

## DEGHANI Peyman

14 rue des frères lumière, 92500 Rueil-Malmaison, France.

[Peyman.deghani@ifpen.fr](mailto:Peyman.deghani@ifpen.fr) / [Peymandehghani676@gmail.com](mailto:Peymandehghani676@gmail.com)

(+33) 0768632513



## EDUCATION

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| Sep 2022 - Present<br>Paris, France          | <b>PHD of Geotechnics</b><br>ParisTech, Ecole nationale des ponts et chaussées (ENPC).<br><i>Thesis : Carbon Storage - Cinétique de formation d'hydrates de CO2 en milieu poreux.</i><br><b>Contact:</b> <a href="mailto:anh-minh.tang@enpc.fr">anh-minh.tang@enpc.fr</a> , Anh Minh TANG (ENPC).<br><b>M2 of Petroleum Engineering – Production (GPA 15.12/20 - Class rank 3 /12)</b><br>University of Pau and the Adour Region, France.<br>• <b>Coursework:</b> Flow assurance, Processes, Unconventional resource, Well performance.<br><b>Contact:</b> <a href="mailto:christophe.dicharry@univ-pau.fr">christophe.dicharry@univ-pau.fr</a> , Christophe Dicharry (Responsible for the M2).<br><b>M1 of Petroleum Engineering – Production (Class rank 7/14)</b><br>University of Pau and the Adour Region, France.<br>• <b>Coursework:</b> Reservoir engineering, Thermodynamics, Interfaces, Geochemistry, Data analysis, Material and heat transfers.<br><b>Contact:</b> <a href="mailto:romain.vermorel@univ-pau.fr">romain.vermorel@univ-pau.fr</a> , Romain Vermorel (Responsible for the M1). |
| Sep 2021—Aug 2022<br>Pau, France             |  |
| Sep 2020—May 2020<br>Pau, France             |  |
| Jan 2018—May 2020<br>Aix-en-Provence, France | <b>Academic language and French Culture Diploma, Level A1, B1+, B2, B2+, C1</b><br>University of Aix-Marseille, France.  |
| Sep 2012—May 2014<br>Shiraz, Iran            | <b>Master of mechanical engineering - Reactor (GPA 16.36/20 - Class rank 2/13)</b><br>University of Shiraz, Iran (800-850 <sup>th</sup> overall, and 5 <sup>th</sup> in Iran based on QS University Rankings).<br>• <b>Coursework:</b> Thermodynamics, Heat Transfer, Reactor dynamic, numerical analysis.   |
| Sep 2007—May 2011<br>Shiraz, Iran            | <b>Bachelor of Power engineering (GPA: 14.08/20, GPA last two semesters: 17.03/20)</b><br>University of Shiraz, Iran.  |

## PUBLICATIONS

- **Deghani P, Sinquin A, Gland N, Tang A.M, Audrey E (2023) Investigating cyclopentane hydrates nucleation and growth using microfluidics.** Science and Technology for Energy Transition.
- Pirouzmand, A., Kowsar, Z., **Deghani, P. (2018), Atmospheric dispersion assessment using HYSPLIT code,** Journal of Hydrogen Energy.
- Pirouzmand, A., **Deghani, P., Hadad. (2015). Dose assessment dispersion under normal operation and accident conditions,** Progress in Energy.

## EXPERIENCES

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| 2022 - Present<br>Rueil-Malmaison,<br>France | <b>IFP Energies nouvelles (IFPEN)</b><br>Physico-chemistry and applied mechanics.<br><b>Contact:</b> <a href="mailto:anne.sinquin@ifpen.fr">anne.sinquin@ifpen.fr</a> , Anne SINQUIN (IFPEN). <a href="mailto:nicolas.gland@ifpen.fr">nicolas.gland@ifpen.fr</a> , Nicolas GLAND (IFPEN).                  |
| 2022<br>Rueil-Malmaison,<br>France           | <b>IFP Energies nouvelles (IFPEN)</b><br><b>Internship:</b> Development of tests to study the kinetics of cyclopentane hydrate formation<br><b>Contact:</b> <a href="mailto:anne.sinquin@ifpen.fr">anne.sinquin@ifpen.fr</a> , Anne SINQUIN (Internship supervisor)  |
| 2014—2017<br>BandarAbbas, Iran               | <b>IRAN Shipbuilding &amp; Offshore Industries Complex (ISOICO), EPCI (<a href="mailto:info@isoico.com">info@isoico.com</a>)</b><br>Piping and Mechanical engineering on oil and gas, offshore project as a senior engineer. <a href="#">Certificate</a><br>• 3D modeling, Installation, Hydrostatic test. |
| 2016<br>Kish Island, Iran                    | <b>Kish Institute See Safety School (SSS), (<a href="mailto:info@kish-safety.com">info@kish-safety.com</a>)</b><br>Certificate of safety induction, Sea survival, Basic firefighting, First aid, H2S. <a href="#">Certificate</a>  |

## FORMATION

(1). Introduction to Renewable Energies - 17.5 h (2). Energy Economics - 35 h (3). Summer School Microfluidics - 26.5 h (4). Energy & Research School 2024 - 29 h (5). Hybrid & Electric Powertrains - 28h (6). Equipement sous pression niveau 1 and 2 par Apave (7). Théorie spectroscopie Raman par Thermo Fisher.

## SIMULATION and PROGRAMMING

| <u>SOFTWARE</u> | <u>Certificat</u> | <u>SKILL</u> | <u>SOFTWARE</u> | <u>Certificat</u> | <u>SKILL</u> |
|-----------------|-------------------|--------------|-----------------|-------------------|--------------|
| Excel           |                   | ● ● ● ● ● ○  | MS Project      | Yes (14 h)        | ● ● ● ○ ○ ○  |
| Prosim          |                   | ● ● ● ● ○ ○  | AutoCAD         |                   | ● ● ● ○ ○ ○  |
| LedaFlow        | Yes (24 h)        | ● ● ● ● ○ ○  | Python          | Yes (14 h)        | ● ● ● ○ ○ ○  |

## LANGUAGES

**French** Diploma of Aix Marseille University (C1)/(TCF C1), **English** (B2/C1), **Persian** (Native)