Europass Curriculum Vitae

Andrea D'Ambrosio

Personal Information

First name / Surname	Andrea D'Ambrosio
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Nationality	Italian
Date of birth	31-05-1989

Education & training

October 2019: Oral and poster presentation at the PETROLEUM GEOLOGY STUDENT CONTEST - III Edition. Poster title: "Evolution of the Adriatic offshore Petroleum system through an integrated 2D modelling."

Authors: **D'Ambrosio Andrea**[1], Lipparini Lorenzo[1], Trippetta Fabio[1], Roblet-Bambridge Victoire [2] and Derks Jan Federik[2].

[1]Sapienza University of Rome, Earth Sciences Department, Rome, Italy.
[2]Software Integrated Solutions (SIS), Schlumberger, Aachen, Germany.

June 2019: Extended abstract presented at the 81^{th} EAGE Conference & Exhibition 2018 (London, United Kingdom). Abstract title: "A New Integrated Pseudo-3D Petroleum System Model of Central Italy and Adriatic Sea:Insights and Exploration Potential"

Authors: **D'Ambrosio Andrea**[1], Lipparini Lorenzo[1], Cassola Teodoro[2] and Derks Jan Federik[2]

[1]Sapienza University of Rome, Earth Sciences Department, Rome, Italy.
[2]Software Integrated Solutions (SIS), Schlumberger, Aachen, Germany.

DOI: 10.3997/2214-4609.201900729

April 2019: Abstract presented at the EGU General Assembly 2019 Vienna, Austria). Abstract title: "Thick versus thin crustal models of Central Apennines: results and insights from an integrated structural restoration and petroleum system modelling project."

Authors: **D'Ambrosio Andrea**[1], Sabina Bigi[1], Lipparini Lorenzo[1], Cassola Teodoro[2] and Derks Jan Federik[2]

[1]Sapienza University of Rome, Earth Sciences Department, Rome, Italy.
[2]Software Integrated Solutions (SIS), Schlumberger, Aachen, Germany.

November 2018: PhD career start at the University of Rome "La Sapienza", Department of Earth Sciences (DES). Title project: Geodynamic and thermal evolution, and structural restoration of the Central Apennine – Central Adriatic system through 3D modeling.

PhD supervisors:

Prof. Carlo Doglioni
Prof. Eugenio Carminati

-Research activity-

The goal of my research is to reconstruct the geodynamic and thermal evolution of my study area, located in central Italy (from the Central Apennines to the Central Adriatic Sea) using a 2D/3D approach.

In addition, a regional seismological study will represent an important part of my project. This will be done by constructing geomechanical models on high seismic hazard structures in the study area (both onshore and off-shore).

The initial phase of the project will focus on a bibliographic study / data collection to improve the geological knowledge of the area and select the material for the subsequent phases of the work. At the same time, I will to give my contribution to the project “Geodinamica e rischi naturali nell’offshore italiano” (agreement between Sapienza University and Ministrero dell’Industria e dello Sviluppo economico).

My work will be focused on increasing the GIS database of the project collecting public data from the literature (eg. geological maps, seismic sections, well data) for all the Italian offshore. Moreover, this database will also be used for the 2D/3D model construction of the Central Adriatic off-shore.

The second step will be the construction and structural restoration of different 2D models, starting from the Central Apennine area up to the Central Adriatic foreland.
At the same time, field work including sampling will be carried out on organic matter, in order to investigate the thermal maturity of sampled by using the following laboratory analyses:

1. Geochemical / mineralogical analysis (AFTA, TOC, Rock-eval pyrolysis, Smectite-Illite geothermometers)
2. Optical analysis (vitrinite reflectance).

As the last step of the project I will move on to 3D modelling, in which all the data collected and produced by the previous phases will be used to complete the 3D final model where the mechanical fault model will be tested using both the Petrel 3D and Poly3D software (Schlumberger software).

June 2018: Extended abstract presented at the 80^{th} EAGE Conference & Exhibition 2018 (Copenaghen, Denmark). Abstract title: “Oil sources and oil occurrences in the Central Adriatic off-shore: new insights and residual potential evaluation of an active petroleum system through 1D/2D Basin Modelling.”

Authors: Lipparini Lorenzo[1], **D’Ambrosio Andrea[1]**, Trippetta Fabio[1], Derks Jan Federik[2] and Roblet Bambridge Victoire[2].

[1]Sapienza University of Rome, Earth Sciences Department, Rome, Italy.
[2]Software Integrated Solutions (SIS), Schlumberger, Aachen, Germany.

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April 2018: Research internship (three months) at the Schlumberger in Aachen, Germany, in order to study the evolution and test the petroleum system in a fold and thrust belt environment. The work flow of the project provides:

1) Construction of a structural section using Move (Midland valley software)
2) Structural restoration of the section using Dynel (Schlumberger software)
3) 2D basin modeling work using PetroMod 2D (Schlumberger software)

January 2018: Degree in Exploration Geology (110 cum laude). Thesis title: "Regional study of the Adriatic off-shore petroleum system through an integrated 2D modelling." ("Studio regionale del sistema petrolifero off-shore adriatico attraverso un modelling integrato 2D." - University of Rome "La Sapienza").

November 2017: Two weeks of training on the job at the Schlumberger in Aachen, Germany, in order to carry out a 2D basin modeling work of the Central Adriatic off-shore petroleum system (the second part of my master's thesis) using PetroMod 2D.

October 2017: Curricular internship at "Istituto Nazionale di Geofisica e Vulcanologia" in Rome, concerning the subject "concept and analysis of seismic sequences and seismic baselines, analysis of seismic waveforms recorded by temporary and permanent networks, earthquake localizations, relationship between
seismicity and subsurface data".

June 2017: One week of training on the job at the Schlumberger in Aachen, Germany, in order to carry out a 1D basin modeling work of the Central Adriatic off-shore petroleum system (the first part of my master's thesis) using PetroMod 1D.

March 2017: "ECCSEL Training Course on research infrastructures for CO2 storage: specific focus on monitoring and natural laboratories" (6 hours).

December 2015: Three-year degree in Geology (104/110). Thesis title: "Friction characterization of calcite experimental fault at micrometrical granulometry in high deformation experiments." ("Caratterizzazione dell'attrito di faglie sperimentali in calcite a granulometria micrometrica ad alta deformazione." - University of Rome "La Sapienza").

July 2008: Secondary school diploma in Chemistry (70/100).

Three-year geology degree exams:

- Physical geography with cartography elements
- Mathematics
- General Physics
- Paleontology
- Geology I
- Geochemistry
- General inorganic chemistry with organic chemistry elements
- Petrography
- Mineralogy
- Geomorphology
- Introduction to Vulcanology

- Structural Geology
- Geophysics
- Geology e laboratory II
- Hydrogeology elements
- Applied geology
- Geological survey

Exploration Geology degree exams:

- Structural brittle geology
- Petrophysics
- Seismic interpretation and 3D modeling
- Geodinamics and sedimentary basins
- Solid earth physics
- Petroleum Geology
- Geophysical methodologies
- Carbonatic systems analysis
- Survey and analysis for thematic cartography
- Mediterranean area Cenozoic magmatism

Personal skills and competences

Mother tongue	Italian
Other languages	English
• **Reading**	Good
• **Writing**	Good
• **Speaking**	Good

Technical skills and competences

Excellent knowledge of **Office packages** (Word, Excel).
Advanced knowledge of **PetroMod 1D&2D**
Advanced knowledge of **Dynel 2D**
Good knowledge of **Move 2D**
Basic knowledge of **Petrel** and **Matlab**.
Operating systems: good knowledge of **Windows** and basic knowledge of **Linux**