

# LUCIA TORRADO

## Ph.D. Candidate in Geology, Research Assistant at the University of Houston

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### OBJECTIVE

Geologist with emphasis in 2D & 3D seismic interpretation and well log correlations, seismic and sequence stratigraphy, basin analysis, and applied geophysics seeking for an internship position in the oil and gas industry.

### EDUCATION

**Ph.D. Candidate in Geology**  
January 2015 – Fall 2018 (Expected)

**University of Houston**, Houston – TX, USA

Current GPA: **3.57/4.00**

**Thesis:** "Tectono-stratigraphic controls on petroleum system elements in intra-plate and passive margin settings: Comparative studies of the western Nicaraguan Rise and Amazon Cone, Brazil"

Advisors: Dr. Paul Mann, Dr. Juan Carlos Silva, Dr. Robert Stewart and Dr. Lorena Moscardelli.

**Master of Science in Geology**  
December 2012

**University of Houston**, Houston - TX, USA

GPA: **3.57/4.00**

**Thesis:** "Non-marine, Late Eocene – Oligocene sequence stratigraphy and changing fluvial style in the Carbonera Formation, Eastern Casanare, Llanos Basin, Colombia"

Advisors: Dr. Janok Bhattacharya and Dr. Paul Mann. *Grade: 4.00/4.00*

**Bachelor of Science in Geology**  
September 2008

**National University of Colombia**, Bogotá, Colombia

GPA: **4.00/5.00**

**Thesis:** Petrology and petrography of the Guadalupe Formation, in the town of Mongua, Boyaca, Colombia - Advisor: Dr. Gustavo Sarmiento. *Grade: 5.00/5.00*

### TECHNICAL SKILLS

- 2D and 3D seismic interpretation
- Sequence stratigraphy
- Petroleum geology
- Seismic-well tie
- Seismic stratigraphy
- Basin analysis
- Well log correlation
- Applied geophysics
- Carbonate and clastic petrography/petrology
- Reservoir characterization
- (attributes)

### SOFTWARE SKILLS

- Kingdom (SMT)
- Geographix
- PetroMod
- Adobe Illustrator
- Geoframe
- Petrel
- NDI Geosigns
- BasinMod
- Midland Valley MOVE

### INTERNSHIPS

**Geology & geophysics intern**  
June 2013 – August 2013

**Talisman Energy**

The Woodlands, TX - USA

Regional evaluation, reservoir characterization and properties mapping (porosity, hydrocarbon in place and production) of the Austin Chalk Formation in Wilson County, Texas: Identification and mapping of serpentine plugs for new drilling sites based on 2D seismic interpretation (~30 lines) and well correlations (~400 wells).

**Geology intern**  
June 2012 – September 2012

**Shell**

Houston, TX - USA

2D seismic interpreter (> 70 lines), well log correlation (>32 wells), sedimentary facies model, sequence stratigraphy and reservoir characterization for proposal of new drilling sites associated to stratigraphic traps in Llanos Basin of Colombia.

**Geology intern**  
March 2008 - May 2008

**Kappa Resources Colombia Ltda**

Bogotá, Colombia

Created, edited and/or completed technical activity reports for the Colombian Ministry of Mines.

### EXPERIENCE

**Research assistant and staff**  
August 2010 – Present

**University of Houston - Caribbean Basins, Tectonics and Hydrocarbons Consortium** Houston, TX - USA  
I have worked as 2D and 3D seismic interpreter, seismic/sequence stratigrapher in projects conducted in the Nicaraguan Rise, Colombia Basin, offshore northern Brazil and Llanos basin, Colombia.

- Projects that I have worked on, include:
  - "Seismic characterization of Early Cretaceous fluvio-deltaic sandstones, Middle to Late Cretaceous turbidites and Late Cretaceous channelized features in the Foz do Amazonas Basin, Northern Brazil".
  - "Late Cretaceous to Recent paleogeographic reconstruction and sequence stratigraphy of the Western Nicaraguan Rise".
  - "Application of fluvial geomorphology, non-marine sequence stratigraphy seismic attributes and spectral decomposition for reservoir characterization of a complex fluvial system: Case study of the

Carbonera Formation, Llanos foreland basin, Colombia”.

**Junior Geologist**  
April 2010 – August  
2010

**Hocol – Ecopetrol**

Bogotá - Colombia

Data manager for an area of ~1,500 km<sup>2</sup>, 2D and 3D seismic data loading, 2D and 3D seismic ties correction in active oil blocks in the Upper Magdalena Valley Basin of Colombia.

