

Curriculum Vitae

Personal information

First name / Surname **Lorena Alvarez Alvarez**
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 Nationality Spanish

Occupational field **Geologist / Hydrogeologist**

Work experience

Dates	March 2010 - Present
Occupation or position held	Researcher technician in geology and hydrogeology area
Main activities and responsibilities	<p>Main projects:</p> <ul style="list-style-type: none"> - "Hydrogeological study of Gijón Aquifer" (EMA). - "Hydrogeological study for the extension of a urban waste landfill" (COGERSA). - "Flow and heat transport numerical model in the Barredo shaft" (HUNOSA). - "Diferencial Microgravimetric control in an experiment of CO2 injection in coal" (HUNOSA). - "Hydrogeological study in the El Perceil Quarry" (Tudela Veguin, SA). <p>Groundwater numerical modelling. Field work: hydrogeology cartography, water points measurement and gaugins. Geophysics. Reports and technic dossiers.</p>
Employer	Hydro-geophysics and NDT Modeling Unit Department of Mining Exploration and Prospection – University of Oviedo
Dates	October 2007 – April 2009
Occupation or position held	Studies technician
Main activities and responsibilities	<p>Study of public bidding works. Reports and technic dossiers. Support to departments of quality (ISO 9001), environment (ISO 14001) and security (OSAS 18001).</p>
Employer	EXPROMAR, Obras y Proyectos, S.A.
Dates	December 2006 – October 2007
Occupation or position held	Geologist
Main activities and responsibilities	Geotechnical studies for building and civil projects, planning for prospecting, field work and team coordination
Employer	Compañía de Servicios Integrados de Calidad y Control (CSICC) (Quality control)

Education and training

Date	2015
Title of qualification awarded	Bachelor thesis
Principal subjects / occupational skills covered	Title: "Preliminary regional scale hydrogeological model in the Asturian Central Carboniferous Basin" Qualif.: 10
Name and type of organisation providing education and training	University of Oviedo

Date	2006
Title of qualification awarded	Long cycle degree in Geology (5 years)
Principal subjects / occupational skills covered	Petrology, Structural Geology, Tectonics, Hydrogeology, Geophysics, Environmental Geology, Engineering Geology, Energetic Resources, Geochemistry, Mineral Resources, Sedimentary Systems, Geomorphology, Paleontology, Crystallography and Mineralogy.
Name and type of organisation providing education and training	University of Oviedo

Additional education

- Technician in Occupational Risk Prevention [600 h / 2008]
- Course "GIS data formats, desing and quality" [20 h / 2016]
- Course "Fundamentals of GIS" [20 h / 2016]
- Course "Non-conventional hydrocarbons" [25 h / 2015]
- Course "Ramón Querol, Exploration and production of hydrocarbons" [75 h / 2012]
- Course "The art of science and its context" with Roel Snieder [20 h / 2011]
- Course "Specialization flow and groundwater quality" [68 h / 2010]
- Course "MT3D quality and PEST calibration" [30 h / 2010]
- Course "Modeling Subsurface Flow using FEFLOW 6" [18 h / 2010]
- Course "Computerized Geographic Information Systems" [100 h / 2009]
- Course "Concrete Analyst" [285 h / 2006]
- Course "Soil Analyst" [359 h / 2006]
- Course "The world of residue: characterization, treatment and management" [45 h / 2004]

Personal skills and competences

Mother tongue
Other language(s)

Spanish

Self-assessment

Understanding

Speaking

Writing

European level (*)

Listening

Reading

Spoken interaction

Spoken production

English

B1 Independent user

B1 Independent user

B1 Independent user

B1 Independent user

B1 Independent user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

Committed and responsible to working.
Well organized.
Ability to work in multidisciplinary and multicultural teams.

Organisational skills and competences

Good team player
Experience in team management (responsible for a team of 4 people in Geotechnical department).

Technical skills and competences

- Realize, conceptualize and modelling hydrogeological systems (flow and transport groundwater modeling) with appropriate softwares (Hydrogeological Unit).
- Program, organize and realize field work (Hydrogeological Unit and Geotechnical department).
- Collect, analyze, interpret and depict geological and hydrogeological data using appropriate field technics (geological, geophysics and hydrogeological methods) and laboratory technics (Hydrogeological Unit and Geotechnical department).
- Realize and evaluate geotechnical studies (Geotechnical department).

Computer skills and competences

- Work experience with Visual MODFLOW, SEAWAT, MT3D, Hydrogeobuilder, FEFLOW and COMSOL Multiphysics.
- Work experience with Microsoft Office tools (Word, Excell, Access, PowerPoint and Project)
- Work experience with AUTOCAD, Golden Software SURFER and ArcGIS.
- Skills of MATLAB, Microstation V8, Corel Draw, Adobe Indesing, Adobe Photoshop, Adobe Illustration and Presto
- Skills of SQL

Driving licence

B1

Additional information

Publication: Fernández-Álvarez JP, Álvarez-Álvarez L, Díaz-Noriega R (2015) Groundwater Numerical Simulation in an Open Pit Mine in Limestone Formation Using MODFLOW. Mine Water and Environment. DOI 10.1007/s10230-015-0334-8.

Publication and lecture: Álvarez-Álvarez L, Díaz-Noriega R, Fernández-Álvarez JP (2012) Groundwater numerical simulation in an open pit mine in a limestone formation using MODFLOW and FEFLOW. 7ª Portuguese-Spanish Assembly of Geodesy and Geophysics.

Publication: Díaz-Noriega R, Fernández-Álvarez JP, Álvarez-Álvarez L (2012) Comparative study of the numerical simulation codes Visual MODFLOW vs FEFLOW 6.0. 7ª Portuguese-Spanish Assembly of Geodesy and Geophysics.

Hydro-Geophysics