

# Raffaele Bitonte

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📅: December 23<sup>rd</sup>, 1981

Nationality: Italian



## Academic Experience

September 2017 – Present      **University of Insubria (Italy)**  
Department of Science and High Technology  
Ph.D., Students

Research topics: Fold-fractures relationship, structural geology, fractures linkage, fracturing, fluid flow, reservoirs characterisation, carbonates, seismogenic

## Professional Experiences

Jan 2011 – March 2017      **G.E.Plan Consulting, Ferrara, ITALY**  
Geoscientist/Structural Geologist

During these year I worked on several technical projects over different aspects of the petroleum industry:

- Prospects evaluation: exploration for new plays and opportunities in mature and undeveloped basins/thrust belt, (potential evaluation and selection of exploration blocks, basin reviews and play type definitions)
- appraisal and development of reservoir (clastics and carbonates)
- reservoir characterization (upscaling), seismic interpretation (2D and 3D) and maps creation, well logs interpretation and correlation, drill cuttings and core description, remotes sensing analysis (for structural and geological setting and regional framework), fracturing analysis (fieldwork and image logs analysis), 3D photogrammetry interpretation (Karst geometries and F&F network), reports.
- conceptual and static geological modelling (field modelling, F&F network and DFN modelling).
- Geological mapping
- QC and database management and QC during seismic survey acquisition
- organizing and leading training courses for oil companies on complex carbonate reservoir characterization.

I carried out projects in the following countries: Italy (Adriatic Sea, Southern Apennines, Sardinia and Sicily Channel), Kazakhstan, Western Mediterranean area (Valencia Trough and Provençal Basin), France-Spain (Bay of Biscay), Kurdistan region, UAE, Albania, and Mauritania.

Feb 2010 – Jan 2011      **SoilData Srl (Feb. 2010-Jan. 2011)**  
Geologist

- Management, analysis and processing, geophysical and geotechnical data parameterization, building geological models of the subsurface, and development of relative interpretative cross sections for civil engineering, major infrastructures, geological characterization of contaminated sites (remediations)
- Interpretation of the design resistance of foundation soils and settlements in operating conditions
- Hydraulic forestry accommodations: cooperation with environmental engineers for the design and development of river banks and river bed works to mitigate the geological and hydrogeological risks
- Geothermal and hydrogeological characterization for geothermic system
- Geotechnical and seismic characterization for land government planning (PGT)
- Design and development of related thematic maps (AutoCAD, ArcGIS, Q GIS)
- Fieldwork: water and soils sampling;

## Education

2009 **M.Sc. in Geological Sciences and Technologies** at the University of Milano-Bicocca, Italy ([www.unimib.it](http://www.unimib.it))

Thesis: "*Structural analysis and tectonics development of the Giovo Line (South-Tirol – Italy)*".

2007 **B.Sc. in Geological Sciences and Technologies** at the University of Milano-Bicocca, Italy ([www.unimib.it](http://www.unimib.it))

Thesis: "*Geological-Structural modelling of the quartz-gold mineralization of Fenilliaz (Aosta Valley, Italy)*".

## IT Skills

Expert in utilizing a variety of software for surface and subsurface data analysis and interpretation:

- |                                |   |
|--------------------------------|---|
| ✓ Petrel 2015 (Geophysics)     | ✓ ArcGIS 10.1, 9.3,                       |
| ✓ Petrel 2013 (Geophysics)     | ✓ QGIS                                    |
| ✓ SMT Kingdom Suite 2015, 8.8, | ✓ MS Office (Word, Excel, Power point..), |
| ✓ OpenDtec,                    | ✓ AutoCAD,                                |
| ✓ WellCAD,                     | ✓ Coreldraw                               |
| ✓ Neuralog                     |   |

## Languages

English: Fluent

French: Good

Italian: Native

## Publications

### Papers:

**Korneva, I., Tondi, E., Agosta, F., Rustichelli, A., Spina, V., Bitonte, R., Di Cuia, R.** - Structural properties of fractured and faulted Cretaceous platform carbonates, Murge Plateau (southern Italy) – *Marine and Petroleum Geology* 11/2014; 57:312–326.