**Junior Geologist/  
Interpreter**  
April 2009 – April  
2010

**PGS AS**

Bogotá - Colombia

2D seismic interpreter of an area of ~12,000 km<sup>2</sup>, depth, structure and thickness mapping based on >1200 pseudowells compiled from RMS velocities, and basin analysis of offshore Los Cayos Basin and offshore Pacific Basin of Colombia.

**Data Management  
Geologist**  
December 2008 -  
February 2009

**Colombian Geologic Survey**

Bogotá - Colombia

Created a new proposal for mining titles names, classification and description for the optimization of freight routes. Supervisor of a survey conducted on mineral demands for mining companies and of the call center staff.

**Teacher assistant**  
January 2006 – June  
2007

**National University of Colombia**

Bogotá - Colombia

Lectured students in laboratory sessions working with hand-specimen and thin sections, including mineral, matrix and cement identification, point counting and rock classification (sedimentary, igneous and metamorphic rocks).

**AWARDS**

April 2017  
April 2016  
May 2015  
May 2015  
August 2014  
May 2013  
May 2012  
August 2008  
February 2008

- **1st Place** - Student poster competition - AAPG ACE, Houston, TX - USA
- **“Top 15”** Student poster competition - AAPG ACE, Calgary - Canada
- **Marathon scholarship** for outstanding graduate work in Geology
- **Honorable Mention (3<sup>rd</sup> place)** – Student Research Day, University of Houston
- **Award of Excellence “Top 10” Poster Presentation**, AAPG ICE, Cartagena - Colombia
- **3<sup>rd</sup> Place** - Student poster competition - AAPG ACE, Pittsburgh, PA - USA
- **“Top 15”** Student poster competition - AAPG ACE, Long Beach, CA - USA
- **Winner** of the Contest for **“Best Undergraduate Thesis of the National University of Colombia”**
- Awarded participation and travel grants for the **First SEG Latin-American Challenge Bowl** at the “III Colombia Oil & Gas Investment Conference” sponsored by SEG and Shell

**PUBLICATIONS**

2017  
  
2015  
  
2014

- **Torrado, L.,** Carvajal-Arenas, L.C., Sanchez, J., Silva-Tamayo, J.C. and Mann, P. Late Cretaceous-Cenozoic sequence stratigraphic and paleogeographic controls on petroleum system elements of the western Nicaraguan Rise, Caribbean Sea - **AAPG Special Issue on the Nicaraguan Rise** (under review)
- Carvajal-Arenas, L.C., **Torrado, L.,** and Mann, P. Early & Late Eocene / Oligo-Miocene (!) petroleum system in the Nicaraguan Rise: Insight from basin and 3D petroleum system modeling - **AAPG Memoir 108, Chapter 22, p. 615-645**
- **Torrado, L.,** Mann, P. and Bhattacharya, J., 2014, Application of seismic attributes and spectral decomposition for reservoir characterization of a complex fluvial system: Case study of the Carbonera Formation, Llanos foreland basin, Colombia - **Geophysics, Vol. 79, No. 5, p. 1-10**

**PRESENTATIONS**

2010 – Present

- Presentation of my graduate research at several annual convention and exhibition including AAPG, SEG, Sheriff Lecture, and Dobrin Lecture in various locations in the USA. I have also presented my research to several oil companies including Anadarko, Shell, Exxon, Conoco, Hess, Statoil, Nexen, Corelab and Casa Exploration in Houston, TX – USA

**TRAINING**

April 2015  
February 2015  
August 2014

- Carbonate Plays around the World, AAPG – GTW New Orleans, LA – USA
- Six Annual Deepwater and Shelf Reservoir, AAPG – GTW Houston, Texas – USA
- Introduction to balanced cross sections and kinematic restorations in contractional settings using MOVE, Ecopetrol Houston, TX - USA
- Seismic geomorphology and seismic stratigraphy: extracting geologic insights from 3D seismic data, SEPM course by Dr. Henry Posamentier at AAPG-ACE Pittsburgh, PA - USA
- Seismic Inversion Fundamentals Course, Fugro Jason – In-house training Bogota - Colombia

May 2013

August 2009

**VOLUNTEER**

2016 - Present  
2015 – Present  
2012 – Present

- SEG Wiki Spanish translation project of the Sheriff’s Encyclopedic Dictionary
- Desk registration for the Society of Independent Professional Earth Scientist’s monthly luncheon
- Exhibitor for the Department of Earth and Atmospheric Sciences - University of Houston at different conventions and exhibitions including AAPG, SEG and GCAGS.