RONAL MANUEL CORONADO, M.Sc.

Geosciences Applied to Petroleum/Geophysicist/ Physicist

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EXECUTIVE SUMMARY

- Quantitative seismologist/petrophysicist proficient in neural networks,genetic inversion, geostatistics, seismic modeling and well-log analysis.
- Studies, hands-on capabilities in 3D visualization and seismic interpretation, attribute calibration, using commercial software, such as Petrel™, Opendtect™, and SMT Kingdom Suite™. Abilities writing code skills using MatLab and C Language.
- Mentality working in teams, good communicator and easy adaptability to work groups with persons have different cultures. Honest, loyal, open, sincere, hard worker and joyful. Fluent in Spanish, Intermediate in English
- Specialities: Seismic interpretation, seismic attributes spectral decomposition, petrophysical and facies modeling, well log interpretation, and evaluation of exploration risks. Additionally, I am researching and developing codes about seismic modeling and inversion.

WORK EXPERIENCE

Professor, Universidad Central de Venezuela*, Caracas, Venezuela*   October, 2014 – Present

- Description: I am researcher in the area of applied physics, in particular, the inversion and modeling in seismic waves.

Research Assistant, Universidad Simón Bolívar*, Miranda, Venezuela.*   September, 2010 – December, 2013

- Responsibilities: Create laboratories and exercises for courses of Computational Geophysics, Waves and Filters, and provide support for different software platforms such as Petrel, Kingdom Suite, OpendTech.
- Project: Imperial Barrel Award, Exploration opportunities in South Australia; a Cooper-Eromanga Prospects Evaluation, with the following project phases: **Facies Modeling, Seismic Interpretation, Petroleum System Analysis, Prospects and Risk Evaluation, Economic Assessment and Drilling Proposal**.

Trainee of Strategy, Econoinvest C.A*, Caracas, Venezuela*   April, 2010 – June, 2009

- Project: Applicantions of Neural Networks to inference the stock as Standard and Poor's 500.
- Description: Analysis of National and International Financial Market.

EDUCATION

M.Sc. Earth Sciences, Geosciences Applied to Petroleum, Universidad Simón Bolívar*, Venezuela.* **GPA 3.68 out of 4.0**.
Graduated: October, 2014

Thesis: Sedimentary Facies Modeling in The Lama Field, Maracaibo Lake, using Truncated Gaussian Simulation. (Advisor: Dr. Milagrosa Aldana). **M.Sc. Thesis with Honors**.

Description: In this work proposes a methodology to discriminate facies by integrating well logs and 3D seismic using the algorithm of Gaussian Truncated Simulation in the area the Lama Field. Structural and seismic stratigraphic interpretation of the sand C4 was performed with the Software Petrel. Spectral decomposition results reveal an anomalous zone related to mass transport deposits. A rapid seismic inversion of the Volume Shale (Vsh), using Genetic Inversion Technic, allowed the identification of new prospective areas. At the same time, was changed from time to depth the structural model of the sand C4. Two models for sand facies C4 were generated using truncated Gaussian simulation free software GSLIB and Petrel 2010. The end result was that sedimentary facies cubes obtained respect the facies interpreted in wells and follow the trends of the probability of occurrence for each seismic facie.

Degree in Physics, specialty in Geophysics, *Universidad Central de Venezuela, Caracas, Venezuela.* **GPA 3.45 out of 4.0**.
Graduated: December, 2009.

Thesis: Inference of Shear Wave Velocities using Fuzzy Neural Network (Advisor: Dr. Nuri Hurtado)

Description: The purpose of this study is to inference shear wave velocities. The inference was built using data of 2 wells. The workflow proposed in this thesis work allowed to generate inference equations of Shear Wave Velocities as a function of Volume Shale (Vsh), Water Saturation (Sw) and Porosity.

PUBLICATIONS

- **R. Coronado**, N. Hurtado and M. Aldana, (2015). Inference of wave velocities S using The Fuzzy Neural Network Technique. Bulletin of Geology, University of Santander, Colombia.Volume number 37, number 1 of 2015.
- **R. Coronado**, 2014, Sedimentary Facies Modeling in The Lama Field, Maracaibo Lake, using Truncated Gaussian Simulation. M.Sc.

Thesis. Universidad Simón Bolívar, Miranda, Venezuela.

PRESENTATIONS

- **R. Coronado,** N. Hurtado and M. Aldana. *Application of Neuro Fuzzy System to infer Shear Waves*, Poster Session, JIFI-EAI 2012, Caracas-Venezuela, November 2012.
- **R. Coronado,** N. Hurtado and M. Aldana. *Inference of Shear Wave Velocities using the Technique Neuro-Fuzzy*, Oral Presentation, 1st Meeting Geociences, Caracas-Venezuela. December 2011.

HONORS & HIGHLIGHTS

- **M.Sc. Thesis with Honors, 2014.** Universidad Simón Bolívar, Miranda, Venezuela
- **3rd place in the *Student Merit Award, mention Academic Perfomance, 2009*.** Universidad Central de Venezuela. Caracas, Venezuela.
- **Excelence Award, 2002.** Universidad Tecnológica del Centro. Aragua, Venezuela.

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RELEVANT COURSEWORK

Universidad Simón Bolívar

- Petrophysics, PhD. Jorge Mendoza
- Tectonics and Sedimentation
- Advanced Methods in Sismics Interpretation, PhD. Crelia Padrón
- Exploration Geology, MSc. Juan Arminio
- Analysis of Petroleum Systems, MSc. Juan Arminio
- Advanced Sedimentary Geology, MSc. Rafael Falcón
- Advanced Exploration Geology, MSc. Juan Arminio
- Basin Modeling
- Secuencial Stratigraphy, MSc. Rafael Falcón
- Advanced Structural Geology, PhD. Redescal Uzcategui

Training Courses:

- Petrel Geology. Schlumberger. Instuctor: Miroslava Vielma.
- Petrel Geophysics. Schlumberger. Instuctor: Miroslava Vielma.
- Petrel Fundamentals. Schlumberger. Instuctor: Miroslava Vielma.
- Integrated Reservoir Study, Geology Engineer Enrique Puche

Econoinvest, C.A.

- Introduction to Stock Markets
- Introduction to Insurance

REFERENCES

- PhD. Milagrosa Aldana. e-mail: maldana@usb.ve. Cell Phone: +58 416 638 0200.
- PhD. Costanzo Vincenzo. e-mail: vin61158@gmail.com. Cell Phone: +58 412 209 3172.
- PhD. Sabatino Costanzo. e-mail: tuzio@yahoo.com. Cell Phone: +01 647 982 5711.
- PhD. Miguel Bosch. e-mail: boschme@gmail.com. Cell Phone: +58 412 287 0410.