### Abstracts:

**A. Riva, R. Bitonte, R. Di Cuia, S. Hegndal-Andersen** - Connectivity and Drainage in a Karst Reservoir: Insights From an Outcrop Analogue – AAPG/SEG - International Conference & Exhibition 15th-18th October 2017 – London, UK

**R. Di Cuia, P. Pace, M. Marian, R. Bitonte, A. Riva** - Revitalizing HC Prospectivity in the Bay of Biscay – AAPG/SEG - International Conference & Exhibition 15th-18th October 2017 – London, UK

**A. Riva, R. Di Cuia, R. Bitonte, P. Ferretto, A. MacDonald, S. Hegndal-Andersen**: Insight on the Complexity of a Paleokarst Reservoir: Examples from a World-Class Outcrop Analogue (Southern Italy). AAPG Annual Convention & Exhibition (ACE) 2017 – Houston (USA)

**A. Riva, R. Di Cuia, R. Bitonte, P. Ferretto** - Karst reservoirs in the Mediterranean: examples and outcrop analogues. AAPG Europe Region Conference – Hydrocarbons in the Mediterranean: Revisiting mature plays and understanding new and emerging ideas – 18-19 January 2017 - Lanarca, Cyprus

**Di Cuia R, Bitonte R. & Pace P.** - Cross-Strike Structures and Hydrocarbon Migration and Accumulation: Examples On The Relationship Between Strike Slip Faults and Lateral Ramps in Three Alpine Thrust Belts. AAPG Annual Convention and Exhibition - 19<sup>th</sup>-22<sup>nd</sup> June 2016 – Calgary, AB, Canada

**M. Marian, R. Bitonte, A. Ricciato, E. Battara, A. Riva, R. Di Cuia** - Use Of Vintage Seismic And Well Data To Characterise The Exploration Potentials Of The Valencia Basin - Event: 78th EAGE Conference & Exhibition Vienna, Austria – 30<sup>th</sup>-2<sup>nd</sup> June 2016

**R. Di Cuia, P. Pace, R. Bitonte & A. Riva** - Hydrocarbon occurrences and deformation styles over the Zagros Thrust Belt: a

focus on the Kurdistan (NE Iraq) and Lorestan (NW Iran) petroleum provinces – 78° EAGE Conference and Exhibition – Vienna, Austria – 30<sup>th</sup>-2<sup>nd</sup> June 2016

**R. Di Cuia, R. Bitonte, P. Pace, A. Riva, 2016** - Deformation style and hydrocarbon occurrence: impact of the folding deformation on play distribution in Zagros Fold Thrust Belt High folded Zone - AAPG Europe Region Conference – "Petroleum Systems of Alpine-Mediterranean Fold Belts and Basins" – 19<sup>th</sup>-20<sup>th</sup> May 2016 – Bucharest, Romania

**A. Ricciato, R. Bitonte, E. Battara, R. Di Cuia, C. Davies, A. Quallington, S. Mazur, G. Firpo, G. Williams, 2016** – Crustal architecture and impact on HC potentials in the Mediterranean Sea Basins - AAPG Europe Region Conference – "Petroleum Systems of Alpine-Mediterranean Fold Belts and Basins" – 19<sup>th</sup>-20<sup>th</sup> May 2016 – Bucharest, Romania

**A. Ricciato, M. Marian, A. Riva, R. Di Cuia, R. Bitonte, 2016** - Valencia Trough (Offshore Spain): petroleum system & play types - AAPG Europe Region Conference – "Petroleum Systems of Alpine-Mediterranean Fold Belts and Basins" – 19<sup>th</sup>-20<sup>th</sup> May 2016 – Bucharest, Romania

**A. Riva, R. Bitonte, P. Ferretto, R. Di Cuia, S.H.-Andersen, 2016** – Polygenic karst systems and impact on reservoir connectivity and drainage – AAPG Europe Regional Conference, Exploring and Exploiting Carbonate reservoirs, 26<sup>th</sup> – 27<sup>th</sup> April 2016 – Bari, Italy

