

CURRICULUM VITAE



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EDUCATION

Universidad Nacional Autónoma de México (UNAM)
Earth Sciences **Ph. D. (Fracture Networks Mathematical Modelling)**
2013 – current.

Universidad Nacional Autónoma de México (UNAM)
Earth Sciences **Master Degree (Exploration – Seismic interpretation)**
2008-2011

Universidad Juárez Autónoma de Tabasco (UJAT)
Bachelor of Physics (Licenciatura en Física)
1999 -2005

LANGUAGES: Spanish (Native), English (TOEFL: 577), Portuguese (40%)

SOFTWARE:

Operating systems: Windows, Linux (Ubuntu, Red Hat, CentOS).

Apps: R (Cran Project), Python, MATLAB, PETREL, FracaFlow, C/C++,
GS+, Sgems, LaTeX, Microsoft Word, Excel, Power Point,
Adobe Photoshop CS3, CorelDRAW X7.

OTHER TOPICS: Discrete Fracture Network (DFN) characterization, modelling and simulation; Static Reservoir Characterization, Percolation Theory, Reflection seismology, Petrophysics, Geophysical Data Processing, Signal analysis (Fourier, Wavelets), Geophysical data Inversion Theory (Inverse Theory), Structural geology, Seismic interpretation, Sequence Stratigraphy, Plate Tectonics, Geostatistics, Numerical Methods, Finite Element, Interpolation, Splines, Fractal theory, Nonlinear correlation (Copulas), 3D geocellular modeling, geo-modelling, geo-cellular models, 3D reservoir modeling projects using Petrel.

(RELEVANT) PROFESSIONAL EXPERIENCE

University: National Autonomous University of Mexico (UNAM)

Geostatistics Adjunct Professor (Graduate level)

August/2014 – current

Tel.: +52 555622-4137

Instituto Mexicano del Petróleo (IMP, Mexican Oil Research Center)

Geostatistician (Fracture network characterization and modelling)

October/2011- October/2013

Tel.:+52 5591756482

High School José Ma. Luis Mora

Teacher of Physics and Mathematics

August /2010- December/2011

Tel. +52 5553387050

University: Instituto Tecnológico Superior De La Región Sierra (ITSS)

Teacher of Physics and Mathematics

August/2006 – August/2008

Tel.: +52 9323240650

Laboratorio Electrónico Morelia S.A. (LEMOSA)

Electrical specialist (services to PEMEX – Mexican Oil Company)

January /2006- August/2006

Tel.: +52 9933514445

University: Universidad Interamericana del Norte (UIN)

Teacher of Probability, Statistics and Electromagnetism

Sep/2005- Dec/2005

Tel.:+52 9933139398

SCIENTIFIC ACTIVITIES

- Poster presentation Mendoza-Torres, Francisco, and Martin Alberto Díaz-Viera. 2015. "Bernstein Copula Approach to Model Direction-Length Dependency for 2D Discrete Fracture Network Simulation." In *AGU Fall Meeting*. San Francisco, California, USA. <https://agu.confex.com/agu/fm15/meetingapp.cgi/Paper/58431>.
- Oral presentation in the "1st Interpore Mexican Annual Meeting". A Orientation-Length dependence model using Bernstein copulas for 2D Discrete Fracture Network Simulation. Francisco Mendoza-Torres, Martín A. Díaz-Viera, 22/04/2015
- Presentation of "Wavelets analysis as a natural extension of Fourier analysis. Introduction and applications". In the 21st Science and Technology National Week, at the Superior Technological Institute of the Region of the Sierra. Oct/29/2014
- Díaz Viera M. A., Casar González R., Checa Rojas P., Hernández Maldonado V., Méndez Venegas J., Mendoza Torres F., Ramírez Ortega C., Velasquillo Martínez L. G.: "MODELO GEOLÓGICO-PETROFÍSICO DE LA MARCOPERA 331, CAMPO COYOTES, CUENCA DE CHICONTEPEC", Registro número: 03-2013-110512112200-01, Instituto Nacional del Derecho de Autor, 11 de noviembre de 2013. Geological-petrophysical model of the 331 macro-rig, Coyotes field, Chicontepec basin.
- Lecture: "Application of cluster analysis to discriminate between two families of fractures in 3D, by Francisco Mendoza Torres" inside the XXVIII Technical Conference of the Association of Petroleum Engineers of Mexico, October /2013.
- Díaz Viera M. A., Casar González R., Hernández Maldonado V., Méndez Venegas J., Mendoza Torres F. y Checa Rojas P.: "METODOLOGÍA PARA LA MODELACIÓN GEOLÓGICA-PETROFÍSICA USANDO MÉTODOS GEOESTADÍSTICOS FRACTALES", Registro número: 03-2013-091112215300-01, Instituto Nacional del Derecho de Autor, 18 de septiembre de 2013. Methodology for geological-petrophysical modelling using fractal-geostatistical methods.
- Casar González R., Díaz Viera M. A., Hernández Maldonado V., Méndez Venegas J., Mendoza Torres F. y Checa Rojas P.: "METODOLOGÍA PARA OBTENER MODELOS GEOLÓGICOS-PETROFÍSICOS BASADOS EN LA APLICACIÓN DE MÉTODOS GEOESTADÍSTICOS", Registro número: 03-2012-071712190800-01, Instituto Nacional del Derecho de Autor, 26 de julio de 2012. Geostatistics-based methodology to obtain geological-petrophysical models.
- Presentation: of several papers and works in the seminars in the Spatial and Stochastic Modelling Research Group.
- Poster: A stochastic model of discrete fracture network to simulate fluid flow in a fractured porous medium. In the National School of Optimization and Numerical Analysis (ENOAN). 2012.