

# EDGAR GIOVANI MARTÍNEZ-MENDOZA

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🌐 Web Page: <https://edgarmartinez.github.io/>

**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

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### 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

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### 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

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<b>Languages</b>	Python, Matlab, C++, Visual Basic
<b>OS</b>	GNU/Linux, Windows
<b>Software</b>	Inkscape, Gimp, Paraview, ImageJ, L <sup>A</sup> T <sub>E</sub> X

## LANGUAGES

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<b>Spanish</b>	Mother tongue
<b>English</b>	Upper Intermediate

## ORAL PRESENTATIONS

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**“Fluid Flow Property Estimation Using a Pore Network Modeling Approach”**, The InterPore 10<sup>th</sup> 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

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

## COURSES

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<b>C++ Intermediate</b> Computational Technology Program (PROTECO)	<i>January 2016</i>
<b>MOOC Oil and Gas: From Exploration to Distribution</b> Institute Français du Pétrol	<i>June 2015</i>
<b>Geological Modeling with PETROMOD</b> Schlumberger	<i>July 2014</i>
<b>Advanced Drill Bit</b> Baker Hughes	<i>April 2014</i>
<b>Introduction to PETREL</b> Schlumberger	<i>May 2013</i>

## EXTRACURRICULAR

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

## SOCIETIES

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