PERSONAL INFORMATION César Rodríguez Pereira M

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Sex Male | Date of birth 10/04/1993 | Nationality Spanish

WORK EXPERIENCE	
February 2016 - Present	R&D Engineer
	Hydrogeophysics and NDT Modelling Unit, University of Oviedo
	 Hydrogeological modelling using FEM/FDM software (COMSOL Multiphysics, MODFLOW, Soilvision) Projects involving mine tailings drainage, variably saturated groundwater modelling, two-phase flow, contaminant transport. Field support in geophysical surveys involving the use of GPR, ERT and TDEM. Scientific oriented work, involving informative activities (classes, conferences), data management and visualization with GIS, and bibliographical research.
October 2014-January 2015 June 2015	Private Tutor
	Academia Técnica, Mieres
	 Subject: Computing Fundamentals (basic Python programming and databases). Over 60 teaching hours for a group of 7-10 first year engineering students.
EDUCATION AND TRAINING	
2017 - 2019	MSc. in Civil Engineering University of Oviedo
	 Two-year master's degree covering subjects such as urban planning, advanced mathematic and numerical modelling, wastewater treatment, geophysical surveying, GIS and remote sensing. Water technologies specialization.
2011 - 2017	BSc. in Civil Engineering Graduate
	University of Oviedo
	 Dual specialization in hydrology and civil constructions. Wide scope degree, spanning subjects as diverse as geology, fluid mechanics, materials science, structural calculus, soil mechanics and marine structures. Strong mathematical foundation.
PERSONAL SKILLS	
Mother tongue(s)	Spanish
Other language(s)	English. C2 (EFCELT), C1 (Official School of Languages).
	French. Basic written understanding.
Communication skills	 Accustomed to working in multidisciplinary projects, having had to work with geologists, physicists, mathematicians and other engineers while at the Hydrogeophysics and NDT modelling unit. Strong foundation on making clean and informative data visualizations, given by a science-oriented background. Comfortable speaking to large audiences.

Organisational / managerial skills	Strong sense of organisation and planning, while maintaining the ability to adapt to changing
	situations (i.e. having to switch to another modelling software while maintaining the project delivery
	date).

Job-related skills • Good hydrogeological modelling knowledge.

- Ease to learn new programming languages and computing processes due to continuous work with different types of software involving scripting.
- Strong foundation of deterministic modelling, and ease to comprehend other types of mathematical problems.
- Basic knowledge of NAPLs flow physics.

Digital skills Proficient Office Suite User

- Comfortable with many groundwater modelling programs.
- Experience programming MATLAB both for modelling and data visualization.
- Experience with Python, both programming and teaching.
- Good command of Geographic Information Systems (GIS), especially using ArcGIS.
- SQL experience obtained through the creation and use of geodatabases.
- Experience using AutoCAD and similar engineering software.
- Comfortable with the Linux environment.

Driving licence B

ADDITIONAL INFORMATION

- Presentations Two times speaker at University of Oviedo's "Jornadas de I+D+I en Ingeniería Civil", regarding groundwater FEM modelling with COMSOL Multyphysics.
 - Publications Co-author: Alonso Iglesias, G. et al. (2019). Regeneración ambiental y nuevos usos de los baldíos industriales en el eje fluvial de Langreo. *Naturalia Cantabricae* 7(1): 1-14.
 - Editor: Libro de resúmenes de las 2as Jornadas de Investigación, Desarrollo e Innovación en Ingeniería Civil (JIDIIC2018).

Certifications

- Fundamentals of GIS by University of California, Davis on Coursera. February 2017.
- GIS Data Formats, Design and Quality by University of California, Davis on Coursera. August 2017.
- III Hidrogeologic Modelling course, Oviedo (España). 28 hours. AIH-GE. July 2018.
- Introduction to Data Science in Python by University of Michigan on Coursera. May 2019.