**R. Di Cuia, R. Bitonte, S. Borello, A. Riva, R. Konert, E. McAllister, S. Farner** - Characterisation of the background fracture network in a basinal carbonate reservoir of Southern Albania – 7<sup>th</sup>-10<sup>th</sup> March 2016 Geo2016 - Bahrain

**Bitonte R., Pace P. & Di Cuia R., 2015** - The impact of cross-strike structures on hydrocarbon migration and accumulation: practical examples from Alpine fold-and-thrust belts. Poster presented at GIGS 2015 in Catania.

**R. Di Cuia, A. Criscenti, R. Bitonte, S. Borello, G. Gattolin, A. Riva, S. Farner, R. Konert, E. McAllister, 2014** - Comparison between the structural and deformation style of three structures in the Berati zone (Southern Albania) - AAPG European Regional Conference, Mesozoic and Cenozoic carbonates of the Neo-Tethys: old and new concept for petroleum exploration, 25-26 March 2014 – Naples, Italy

**A. Riva, R. Di Cuia, G. Gattolin, R. Bitonte, A. Criscenti, S. Borello, M. Marian, S. Farner, R. Konert, E. McAllister, 2014** - Depositional characteristics of the Jurassic to Cretaceous basinal deposits in Southern Albania - AAPG European Regional Conference, Mesozoic and Cenozoic carbonates of the Neo-Tethys: old and new concept for petroleum exploration, 25-26 March 2014 – Naples, Italy

**R. Di Cuia, A. Riva, G. Gonano, R. Bitonte, 2013** - Cenozoic Unconformities Control On Source And Reservoir Distribution In The Apulian Carbonates Of The Southern Apennines Thrust Belt – AAPG European Regional Conference, Exploring the Mediterranean: New Concepts in an Ancient Seaway, 8-10 April 2013 – Princesa Sofia, Barcelona.

**Di Cuia R., Arboit F., Bitonte R., Riva A., 2012**, Relationship between structural style, stress field evolution and exploration results in the “high-folded zone” of zagros fold-thrust belt (Northern Iraq) - “HYDROCARBON EXPLORATION IN THE ZAGROS MOUNTAINS OF IRAQI KURDISTAN AND IRAN” Conference, London, January 2013.

**Korneva I., Tondi E., Agosta F., Di Cuia R., Bitonte R., Giorgioni M.,** Scaling relationships and permeability structures of fault zones crosscutting tight Cretaceous platform carbonates (Murge Plateau, southern Italy) – EGU General Assembly 2012 Wien.

**Arboit F., Di Cuia R., Riva A., Bitonte R., 2012**, Relationship between Structure and Stress Field - A Key for Successful HC Exploration in the Northern Zagros Thrust Belt, oral presentation, 74<sup>th</sup> EAGE Conference Copenhagen.

**Di Cuia R., Bitonte R., Rizzo G., Tondi E., Riva A., 2012**, 3D Structural Model of a Cretaceous Carbonate Sequence - Lessons Learned for Reservoir Modeling, 74<sup>th</sup> EAGE Conference Copenhagen.

**Bistacchi Andrea, Bitonte Raffaele, Franco Bonetto, Matteo Massironi, Giacomo Rozzo** – 3D modeling of golden-bearing quartz veins at footwall of a large normal faults post-metamorphic (Aosta-Ranzola fault, Brusson, Aosta Valley) (2007) -

Abstract published in the report of the Italian Geological Society Online.

Poster presented at the EGU 2007 Wien, GIGS 2007 in Urbino and at GIGS 2008 - Catania.

