

# Curriculum Vitae



## ***Personal information***

Name: Dario Viberti

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Dario Viberti is Associate Professor at the Department of Environment, Land and Infrastructure Engineering (DIATI) of the Politecnico di Torino. He is a senior reservoir engineer with more than 20 years of experience in Reservoir Dynamic Modelling, conventional and unconventional Well Test design and interpretation, production data analysis and computational methods applied to Reservoir Engineering. He is currently part of a multidisciplinary research group dedicated to Underground Hydrogen Storage research projects.

## ***Main research activity***

- Since 2019 Dario is part of a multidisciplinary research group dedicated to Underground Hydrogen Storage (UHS). In particular, He is the scientific leader of a group dedicated to Multiscale and Multiphysics characterization and simulation of physical phenomena involved in UHS.
- Since December 2017 coordinator of a research group dedicated to simulation, design and application of micromodels and microfluidic devices to address reservoir engineering challenges such as analysis, investigation and characterization of rock-fluid interaction properties, phase trapping mechanisms, emulsion behavior and treatments aimed at characterizing, designing and understanding displacement processes in the view of underground energy storage. The research group is made up of reservoir engineers, mathematical engineers, and geologists. Furthermore, the

research activity is carried out in collaboration with researchers from Politecnico di Torino DISAT Department and Istituto Italiano di Tecnologia (IIT).

- Since 2016, technical leader of a research group dedicated to development and application of analytical and numerical methodologies for Harmonic Pulse Testing design and interpretation.
- Since 2008, technical leader of a research group comprising reservoir engineers and mathematical engineers dedicated to 2D and 3D numerical dynamic modelling of monophasic and multiphase flow in reservoirs and optimization processes. Specific applications include: mud invasion modelling in the near wellbore volume; injection testing; testing of geothermal reservoirs.
- From 2002 to 2008 he was member of a research team dedicated to: modeling of oil and gas conventional reservoirs through the application of advanced techniques for production optimization and integrated reservoir management; development and implementation of algorithms for well log interpretation and uncertainties evaluation of petrophysical properties; development and implementation of numerical and analytical models to describe fluid flow in porous media; development and implementation of numerical methods based on the wavelet algorithms for well pressure data treatment.

### ***Main teaching activity***

Since 2008 courses on "Fluid Mechanics in Porous Media" at MSc in Petroleum and Mining Engineering and Second level Specializing Master in Energy Engineering and Operations, and the "Fundamentals of numerical modelling for multiphase flow in porous media" course at PhD level.

Consulting Associate Professor and Lecturer at IFP (Institut Français du Pétrole) Training from 2005 to 2014. During the collaboration, Dario Viberti was involved in a number of training and educational programs in France, Venezuela and Tunisia.

In 2015 courses on "Fundamentals of Reservoir Engineering" at the Eduardo Mondlane University, Maputo. Maputo, Mozambique.

In 2019 Courses on "Fluid Mechanics in Porous Media" at the Master of Science in Petroleum Engineering of Kazakh-British Technical University (KBTU) at the "Energy and Oil and Gas Faculty". Almaty, Kazakhstan.

### ***Editorial and reviewer activity***

Associate Editor for the SPE journal Reservoir Evaluation & Engineering since February 2014 (ISSN:1094-6470)

Technical Editor for the SPE journal Reservoir Evaluation & Engineering (ISSN:1094-6470) from January 2012 to April 2014.

He served as reviewer for several journals.

### ***Scientific Committee***

Member of the Programme Committee of the Offshore Mediterranean Conference OMC 2019 and OMC 2021.

Member of the Technical Committee of the SPE EUROPEC 2013 (London, UK, 10-13 June 2013) and SPE EUROPEC 2012 (Copenhagen, Denmark 4-7 June 2012).

Member of the Organization committee and Scientific Jury of the student paper contest at the Offshore Mediterranean conferences OMC 2019, OMC 2017, OMC 2015.

### ***Participation in start-ups and spin-offs***

Co-founder of the first spin-off of Politecnico di Torino, DREAM (Dedicated Reservoir Engineering and Management) in 2004. The spin-off provides specialized software and services with high technological content to the petroleum industry worldwide

### ***Others***

Dario was Member of the Board of Directors of the Society of Petroleum Engineers (SPE) Italian Section for more than a decade (up to 2020). He has been Faculty Advisor of the SPE (Society of Petroleum Engineers) Student Chapter "Augusta Taurinorum" of Politecnico di Torino since 2016. He has been organizer and promoter of several activities for students, such as conferences and mentoring events; student participation in conferences and international events (SPE Petrobowl).