasil, Chile, Ecuador,... The main areas of interest in the development of these projects were the following:

- **Civil engineering:** Roads, highways, railways, high-speed railways, tunnels, dams, and pools, channelling, electric sub-stations, power stations, industrial plants, wind power plants, solar plants,...



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- **Geotechnics and construction:** Geotechnic knowledge of structures, construction forensics, location of cavities or anomalous areas in foundations,...
- **Hydrogeology:** Location of lithologies which are potential aquifers, better hydrogeological understanding of different areas, agronomy studies, research in wetlands and reservoirs, definition of marine intrusion,...
- **Mining:** Mining exploration, deep geological research for CO₂ storage or geothermal energy, surface mining studies (quarry),...
- **Environment and archaeology:** Characterization of the mining pools, study of dumping sites, contamination studies, archaeological investigation, ...

GEOPHYSICAL METHODS EMPLOYED

- **Seismic methods:** S and P waves refraction, reflexion, surface wave (MAM, REMI, MASW 1D and 2D,...), down-hole, cross-hole, seismic tomography, ...
- **Electrical methods:** Electrical tomography (ERT), vertical electrical sounding (VES), induced polarization and resistivity profiling.
- **Potential methods:** Gravimetry and magnetometry.
- **Electromagnetic methods:** Ground Penetrating Radar GPR, Time-domain Electromagnetic (TDEM), Magnetotelluric and Audio-Magnetotelluric (MT and AMT), Audio-Magnetotelluric Controlled Source (CSAMT), nanoTEM, light electromagnetic (EM-31 y EM-34),...
- **Geophysical logging.**
- **Thermal properties studies** (conductivity, resistivity, diffusivity,...).