

Sebastian Ramiro-Ramirez

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Austin, TX 78751

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EDUCATION

The University of Texas at Austin Austin, Texas May 2020
Ph.D. Student in Geological Sciences, minor Petroleum Engineering GPA: 3.8 / 4.0
Thesis: *Study of water cut in the Wolfcamp Formation in the Delaware Basin, Permian Basin, West Texas*
Advisor: Peter B. Flemings

Colorado School of Mines Golden, Colorado May 2016
M.S. Geology, minor Petroleum Engineering GPA: 3.9 / 4.0
Thesis: *Petrographic and petrophysical characterization of the Eagle Ford Shale in Gonzales and La Salle counties, Gulf Coast Region, Texas*
Advisor: Steven A. Sonnenberg and Azra N. Tutuncu

Universidad Complutense de Madrid Madrid, Spain September 2012
B.S., M.S. Geological Engineering
B.S., M.S. Geological Sciences, minor Petroleum Engineering
Exchange student at Schulich School of Engineering (Canada) and ENS Lyon (France)

RELEVANT COURSEWORK

Advanced Petrophysics, Mathematical Modeling, Reservoir Engineering, Well Logging and Formation Evaluation, Waterflooding and Enhanced Oil Recovery, Drilling and Well Completions, Reservoir Geomechanics, Structural Methods for Seismic Interpretation

SKILLS

- Petrophysics, permeability, porosimetry, NMR, SEM, pyrolysis, petrography
- Interactive Petrophysics, Petrel, Petra, MATLAB, COMSOL, Techlog, Geolog, KingdomSuite
- Spanish, French, English

WORK EXPERIENCE

Petrophysics Intern

Diamondback Energy Midland, Texas May 2018 – Present

- Building petrophysical model, assessing OIP and identifying potential completion intervals in Wolfcamp and Bone Spring formations in the Delaware Basin (Permian Basin)

Research Assistant, Shell-UT Unconventional Research (SUTUR)

The University of Texas at Austin Austin, Texas July 2016 – Present

- Building permeability cells, preparing samples for experimental analyses, determining porosity and permeability experimentally in the Wolfcamp and Bone Spring formations, developing multiphase flow model in MATLAB

Geoscience Intern

Texas Oil and Gas Institute Houston, Texas May 2017 – August 2017

- Built stratigraphic model (Petra), 3D surface and petrophysical models (Petrel), and assessed OIP in Devonian through Atoka formations in University Lands Area 3, Central Basin Platform (Permian Basin)

Research Assistant, Unconventional Natural Gas and Oil Institute

Colorado School of Mines

Golden, Colorado

Aug 2014 – May 2016

- Prepared and analyzed samples using QEMSCAN, transmitted and reflected light microscopy, SEM, porosimetry techniques (WIP, nitrogen adsorption)

Teacher Assistant

Colorado School of Mines

Golden-Rangely, Colorado

May 2015 – June 2016

- Taught and graded Gas Measurement and Formation Evaluation, Petroleum Geostatistics and Summer Field Session II (Massadona) to junior and senior Petroleum Engineering students

Information Knowledge Service Intern in Unconventional Gas

Energy Institute

London, United Kingdom

June 2013 – June 2014

- Researched, wrote and published reports detailing technology, domestic and international policy and regulatory frameworks, and economic impacts for onshore shale gas development in the UK

Research Assistant

Ecole Normale Supérieure de Lyon

Lyon, France

May 2010 – July 2010

- Prepared and analyzed samples using Gas Chromatography and Mass Spectrometer to determine degradation potential of aromatic polycyclic hydrocarbons by hyperhalophilic Archaea

PUBLICATIONS

Bhandari, A. R., P. B., Flemings, **S. Ramiro-Ramirez**, Hofmann, and R., Polito, P. J., 2018. Gas and Liquid Permeability Measurements in Wolfcamp Samples. Fuel journal. In review.

Romero-Sarmiento, M-F., **S. Ramiro-Ramirez**, G. Berthe, G. Fleury, and R. Littke, 2017. Geochemical and petrophysical source rock characterization of the Vaca Muerta Formation, Argentina: Implications for unconventional petroleum resource systems. International Journal of Coal Geology, v. 184, pp. 27-41.

Ramiro-Ramirez, S., 2014. A guide to shale gas. Energy Institute: Energy Essentials, 20p.

CONFERENCE ABSTRACTS AND PROCEEDINGS

Ramiro-Ramirez, S., A. R., Bhandari, P. B., Flemings, and P. J., Polito, 2018. Porosity and Permeability in Wolfcamp lithofacies at Delaware Basin, West Texas. AGU 2018 poster.

Ramiro-Ramirez, S., A. R., Bhandari, P. B., Flemings, and P. J., Polito, 2018. Effect of Test Fluid in Steady-state Liquid Permeability Measurements of Siltstone Lithofacies in the Bone Spring Formation, Delaware Basin. JSG Annual Poster Symposium.

Bhandari, A. R., P. B., Flemings, **S. Ramiro-Ramirez**, and P. J., Polito, 2017. Gas and liquid permeability measurements in Wolfcamp sample. AGU Meeting.

Romero-Sarmiento, M-F., **S. Ramiro-Ramirez**, G. Berthe, M. Fleury, and R. Littke, 2017. Source rocks characterization from Vaca Muerta formation: implications for unconventional petroleum resource estimations. IMOG Conference poster.

Ramiro-Ramirez, S., and A., Padin, 2017. Nano-scale pore characterization of the Eagle Ford Shale. AAPG ACE Conference poster.

Ramiro-Ramirez, S., and M-F., Romero-Sarmiento, 2017. Rock-Eval Basic/Bulk-Rock vs. Shale Play methods for characterization of unconventional shale resource systems: application to the Eagle Ford Shale. AAPG ACE Conference poster.

Ramiro-Ramirez, S., A. R., Bhandari, P. B., Flemings, and P. J., Polito, 2016. Steady-State liquid permeability tests in the Wolfcamp formation, Permian Basin. JSG Annual Poster Symposium.

Padin, A., S., **Ramiro-Ramirez, A.**, Tutuncu, and S., Sonnenberg, 2016. Membrane morphology of organic-rich Eagle Ford Shale - Implications for surface-fluid interaction. AAPG ICE Conference Poster.