***List of projects 2011-2017:***

Europe:

COUNTRY	MAIN SUBJECT	COMPANY
Spain/France	Bay of Biscay: HC potential	Multiclient
Mediterranean Basin	HC potential Miocene carbonates in the Mediterranean area	Multiclient
Italy (Apulian region)	3D modelling of karst reservoir: an outcrop analogue approach	Lundin
Western-Central Mediterranean	Mediterranean Structural and stratigraphic framework of the Western Mediterranean	Getech/GEPlan
Spain	Valencia Trough Petroleum Prospectivity	Multiclient
Off-shore Albania and Greece	Albania and Western Greece Petroleum Prospectivity	Multiclient
Italy	Seismic interpretation Adriatic offshore	Multiclient
Spain	Characterisation of the fault and fracture network in the Escorpio and Acuario Blocks (Southern Spain)	OIL AND GAS CAPITAL,SL (ongoing)
Portugal/Spain	Off-shore prospectivity of the western Atlantic continental marginal	Multiclient (ongoing)
Albania	Structural characterization of the fault and fracture network to build a structural conceptual model	Petromanas/Shell
Offshore Italy	Environmental study for seismic survey (Gulf of Taranto)	SCHLUMBERGER
Offshore Italy	Technical and geological overview of Taranto Gulf for new exploration potentials	SCHLUMBERGER
Offshore Sicily (Italy)	Technical and geological overview of Sicily channel for new exploration potentials	SCHLUMBERGER
Italy	Environmental study for seismic survey (Sicily Channel)	WESTERN GECO
Italy	Environmental study for seismic survey (Adriatic offshore)	GLOBAL PETROLEUM
Italy	Sicily and Malta channels basin report:Petroleum Prospectivity	Multiclient
Italy	Application for an exploration permit "La Cerasa"	Shell Italia
Italy	Application for an exploration permit "Pignola"	Shell Italia
Albania	Structural and geological modelling for prospect and well results evaluation (geomechanical analysis)	SHELL & PETROMANAS
Italy/UK	GIS database management	DELTA Energy Ltd
Southern Italy	Digitalization and interpretation of 2D seismic lines	CYGAMENERGY
Offshore Italy	Seismic 2D interpretation	GLOBAL PETROLEUM
Albania	Structural modeling for prospect and well results evaluation	SHELL & PETROMANAS
Offshore Italy	DFN reservoir modeling building	EDISON
Onshore Italy	Environmental study for seismic survey	Delta Energy Ltd

Italy	Regional geology, Identification of main plays and prospects in the Southern Apennines	Multi-client
Onshore Italy	Environmental study for seismic survey	Delta Energy Ltd

Middle East - Asia:

COUNTRY	MAIN SUBJECT	COMPANY
Kurdistan (Northern Iraq)	3D seismic interpretation of the Shakal field	GAZPROM
Kurdistan (Northern Iraq)	Characterisation of the fault and fracture network and structural conceptual model of the Shewashan discovery (Khalakan Block, Kurdistan Region Northern Iraq)	New Age Ltd
Kazakhstan	3D Structural model of the carbonate reservoir in the Chinar field (Kazakhstan) (image log interpretation)	RES
Kurdistan (Northern Iraq)	Hydrocarbon prospectivity of the Zagros fold and thrust-belt (Kurdistan Region - Northern Iraq)	Multiclient
Onshore UAE	Calibration study of West Bukha DFN modelling (fieldwork and structural analysis)	DNO
Kurdistan (Northern Iraq)	Structural study of the Mirawa field	MARATHON
Kurdistan (North Iraq)	Structural study of the Atrush field (Fieldwork and seismic interpretation)	TAQA
Onshore UAE	Remote sensing analysis of the Bukha field	DNO
Kurdistan (Northern Iraq)	Integrated structural study of the Atrush field	MARATHON

Africa:

COUNTRY	MAIN SUBJECT	COMPANY
Mauritania	Outcrop analogue study in Precambrian Units	TOTAL
Mauritania	Geological Mapping and outcrop structural study	TOTAL

*Others*

- Strong interpersonal skills and working relationships
- Managed internships and thesis advisors.
- Willing to travel.
- Can quickly adapt to different cultures and environments.
- A strong team player with the ability to work independently.
- Results oriented, highly motivated, creative, and pro-active, flexible and enthusiastic.