





PERSONAL INFORMATION

Virginia Alonso de Linaje de Nicolás



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Sex Female | Date of birth 14/03/1987 | Nationality Spanish

WORK EXPERIENCE

July 2015- Aug. 2016

**Research Assistant**

*University of Houston (Texas, U.S.A.)*

- Research Assistant at the Geo Remote Sensing Laboratory
- Hyperspectral image processing and interpretation of diagenetic processes in sandstones
- Field work data collection (Spring'15: Arkansas; Summer'15: Utah, Wyoming; Spring'16: Texas, Utah; Summer '15: Texas)
- Teaching Assistant at Geophysics Field Camp; Galveston, Texas (Ground Penetrating Radar (GPR); Electromagnetic Profiler (EMI) and GPS)

Feb. 2012- July 2013

**Research Assistant**

*Complutense University of Madrid (Madrid, Spain)*

- Evaluation of water resources trends, variables, models, scenarios worldwide and in the European Union.
- Development of a water resources model to understand the trade-off's, challenges and opportunities between energy technologies and water-energy-food nexus.
- Water footprint accounting in the energy production sector in Latin American context.
- Delphi survey development in water-energy-food nexus.
- Associate teacher at hydrogeology field work courses.

Feb. 2011-Feb. 2012

**Internship**

*Repsol Technology Centre (Madrid, Spain)*

- Research assistant in the implementation of new methods for soil characterization, monitoring, and remediation.
- Monitoring of oil spills in gas stations.
- Bibliographic research at water footprint, exergy concept, Corporate Ecosystem Valuation (CEV).

EDUCATION AND TRAINING

Aug. 2014- Sep. 2016

**M.Sc. in Applied Geology**

*University of Houston (Texas, U.S.A.)*

*Thesis:* Multi-scale mapping of diagenetic processes in sandstone using imaging spectroscopy. A case study of the Frontier Formation (Wyoming, U.S.A) and the Utrillas Formation (Burgos, Spain).

*Relevant course work:* Remote Sensing; Introduction to Geographic Information Systems (GIS), Sequence Stratigraphy; Sequence Stratigraphy in the Field (Book Cliffs, Utah) Sandstone Petrography, Structural Geology; Basin Analysis and Petroleum System Analysis.

Jan. 2014- May 2014 **English training program**  
*English Language Institute-University of Houston-Downtown (Texas, U.S.A.)*  
 6th level and 7th level (C1).

Oct. 2013- Sep. 2015 **Postgraduate course in Groundwater Hydrology (Off-campus)**  
*Polytechnic University of Catalonia-FCIHS (Spain).*

*Thesis:* Hydrogeologic study of the Quaternary alluvial aquifer at Zapardiel and Batan basins (Vitoria-Gasteiz, Spain).

Sep. 2005-Sep. 2010 **B.Sc. in Geology**  
*University of the Basque Country (Spain).*  
 Last year of degree at Cardiff University (UK) (Erasmus Exchange Programme).

PERSONAL SKILLS

Mother tongue(s) Spanish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Profident user	Profident user	Profident user	Profident user	Profident user
IELTS (2014) Grade: 7/9 (C1)					
French	A2	A2	A1	A1	A1
Four years of French as a third language at school					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Profident user	Profident user	Profident user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificate(s)

- *Computer programs:* Microsoft Office, ENVI, ArcGIS, Petrel, Freehand, Microsoft Office
- *Technical skills:* Hyperspectral cameras; GPR; GPS; EMI

Driving licence B

**Social and academic activities** Volunteer for four month at a non-profit organization (Medicus Mundi) assisting in the development of a water resources and sanitation project. The activities included: technical support, project monitoring, given awareness workshops on children and Water Committees (Honduras, Jul-Oct 2013).

Volunteer for 4 years in World Geologist, a non-profit organization. The activities included: events management and project management (2009-2013)

Volunteer for a month at a non-profit organization (Worldwide Friends) helping in the management of creativity and young art events at Lungafest (Iceland, August 2010).

## ADDITIONAL INFORMATION

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**Publications** López-Gunn, E., Akhmouch, A., Aldaya, M., **Alonso de Linaje, V.**, Ballesteros, M., Bea, M., Hirata, R., Kuroiwa, J., Mayor, B., Pérez, L., Phumpiu-Chang, P., Scott, C., Villarroya, F., Zorrilla-Miras (2014), Rethinking integrated water resources management: towards water and food security through adaptive management, In: Willaarts, B.A., Garrido, A., Llamas, M.R. (Eds.), Water for Food and Wellbeing in Latin America and the Caribbean. Social and Environmental Implications for a Globalized Economy. Routledge, Oxon and New York, pp. 385-417.

**Alonso de Linaje V.**, Fernández-Lerín, B et al., (2009) Turbiditas carbonatadas en la Playa de Muriola (Barrika,ArcoVasco): edad, deformación, contenidos de CaCO<sub>3</sub>, y presencia de barita diagenética; *Geogaceta* 47, 69-72 ISSN: 0213683X

**Presentations** **Alonso de Linaje, V.**, Khan S., Multi-Scale Mapping of Diagenetic Processes in Sandstone Using Imaging Spectroscopy. A Case Study on the Frontier Formation (Wyoming, U.S.A). Poster presented at: 31st Student Research Day at Earth and Atmospheric Science; University of Houston; Apr. 29, 2016 Houston, US.

**Alonso de Linaje, V.**, Khan S., Bhattacharya J.P. Relative Abundance of Diagenetic Processes Using Close-Range Hyperspectral Data in Deltaic Deposits of Frontier Formation, Wyoming. Poster presented at: American Geophysical Union 2016 Fall Meeting Conference, Dec 12-16, San Francisco, US.

**Honours and awards** University of Houston Alumni Association scholarship (Fall 2015)  
Basque Youth Volunteering Grant- by The Basque Country Government (July 2013)  
Optimus fellowship- by The Spanish Government (2011-2012)  
Erasmus Mundus scholarship- by The Spanish Government (1st semester 2011)  
Erasmus Mundus scholarship by the Bilbao Bizkaia Kutxa (BBK) (2nd semester 2011)