

Curriculum Vitae

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I. EDUCATION

YEAR	NAME OF SCHOOL	MAJOR
2017-Now	National Autonomous University of Mexico, Mexico.	Ph.D. Applied Geostatistics
2015-2016	National Autonomous University of Mexico, Mexico.	M.Sc. Applied Geostatistics
2009-2014	University of Pinar del Rio ´´Hermanos Saíz Montes de Oca´´, Cuba.	B.Sc. Geological Engineering

II. TEACHING

2009-2011 He was a teaching assistant of General Chemistry, Physics, Mathematics I, Mathematics II, Mathematics III and Algebra at the University of Pinar del Río.

2016-2020 He was a teaching assistant of Geostatistics at the National Autonomous University of Mexico.

III. INVESTIGATION

1. He was a member of the Cuban Society of Geology and his researchs is linked to the Center of Studies of Environment and Natural Resources and the Geology and the company EMINCAR about “Investigation Project for the search of the basic and values deposits in the west of Pinar del Rio”.
2. He was presented to 25 research events: Dept. of Mathematics (3), Dept. of Geology (2), Dept. of Language (2), Faculty of forestry and agronomy (3), Provincial, regional, national and international research (8), Research linked to practices (7) and obtained relevant prizes, outstanding prizes and mentions.

3. He was a member of International Society for Porous Media (INTERPORE).
4. He presented the work of “Mineral Potential Mapping Of Mineral Deposits Of Sedex Type” in the VII Convention of Earth Sciences (2017), Habana, Cuba.
5. He presented the work of “Multivariate Exploratory Analysis Of Dependencies Between Petrophysical Properties And Seismic Attributes At Well-Logs Scale” in The Annual Meeting Of The Mexican Interpore Chapter (2017).
6. In 10th Annual Meeting and Jubilee Conference of InterPore (2018), his work of “A Prediction of the Spatial Distribution of Petrophysical Properties with Bernstein Copula using Seismic Attributes as Secondary Variables” was selected for the presentation poster.
7. Published paper “Bernstein copula-based spatial cosimulation for petrophysical property prediction conditioned to elastic attributes”. Journal of Petroleum Science and Engineering 193 (2020) 107382.
8. He is a member of the Mexican Association of Exploration Geophysicists.
9. He presented the work of “Multivariate copula-based model for predicting petrophysical properties using seismic attributes as secondary variables” in the 2020 annual meeting of the Mexican geophysical union.
10. Paper in preparation "Copula-based model for petrophysical property and facies prediction conditioned by elastic attributes".

IV. DISTINCTION

1. He obtained 3rd place in the Student Mathematical Olympiad in Nha Trang province, Viet Nam and then he was awarded a scholarship in Cuba by his high qualification.
2. He obtained diplomas as a most integral outstanding student in the 5 years in teaching and research. He is also chosen as a integral foreigner at levels of brigade level, faculty level, university level and province level at the University of Pinar del Río “Hermanos Saíz Montes de Oca” in Cuba.
3. He finished his studies with an average of 6.27 points (in scale of 5 points), a condition that he obtained the category in the Gold Title option.
4. He completed more than 21 award exams, in which he obtained 17 in first place and 4 in second place.
5. He was elected as International Delegate to the XVIII World Festival of Youth and Students in Quito, Ecuador (2013).

6. He was a most outstanding student in the 5 years (2009-2014) in teaching, research and was a excellent foreigner in the University de Pinar del Río, Cuba. For this, the University gave him a scholarship to study in next level of Master or PhD.

V. COURSES

- Geostatistics, processing of geophysical data, theory of geophysical inversion, electromagnetic methods, structural geology, tectonic plates, field geology, and sedimentary environments and processes. (one semester courses)
- Fundamentals of rock physics for the interpretation of properties from 3D seismic. (short course)
- The Fourth Edition of Guanajuato Uncertainty Quantification: Workshop on Inference and Quantification of Uncertainty in Science and Engineering problems (GUQ2019). (short course)

VI. VISITING POSITIONS:

2019-Now: Visiting scholar with Dr. Dario Grana on the topic "conducting research on Bayesian and geostatistical inversion", Department of Geology and Geophysics, the University of Wyoming.

VII. CURRENT RESEARCH INTERESTS:

- Geostatistical (spatial stochastic) simulation based on copulas and global optimization methods (simulated annealing, differential evolution).
- Integration methodology of different quantitative and qualitative information based on advanced geostatistical methods for reservoir characterization.
- Inverse theory and optimization: Bayesian and geostatistical inversion.
- Machine learning with a deep understanding of geostatistical analysis.
- Petrophysical seismic inversion based on advanced geostatistical methods and quantification of uncertainty.
- Rock physics.

VIII. LANGUAGES

Vietnamese (native language), Spanish and English.

IX. COMPUTER SKILLS

Linux, Latex, Python, R, MATLAB, Octave, SGEMS, GS+, Gslib, ArcGIS, Qgis, Surfer, Grapher, Petrel, OpendTect.