

# Neda AMANAT

## Educations

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- Nov.2017- Present**      **Ph.D. in Chemical Engineering**, Sapienza University of Rome, Rome, Italy
- Nov.2016- Jul.2017**      **Specialization in Tecnico Ambiente Energia e Sicurezza**, Euroqualità Soc., Turin, Italy  
GPA: 100/100
- Oct.2011- Jul.2014**      **M.Sc. in Petroleum Engineering**, Politecnico di Torino, Turin, Italy  
GPA: 96/110
- Sep.2005- Jun.2009**      **B.Sc. in Chemical Engineering**, Shiraz University, Shiraz, Iran  
GPA (Last Four Terms): 14.85/20  
Overall GPA: 14/20
- Oct.2001- Jul.2004**      Diploma in Mathematics and Physics, Dr. Hesabi High-School, Shiraz, Iran  
GPA: 18.96/20

## Research Projects

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- Nov.2017 Present**      **Ph.D. Research Project**  
**Thesis:** Development of effective technologies for the remediation of soil and groundwater contaminated by Non-Aqueous Phase Liquids (NAPLs)  
**Supervisor:** Prof. Marco Petrangeli Papini
- Oct.2013 Jul.2014**      **Master Research Project**  
**Thesis:** Applying numerical simulation to evaluate the effectiveness of gas and water injection in different cases  
**Supervisor:** Prof. Dario Viberti **Summary:**  
The main objective of the study was to review part of the available technical literature, to discuss some of the technical aspects and to perform a comparative simulation study by using ECLIPSE 100 simulator to evaluate the effectiveness of gas injection and water injection as EOR methods.
- May2008- Jun.2009**      **Bachelor Research Project**  
**Thesis:** Measurement of wax and asphaltene in crude oil by a simple laboratory method **Supervisor:** Dr. Fereidoun Esmailzadeh  
**Summary:**  
The research project was collaborated with Ahvaz Refinery in order to investigate the effect of the operating conditions on the precipitation of wax and asphaltene in pipelines. The study included two parts. In the first section, the optimum period of the soxhelt extraction on separating wax and asphaltene was obtained. In the second part, series of experiments have been performed on the simulated Ahvaz pipeline in order to study the effect of the operating conditions on the precipitation of wax and asphaltene in pipelines.

## Teaching and Work Experiences

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- May.2018-  
Apr.2019**      **Research Assistance**  
University of Rome “La Sapienza”, Rome, Italy
- Apr.2017-  
Jul.2017**      **Stage, Researcher**  
KiteGen Venture, Turin, Italy
- ✦ KiteGen Company develops a new technology for the transformation of high-altitude wind energy into electricity
- Jan.2016-  
Jun.2016**      **Teaching as a tutor**, Turin, Italy  
Risk Analysis  
Reservoir Engineering
- Oct.2014-  
Sep.2015**      **Trainee, Process Engineer**  
Fars Consultant Engineering Company, Shiraz, Iran
- ✦ Performing safety studies of HAZOP, FMEA, FTA, Reliability, Availability and Maintainability Analysis,
  - ✦ Reviewing supplier drawings for information relative to design of facilities,
  - ✦ Familiar with piping materials and all basic and detail engineering documents for piping,
  - ✦ Excellent knowledge of PFD, P&ID, UDD, vendor drawings, process data sheets and structure drawings
- Dec.2012-  
May2013**      Part time job in Central Library of Engineering, Politecnico di Torino, Turin, Italy
- Sep.2010-  
Dec.2010**      **Trainee, Chemical Engineer**  
PIDEC (Petrochemical Industries Design and Engineering Company), Shiraz, Iran
- ✦ Preparation of engineering documents for safety engineering and firefighting systems,
  - ✦ Preparation of procedures and performing: HAZID Study, HAZOP study and safe handling of hazardous Material
- 2007-  
2008**      **Teacher Assistant**, Shiraz University, Shiraz, Iran  
Petroleum and Unit Operation Laboratory
- Main Course Projects**
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- Dec.2012**      **Well Testing and Interpretation**, Politecnico di Torino
- ✦ Using Paradigm™ Interpret® Software to build a best match model in terms of well pressure response for different model cases.
- Nov.2012**      **Reservoir Engineering and Simulation**, Politecnico di Torino
- ✦ Performing a history matching for a case study reservoir using ECLIPSE software to assess the reservoir parameters and optimizing the well locations to achieve the highest oil recovery.
- Dec.2012**      **Oil and Gas Transportation**, Politecnico di Torino
- ✦ Designing a pipeline capable of supplying portable water and oil for a generic city

