

Giampaolo Proietti

Interests: Geophysics, Structural Geology, Reservoir G&G, CCS, Oil & Gas

During my career I specialized in the interpretation and 3D modelling of surface and subsurface data, in the field of petroleum geology, exploration and marine geology. During my PhD I focused on the screening, well log analysis, geological, petrophysical and reservoir modelling of potential CCS sites. Particular attention is on fractured reservoirs, combining field analysis and numerical modelling to simulate fluid flow in fractured rocks.

Education

- 01/11/2018 – 24/03/2022 PhD - Earth Sciences, La Sapienza University of Rome
Project: 'CO2 storage capacity estimation of fractured reservoirs in Adriatic Basin'
Main activities: Seismic interpretation of subsurface data; 3D and reservoir modelling; Numerical modelling; Fluid flow simulations; Estimation of CO2 storage capacity
- 21/10/2015 – 21/12/2017 Master's degree – Exploration Geology, Earth Sciences Dptm., La Sapienza University of Rome
Project: 'Study of post-belt basins in the Western Calabrian Arc through seismic data interpretation'
Main activities: Seismic interpretation of subsurface data; 3D modelling
Vote: 110/110 cum Laude
- 04/10/2012 – 20/10/2015 Bachelor's degree – Geological Sciences, Earth Sciences Dptm., La Sapienza University of Rome
Thesis: 'Geological mapping in Valle Leona area (Prati di Stroncone, TR)'
Main activities: Geological field mapping, structural and paleogeographic reconstruction
Vote: 105/110

Work Experiences

- July 2017 – November 2017 Trainee Sector: CNR-IGAG 'Geological subsoil modelling laboratory (GEOS LAB)'
Activities: Interpretation and modelling of subsurface data in a geothermal interest area.
- January 2017 – December 2017 Scholarship holder Sector: H-24 Library of Earth Sciences Department (La Sapienza University of Rome)
Activities: Distribution of educational material
- May 2017 Researcher student on Mobile Scientific laboratory onboard Oceanographic Vessel 'Minerva Uno' Oceanographic campaign 'Seismofaults 2017' (CNR - INGV - La Sapienza)
Activities: Acquisition, processing, and interpretation of bathymetric and geophysical data.
- January 2016 – December 2016 Occupation: Scholarship holder Sector: H-24 Library of Earth Sciences Department (La Sapienza University of Rome)
Activities: Distribution of educational material

Technical skills and Competences

- Technical skills**
- 2D seismic interpretation
 - 3D geological modelling
 - Petrophysical modelling
 - Fracture modelling
 - Reservoir modelling
 - Reservoir engineering
 - Reserves estimation
 - Fracture network numerical modelling
 - Fluid flow numerical modelling
 - Geological and structural field mapping
 - Multibeam data acquisition, processing and interpretation
 - Chirp data acquisition and interpretation
 - General knowledge of technical instruments for marine geophysical acquisition and offshore survey

- Computer Skills**
- Knowledge in the utilization of:
- Interpretation of seismic and well data - Petrel E&P Software platform (Schlumberger), DecisionSpace (LandMark, Halliburton)
 - 3D modelling - Petrel E&P Software platform (Schlumberger), Move (Midland Valley)
 - Fracture network and fluid flow modelling - Petrel E&P (Schlumberger), Eclipse (Schlumberger), dfnWorks (Los Alamos National Laboratory), FEHM (Los Alamos National Laboratory)
 - Multibeam, bathymetric data processing and interpretation - CARIS, GeoMapApp, GlobalMapper
 - Graphic - Adobe Illustrator and Photoshop
 - Microsoft Office (Word, Excel, PowerPoint)
 - Linux
 - Geospatial and geographic data - QGIS and ArcGis

Attended Courses

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| | <i>ECDL (European Computer Driving License)</i> |
| February 2018 | <i>Geology of Southern Tethys, Dominique Frizon de Lamotte</i> |
| February 2018 | <i>The post-fossil fuel era</i> |
| May 2018 | <i>Diploma ENOS 1st Spring School on CO₂ Geological Storage</i> |
| September 2018 | <i>Chronometry, Barometry and Fluid Geochemistry in Sedimentary Basin, Marta Gasparini (IFP)</i> |
| February 2018 | <i>Geoscience in the Energy Industry, Elena Morettini (YPF)</i> |
| December 2018 | <i>Petrel Reservoir Engineering, Schlumberger Technical Service, La Defense (Paris)</i> |
| December 2018 | <i>Carbonate seismic interpretation and sequence stratigraphy applied to hydrocarbon exploration, Marcello Badali (Repsol)</i> |
| January 2019 | <i>Gis Applications, Marta della Seta</i> |
| January – February 2019 | <i>Application for the Sibilla exploration license for the geological storage of carbon dioxide, Roberto Bencini</i> |
| February 2019 | <i>International Winter School Thermal history of basin-source systems: techniques, modelling and applications</i> |
| March-April 2020 | <i>Participation in the ENOS International II Level Master on CO₂ Geological Storage</i> |
| November 2020 | <i>Responding to societal needs with 3D geology: An international perspective, American Geosciences Institute</i> |
| January-February 2021 | <i>Geo-storage technology webinar series, ISPRA</i> |
| September 2021 | <i>Summer School The role of the Geoscientist in the Energy Transition - UniCam, Camerino, Italy</i> |

