

# Arturo Martinez Jimenez

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## SUMMARY OF QUALIFICATIONS

- Highly educated student with the ability to perform research in topics related to shale gas adsorption and additive polymer conformations
- Strong understanding of the Monte Carlo molecular simulations used to estimate the physical properties of materials produced and required in the oil industry
- Specializing in a technique that determines the shale gas concentration in porous media
- Advanced ability in the analysis and presentation of results as a consequence of the polymer research performed as a master student
- Good communication skills acquired teaching lab sessions for students of physics at undergraduate level
- Ability to work in teams gained during my participation as a member of the organizing committee for a Physics Symposium, where organization and synchronization of all members was my responsibility

## **EDUCATION**

### **KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, THUWAL, KSA**

*M.Sc. in Earth Science & Engineering (Fluid Track), Expected graduation: May 2016, GPA 3.48/4.0*

**Thesis Topic:** Grand Canonical Monte Carlo simulation studies of shale gas adsorption and additive polymer conformations

**Professor Name:** Shuyu Sun

### **MONTERREY INSTITUTE OF TECHNOLOGY AND HIGHER EDUCATION, MEXICO**

*B.s in Engineering Physics, May 2014, GPA 3.56/4.0*

## PROFESIONAL EXPERIENCE

### **KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, THUWAL, KSA**

EARTH SCIENCE & ENGINEERING DEPARTMENT

**Researcher**

*Since June 2015*

- Involved in a research project to determine shale gas and CO<sup>2</sup> adsorption in porous media, modifying source code and performing simulations to visualize the concentration of both
- Involved in a research project to study the behavior of polymers at different pH solutions, performing simulations to visualize the different shapes polymers can acquire

### **MONTERREY INSTITUTE OF TECHNOLOGY AND HIGHER EDUCATION, MEXICO**

DEPARTMENT OF PHYSICS

**Laboratory Instructor**

*Aug. 2012-May 2014*

- Helped students that were taking the Electricity & Magnetism course to improve their grades by teaching lab sessions for groups of 16 students

## ADMINISTRATIVE EXPERIENCE

### **MONTERREY INSTITUTE OF TECHNOLOGY AND HIGHER EDUCATION, MEXICO**

STUDENT SOCIETY OF ENGINEERING PHYSICS

**General Coordinator**

*May 2011-July 2012*

- Helped the student society to acquire new equipment for the students by organizing fundraisers

## **TECHNICAL AND COMPUTER SKILLS**

### COMPUTER SKILLS

- **Software**  
MATLAB, Pymol, LaTeX
- **Computer programming**  
Fortran, R
- **Operating systems**  
Microsoft Windows family, Apple OS

## **AWARDS AND RECOGNITIONS**

- 2013: Represented Monterrey Institute of Technology and Higher Education in the XXII International Materials Research Congress
- 2014: Awarded an academic scholarship from King Abdullah University of Science and Technology

## **LANGUAGES**

- Spanish: Native language
- English: Advance