

José R. Campos T.

Curriculum Vitæ

Available for internship

Madrid, Spain

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[ralfcam.github.io](https://github.com/ralfcam)

Date of Birth 10/15/90

Portfolio [Github Enthusiast](#), [kaggle Expert](#)

Competence areas Geosciences, Data Science, Statistical Learning, Research And Development

Positions

- JUN 2018 - APR 2019** **Research & Development at Repsol Technology Lab, Móstoles**
- **Petrophysics: Application of Machine Learning (ML)** models to mudlogging data for wireline **series regression**; Application of **ML models** to drill cuttings sections for image **classification and segmentation**, (incl.: use case definition, exploratory data analysis, outlier detection, feature generation and selection, model design and assessment, reporting).
 - **Geomechanics: Software Development** with **Java** and **Matlab** for wellbore instability analysis (incl.: software debugging & documentation, algorithm engineering & implementation).
- OCT 2015 - JUL 2017** **Geophysical Engineer at Geo&Amb, Santiago de Chile**
- **Electromagnetic Methods** for near-surface geophysical prospection and geological characterization.
- FEB 2015 - MAY 2015** **Geophysical Engineer at FUNVISIS** (Venezuela Foundation for Seismological Research) & **GFZ Potsdam** (German Research Centre for Geosciences).
- JAN 2015 - FEB 2015** **Exploration Geophysicist at PDVSA** (Petroleum of Venezuela) — Venezuela. GIAME project (Lithospheric scale modeling of the Merida Andes).
- MAR 2014 - MAY 2014** **Exploration Geophysicist at FUNVISIS & Rice University** Venezuela. Seismic data acquisition.

Academic Formation

- SEP 2017 - JUL 2018** **MSc.** in Reservoir Geology and Geophysics at the Universitat de Barcelona (UB) & Autonomous University of Barcelona (UAB);
Dissertation: Enhancing of magnetotelluric signals with machine learning (RNN) in Python. **(9/10 - Honor Mention)**.
- OCT 2008 - DEC 2013** **B.Eng.** Geophysical Engineer. Universidad Central De Venezuela (UCV);
Dissertation: Acquisition and processing of gravimetric and magnetic data across the Merida Andes. **(10/10 - Honor Mention)**.

Competencies & Personal Skills

Competencies **Machine Learning** (e.g., Boosted Trees, Deep Learning, Clustering, Dimensionality reduction, Anomaly Detection, Ensembling), **Statistics** (e.g., Frequentist Statistics, Exploratory Data Analysis, Bayesian inference, Regression analysis), **Data Engineering** (e.g., Feature extraction, Big Data Manipulation), **Scaled Computing** (e.g., Multiprocessing, Dask, Spark, Hadoop, Cloud computing), **Mathematics and Physics** (e.g., Signal Processing, Optimization, Inverse Problem, Numerical Methods, Electromagnetism, Rock Physics), **Geosciences** (Potential-field Methods, Electromagnetic Methods, 3D modelling, Reservoir Characterization, Seismology & Seismic, Geomechanics, Sedimentology, Structural Geology, Petrophysics).

Languages **Spanish** (Native), **English** (IELTS Band: 7/C1), **French** (Alliance Française: B2).

Programming Skills Python (4), R (3), Matlab (4), JavaScript (3), HTML5/CSS3 (3), Java(2).
Database Pandas (4), MySQL (2), MongoDB (1).
Frameworks Dash (3), React (2), TensorFlow (2), Django (1).
Ides PyCharm (4), IPython / Jupyter (4), IntelliJ (3), PhpStorm (3), R Studio (2).
Platforms Linux Desktop / Shell (3), Docker (1).

Relevant Coursework

MAR 2019 Advanced Machine Learning Specialization. Higher School of Economics (RU).
JAN 2018 Deep Learning Specialization. Stanford University.
JAN 2018 - MAR 2018 Machine Learning. Stanford University.
APR 2017 Full Stack Development. Codecamp Org.
MAY 2016 - JUL 2016 R Programming. Johns Hopkins University.

Activities And Societies

JAN 2019 Kaggle Days Madrid Member
JAN 2013 - DEC 2014 Student's spokesperson before the school council. (UCV).
JAN 2012 - DEC 2014 General secretary of the student's representation. (UCV).
JAN 2012 Student Member. Society of Exploration Geophysicists (SEG).

Publications

JAN 2018 Peña, Andrea & Cajas, Miguel & Campos, Jose (2018). Application of Machine Learning models in thin sections images of drill cuttings: lithology classification and quantification, EAGE (Conference Paper).
OCT 2014 Campos, Jose & Sanchez, Javier & Orihuela, Nuris & Schmitz, Michael. (2014). Gravimetry of northwestern Venezuela, JIFI - EAI - UCV (Conference Paper).