Publications

- Published**
- Billi, A., Cuffaro, M., Beranzoli, L., Bigi, S., Bosman, A., Caruso, C., Conti, A., Corbo, A., Costanza, A., D'Anna, G., De Caro, M., Doglioni, C., Embriaco, D., Fertitta, G., Frugoni, F., Gasperini, L., Italiano, F., Lazzaro, G., Ligi, M., Martorelli, E., Monna, S., Montuori, C., Nigrelli, A., Passafiume, G., Petracchini,

L., Petricca, P., Polonia, A., Proietti, G., Ruggiero, L., Sgroi, T., Tartarello, M.C., 2020. The SEISMOFAULTS project: First surveys and preliminary results for the Ionian Sea area, southern Italy. *Annals of Geophysics*, 63, doi: 10.4401/ag-8171.

Proietti G., Conti A., Cuffaro M., Esestime P. & Bigi S. 2021 - Subduction related faults and sedimentary basins: The Western Ionian Sea case. *Tectonophysics*, Volume 813, 2021, 228943

Proietti, G., Cvetković, M., Saftić, B., Conti, A., Romano, V., & Bigi, S. (2022). 3D modelling and capacity estimation of potential targets for CO₂ storage in the Adriatic Sea, Italy. *Petroleum Geoscience*, 28(1).

Technical reports

Cuffaro M. & the Seismofaults Team (2017), Report on the geophysical acquisitions and activities during Cruise Seismofaults, aboard R/V Minerva Uno. CNR – IGAG Cruise Report, www.seismofaults.it.

Conferences

Sgroi T., L. Beranzoli, C. Caruso, A. Corbo, A. Costanza, M. De Caro, G. D'Anna., C. Doglioni, D. Embriaco, F. Frugoni, F. Italiano, G. Lazzaro, S. Monna, C. Montuori, A. Nigrelli, G. Passafiume, A. Billi, M. Cuffaro, M. Albano, A. Bosman, L. Gasperini, M. Ligi, E. Martorelli, L. Petracchini, A. Polonia, D. Scrocca, M. Serracino, S. Bigi, A. Conti, G. Proietti, L. Ruggiero and M. C. Tartarello (2017), Investigation of active faults in the Ionian Sea through seismological, geochemical and bathymetric data: the SEISMOFAULTS project, AGU Fall Meeting, New Orleans (USA), December 2017.

Proietti G., Conti A., Cuffaro M., Esestime P. & Bigi S. - Structural setting and sedimentary basins in the Western Margin of the Calabrian Arc - *Geophysical Research Abstracts* Vol. 21, 2019. EGU General Assembly, Wien (Austria), April 2019.

Proietti G., Conti A., Romano V. & Bigi S. - Geological storage in fractured reservoirs of the Adriatic Basin – 'Roma chiama Roma' Conference, Earth Sciences Department, Roma Tre University, January 2020. • Proietti G., Romano V. & Bigi S. - A DFN approach to understand the behaviour of fluid flow in fractured rocks – Online TSG Tectonic Studies Group) Annual Meeting, January 2021

Proietti G., Romano V. & Bigi S - Efficiency of fractured networks for CO₂ storage – BeGeo Scientists Young Network, Napoli, October 2021

Seminars

EniWebinar. Proietti G. - CO₂ Storage Capacity Estimation in Fractured Aquifers: examples from Adriatic Sea

Awards

Avvio alla ricerca - 2020

Principal investigator *NETFLOW* Project, Cineca Supercomputing - 2021

Collaborations

CNR - IGAG - Seismofaults, Exploring the seismic faults of the Ionian Seafloor - Researcher onboard the Mobile Scientific laboratory, Oceanographic Vessel 'Minerva Uno' for acquisition, processing, and interpretation of geophysical and seismic data

Eni S.p.A - Analysis and interpretation of seismic and data, San Donato Milanese, Milan •

SPECTRUM Geo - Interpretation and data analysis for the reconstruction of Ionian Sea offshore relationship between deep faults and sedimentary basin

La Sapienza University proposal research project - Santantonio Massimo, Proietti Giampaolo - Jurassic tectonic evolution and sedimentary environment comparison of three plates margins: Europe (Sila Greca), African (Western Sicily) and 'Apula' (Central-northern Apennine)

Zagreb University - Faculty of Mining, Geology and Petroleum Engineering - 3D models generation of potential structures for the CO₂ storage in Adriatic Sea - Giampaolo Proietti, Bruno Saftić, Marko Cvetković

Los Alamos National Laboratory – Discrete Fracture Network modelling and CO₂ injection simulation to evaluate the efficiency of fracture networks to fluid flow - Proietti Giampaolo, Romano Valentina, Rajesh Pawar

Mother tongue Italian

Other languages

	READING		SPEAKING		WRITING
	Ascolto	Lettura	Interazione	Produzione orale	
English	B2	B2	B2	B2	B2

Various

Social skills Excellent ability to perform group activities acquired in the workplace and sports. Extremely predisposed to teamwork and cultural exchange. Excellent adaptability.

Artistic skills Sports, Guitar, Cooking, Drawing.

Additional information Available

Attachments Available

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree