EDGAR GIOVANI MARTÍNEZ-MENDOZA

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Research Interests: Pore-scale modeling, pore network models, flow and transport phenomena, image processing, percolation theory in displacement processes, reservoir modeling, reserves, risk analysis & management, machine learning, and data mining.

EDUCATION

Universidad Nacional Autónoma de México *2016 - Current*
M.Sc. in Modeling
Advisor: Dr. Martín A. Díaz-Viera
GPA: 9.88/10
Expected to graduate in November 2018

Universidad Nacional Autónoma de México *2011 - 2016*
B.Sc. in Petroleum Engineering
Graduated with Honors
GPA: 9.19/10

EXPERIENCE

Visiting researcher March 2018 - May 2018
University of Waterloo *Ontario, Canada*

· This stay addressed on multiphase transport in porous media and the open source pore-network modeling project, OpenPNM. Supervised by Dr. Jeff Gostick

Thesis Student 2015 - 2016
Mexican Petroleum Institute *Mexico City*

· Developing my undergraduate thesis: "*Pore network models for obtaining effective flow and transport properties in petroleum reservoirs*". Directed by Dr. Martín A. Díaz-Viera

Field Practice August 2014
Petróleos Mexicanos (PEMEX) *Unidad de Perforación Comalcalco*

· Well Completion and Maintenance

Field Practice December 2013
Petróleos Mexicanos (PEMEX) *Unidad de Perforación Reforma-Ciudad PEMEX*

· Drilling Engineering

Field Practice July 2013
Petróleos Mexicanos (PEMEX) *Unidad de Perforación Litoral*

· Well Drilling Elements

COMPUTER SKILLS

Languages	Python, Matlab, C++, Visual Basic
OS	GNU/Linux, Windows
Software	Inkscape, Gimp, Paraview, ImageJ, LaTeX

LANGUAGES

Spanish Mother tongue
English Upper Intermediate

ORAL PRESENTATIONS

"Low Salinity Waterflooding Simulation via Pore Network Models: Salinity Impact on Capillary Pressure and Relative Permeability Curves", AIPM Technical Conferences, October 2018.

"Fluid Flow Property Estimation Using a Pore Network Modeling Approach", The InterPore 10^{th} Annual Meeting and Jubilee, New Orleans, LA. May 2018.

"Comparative Study of Pore Network Modeling Software for the Characterization of Porous Media: OpenPNM and PoreFlow", Fourth Annual Meeting of Mexican Chapter of InterPore, November 2017.

"Methodology for Porous Media Characterization at Pore Scale through Pore Network Modeling", Third Annual Meeting of Mexican Chapter of InterPore, October 2016.

"Methodology for Obtaining Effective Flow Properties Employing a Pore Network Model", AIPM Technical Conferences, October 2015.

GIVEN WORKSHOPS

"Visual Basic 6.0 for petroleum engineering students", Faculty of Engineering, Universidad Nacional Autónoma de México, March 2014.

COURSES

C++ Intermediate *January 2016*
Computational Technology Program (PROTECO)

MOOC Oil and Gas: From Exploration to Distribution *June 2015*
Institute Français du Pétrol

Geological Modeling with PETROMOD *July 2014*
Schlumberger

Advanced Drill Bit *April 2014*
Baker Huges

Introduction to PETREL *May 2013*
Schlumberger

EXTRACURRICULAR

- Member of the Student Society of Petroleum Engineers, 2013-2014
- Support in the Technical Program of CMP 2014
- Fundación TELMEX Scholar

SOCIETIES

- International Society for Porous Media
- Society of Petroleum Engineers
- American Association of Petroleum Geologists
- Earth-Science Modeling Group