

# Deraldo de Carvalho Jacobina Andrade

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## EDUCATION

### **Federal University of Espirito Santo, São Mateus, Espirito Santo – BRAZIL**

*Bachelor Petroleum Engineering*

March 2012–August 2014

### **Gonzaga University, Spokane, WA – UNITED STATES**

*University Intensive English Language Program.*

September 2014–December 2014

### **University of Wyoming, Laramie, WY – UNITED STATES**

*Bachelor Petroleum Engineering*

January 2015–December 2016

### **University of Wyoming, Laramie, WY – UNITED STATES**

*PhD Candidate*

January 2017–still in progress

## EXPERIENCE

### **Federal University of Espirito Santo, São Mateus, Espirito Santo - BRAZIL**

*Tutor*

January 2014–June 2014

- Help and assist students with the class Calculus 2
- Grade Homework

### **University of Wyoming, Laramie, WY – UNITED STATES**

*Undergraduate Researcher*

May 2015–December 2016

- Help and assist a PhD student in her project of Impact of Mineralogy and Wettability on Porescale Displacement Mechanisms of Nonaqueous-Phase Liquids in Heterogeneous Rocks

### **University of Wyoming, Laramie, WY – UNITED STATES**

*PhD candidate research*

January 2017–still in progress

- Project on coal characterization and application. The project involves coal fractionalization by liquefaction, soxhlet extraction, and silica gel column. The coal and fraction are applied to carbon material synthesis, as graphene sheet, carbon nanotubes, carbon foams, graphene oxide, and modified graphene oxide (amphiphilic Janus graphene oxide nanosheets). The experimental work is also investigated by reactive molecular simulation using ReaxFF potentials.

## VOLUNTEER WORK

### **COOEDUCAR, Carlos Chagas, Minas Gerais - BRAZIL**

*Tutor*

January 2010–December 2011

- Help and assist students with all the class of high school

## SKILLS

Microsoft Word, Power Point, Excel,  
Fluent in Portuguese spoken/written and reading,  
Fluent in English spoken/written and reading,  
Intermediate proficiency in spoken/written and reading Spanish  
Three years of laboratory experience  
Large experience on measuring contact angles of fluids/rocks

Basic experience on Core Flooding and CT scanner  
FT-IR, XPS, XRD, Raman Spectrometer  
Liquefaction, Soxhlet extraction, Silica gel column  
Chemical Vapor Deposition  
**Petrel** basics  
**Crystal Maker**  
**Gromacs**  
**Lammps**

## **PROFESSIONAL ORGANIZATIONS & ACTIVITIES**

The Society of Petroleum Engineers

April 2014–still participate