- Oct.2012**     **Risk Analysis**, Politecnico di Torino  
✦ Applying HAZOP, FMECA, Event Tree Analysis (ETA), Fault Tree Analysis (FTA), Availability and Reliability Analysis for a natural gas plant
- Oct.2009**     **Water and Waste Water Treatment**, Shiraz University  
✦ Scaling Prevention and Monitoring
- Mar.2008**     **Heat Transfer**, Shiraz University  
✦ Design of the Air Conditioning System for a Building
- Nov.2008**     **Heat Transfer**, Shiraz University  
✦ Simulating of porosity in porous area, in a cube filled with cylinders and spheres by **MATLAB** software

## **Publications**

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- Jun.2018**     **Poster presentation at ISEB2018-EBCVII: “ADSORPTION OF CHLORINATED SOLVENTS AND HEAVY METALS ONTO LOW-COST MATERIALS (BIOCHARS) IN GROUNDWATER REMEDIATION”**, Marta M. Rossi, Neda Amanat, Angela Hady, Elisabetta Marconi, Maria Luisa Astolfi, Ludovica Silvani, Marco Petrangeli Papini, Chania, Greece

## **Academic Seminars**

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- May.2018**     **On the Road from Wastewater treatment to a PHA production factory**, La Sapienza
- Dec.2017**     **Biofuels: a new tool for the sustainable development in the transport sector or, an ecological whim**, La Sapienza
- Dec.2017**     **Biomass to liquid and gas biofuels: challenges and I&D advances**, La Sapienza
- Jan.2013**     **Geomechanics Upscaling**, Politecnico di Torino & TNO
- Dec.2012**     **Formation Fluid Characterization with Wireline Formation Testing**, Politecnico di Torino & Schlumberger
- Jun.2012**     **Basic Log Interpretation**, Politecnico di Torino & Eni
- May.2012**     **Seismic Interpretation**, Politecnico di Torino & Eni
- Apr.2012**     **Seismic Acquisition and Processing**, Politecnico di Torino & Eni

## **Conferences**

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- Jan.2019**     **AIDIC Conference, The sustainable society of the future- The rule of Chemical Engineering**, Rome, Italy
- Sep.2018**     **RemTech Expo 2018**, Ferrara, Italy
- Jun.2018**     **7th European Bioremediation Conference (EBC-VII) and the 11th International Society for Environmental Biotechnology conference (ISEB 2018)**, Chania, Greece
- Mar.2012**     **Offshore Mediterranean Conference (OMC)**, Ravenna, Italy

May.2007 7<sup>th</sup> National Conference of Chemical Engineering Students, Shiraz, Iran

## Personal Skills

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**Computer Skills** SigmaPlot, MATLAB, HYSYS, ASPEN, ECLIPSE, PETREL, AUTOCAD  
Microsoft Office™ tools, Microsoft Windows

**Language Skills** Persian: Native, Mother Tongue  
English: Fluent  
Italian: Intermediate

**Management Skills**

- Councilor of Iranian Student Association, Turin, Italy
- Main holder of cultural events in Toranj Association, Turin, Italy
- Active Member in Iranian Turin's Student Newspaper, Turin, Italy
- Active Member of Student Scientific Association, Shiraz, Iran **Other**

**Skills** Playing violin

## Honours and Awards

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**2018-2019** Winner of **research assistance's** position from Chemical Department of University of Rome "La Sapienza"

**2011-2014** Ranked the **Top 5%** among M.Sc. students in Petroleum Engineering, Politecnico di Torino

**2012-2014** Winner of Edisu scholarship in my **M.Sc. in Petroleum Engineering**, Politecnico di Torino

**2005** Ranked the **Top 1%** among applicants in the Nation University Entrance Exam for B.Sc.

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n.196 "codice in materia di protezione dei dati personali"