

# CURRICULUM VITAE

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## Education:

MS Degree in Chemical Engineering (Politecnico di Milano)  
MS Degree in Chemical Engineering (École Polytechnique de Montréal)

Foreign languages: Fluent English and French, basic knowledge of Serbian

## Work Experience:

Position: Reservoir Engineer in Reservoir Modeling Department (MOGI)  
Company: Eni E&P Division (Italy)

11/2005 – present **[Res-Study]**: 3D full field dynamic model construction, initialization, history matching, forecast and prediction analysis of the El-Faras field in western desert, Egypt (with automatic history matching tool SimOpt);  
**[Res-Study]**: History matching, forecast and prediction analysis of the Ashrafi field (Egypt), a multilayer mixed sandstone and fractured reservoir (with automatic history matching tool *EnABLE*).

05/2005 – 11/2005 **[Res-Study]**: Support for the history matching of Belayim Land field, Egypt (with automatic history matching tool *EnABLE*, constrained to 120 producing wells and 50 years of history).

01/2005 – 05/2005 **[Res-Study]**: History matching and risk analysis of the Hawa field, Tunisia (with automatic history matching tool *EnABLE* and in house risk analysis software RARE);  
**[Know-How]**: R&D activity to develop a new automatic history matching software.

07/2004 – 12/2004 **[Know-How]**: R&D activity to test all the computer-aided history matching tools available in Eni E&P;  
**[Res-Study]**: Support for the risk analysis of Bhit field, Pakistan (with in house risk analysis software RARE).

05/2004 – 07/2004 **[Know-How, Res-Study]**: Support for the history matching of Europa II field, USA, deep water development (with automatic history matching tool *EnABLE*).

02/2004 – 05/2004 **[Know-How, Res-Study]**: Support for the history matching of Europa I field, USA, deep water development (with automatic history matching tool *EnABLE*).

08/2003 – 02/2004 **[Res-Study]**: 3D full field dynamic model construction, initialization, history matching, forecast and prediction analysis of the Meleiha SW field in western desert, Egypt.

05/2003 – 08/2003 **[Know-How]**: R&D activity to test and compare different automatic history matching tools (SimOpt, MEPO, *EnABLE*)

11/2002 – 05/2003 **[Know-How]**: R&D activity to test the automatic history matching software Condor (IFP) on the Meleiha AMAN-NW field, western desert, Egypt.

11/2002 **[Know-How]**: Assigned to CAHM (Computer aided History Matching) group in MOGI for innovation technology and know how support in Reservoir Department.

10/2002 Started to work in Eni E&P Division.

## Software Knowledge:

<b>ECLIPSE Related Software</b>	<ul style="list-style-type: none"> <li>✓ 3.5 years experience with ECLIPSE 100 and 300;</li> <li>✓ 3 years experience with automatic history matching tools like <i>EnABLE</i> (Energy Scitech), <i>SimOpt</i> (GeoQuest), <i>Cougar</i> (GeoQuest), <i>Condor</i> (IFP);</li> <li>✓ Established knowledge of the GeoQuest Office package (<i>FloViz</i>, <i>Office</i>, <i>Plan-Opt</i>, <i>Schedule</i>, <i>GRAF</i>, <i>PVTi</i>);</li> <li>✓ Basic experience with <i>Prosper</i> (Petroleum Expert) and <i>Petrel</i> (GeoQuest).</li> </ul>
<b>Other Software</b>	<ul style="list-style-type: none"> <li>✓ Excellent knowledge of Microsoft Office suite (<i>Word</i>, <i>Excel</i>, <i>Powerpoint</i>);</li> <li>✓ Full mastery of <i>Matlab</i>, <i>Fortran</i>, <i>Python</i>;</li> <li>✓ Medium knowledge of <i>C++</i>, <i>Visual Basic</i>, <i>Java</i>.</li> </ul>
<b>Operating Systems</b>	Windows, Unix, Linux.

### **Courses Attended:**

- 11/2002: Physics Of Porous Media, Core Analysis (N. Bona), Eni E&P
- 11/2002: Log Interpretation: Cased And Open-Hole (M. Gonfalini), Eni E&P
- 11/2002: Cluster Analysis (V. Donagemma), Eni E&P
- 12/2002: Geochemistry and Rock Mechanics, Eni E&P
- 01/2003: Reservoir Geology (B. Volpi), Eni E&P
- 01/2003: Thermodynamics and PVT (P. Ceragioli), Eni E&P
- 01/2003: Well Testing (E. Beretta), Eni E&P
- 02/2003: Eclipse Basic (Schlumberger Consultant), Eni E&P
- 02/2003: Numerical Reservoir Simulation (A. Cominelli), Eni E&P
- 02/2003: Basic Reservoir Engineering (F. Masserano), Eni E&P
- 04/2004: Eclipse 100 Advanced (Schlumberger Consultant), Eni E&P
- 04/2004: Reserves Evaluation and Estimation

### **Courses Held:**

- Computer-Aided History Matching, Eni E&P, San Donato Milanese, Italy (1<sup>st</sup> edition, September 2004);
- Computer-Aided History Matching, Eni E&P, San Donato Milanese, Italy (2<sup>nd</sup> edition, September 2005);

### **Conferences:**

- **SPE** Reservoir Simulation Symposium, Houston, Texas, 31 January 2005 – 2 February 2005;
- 67<sup>th</sup> **EAGE** Conference & Exhibition, Madrid, Spain, 13 – 16 June 2005

### **Publications:**

- ✓ Multidisciplinary Workflow for Oil Fields Reservoir Studies-Case History-Meleiha Field in Western Desert, Egypt (SPE94066) - S. Campobasso, A. Gavana, G. Bellentani, I. Pentoli, M. Pontiggia, L. Villani & T.H. Abdelsamad. Paper presented at the 67<sup>th</sup> EAGE Conference & Exhibition, Madrid, Spain, 13-16 June 2005.
- ✓ Gavana, A. and Gomez, S.: “Global And Local Optimization For Parameter Estimation In Oil Reservoirs”