

# Zahra Almahmoodi

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## PERSONAL INFORMATION

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- **Gender:** Female
- **Date of Birth:** 27 June 1999
- **Place of Birth:** Broujerd, Iran
- **Citizenship:** Iranian
- **Marital Status:** Single

## EDUCATION

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- **University of Tehran, faculty of Engineering** Tehran, Iran  
*Master of Engineering - Reservoir Engineering ; GPA: 18.73/20 - GPA: 4/4* *Sep 2021 - Present*  
*Courses: Geo statistics and Reservoir modeling, Phase behavior and Properties of Petroleum Reservoir Fluids, Porous media transport phenomena, Reservoir simulation, Natural fractured reservoir*
- **University of Tehran, faculty of Engineering** Tehran, Iran  
*Bachelor of Engineering - Petroleum Engineering ; GPA: 19.32/20 - GPA: 4/4* *Sep 2017 - Sep 2021*  
*Bachelor's Thesis: Cut-off Values Determination of Reservoir Properties by Dynamic Methods*
- **Farzanegan Public High school** Broujerd, Iran  
*National Organization for Development of Exceptional Talents; GPA: 18.33/20 - GPA: 4/4* *Sep 2013- June 2017*  
*Highschool Diploma in Mathematics and physics*

## EXPERIENCE

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- **Research Assistant** Tehran, Iran  
*University of Tehran* *June 2020 - Present*
  - **Research topic:** Carbone capture and storage (CCS), Reservoir cutoff determination, Underground hydrogen storage (UHS), Gas injection in fractured reservoir
- **Teaching Assistant** Tehran, Iran  
*University of Tehran* *Feb 2020 - Present*
  - **Classes:** Mentored a core of 25+ students for 3 college semesters.
  - **Courses:** Reservoirs Fluid Properties, Enhanced Oil Recovery methods, Reservoir Engineering 1, Reservoir Simulation
- **Conferences Experience** Tehran, Iran  
*17th National Congress of Chemical Engineering of Iran* *Fall 2021*
  - **Paper Presentation:** Simulation of Hydrogen Underground Storage in a Partially Depleted Gas Condensate Reservoir
- **Internship** Tehran, Iran  
*Industrial Researching* *Summer 2021*
  - **Research Topic:** Cut-off Values Determination of Reservoir Properties by Mobility Based Method
- **Competition Experience** Tehran, Iran  
*PetroTest-Student Researcher* *Winter 2019*
  - **Attend training workshops:** Learning how to perform each phase of an industrial project
  - **Implementing a real project:** Conducting a project in a problem area of the oil industry

## SKILLS SUMMARY

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- **Languages:** English, Persian (Native)
- **Software:** MATLAB, Basic C++, saphir, Petrel, Eclipse, Microsoft office
- **Soft Skills:** Leadership, Team Work, Compatibility, Problem solver

## PROJECTS

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- **Cut-off Values Determination of Reservoir Properties by Dynamic Methods** June 2021 - Present  
*Bachelor's Thesis*  
*Determination and Validation of Cut-off Values for one of the Fields in South of Iran*
- **Simulation of Hydrogen Underground Storage in a Partially Depleted Gas Condensate Reservoir** Fall 2021  
*Theoretical Research for Application of Underground Hydrogen Storage for Electricity Generation*  
*Simulation of Hydrogen Underground Storage in one of the Fields in Iran*
- **Simulation of Pressure Distribution in Oil Reservoir** Spring 2021  
*Reservoir Simulation Course*  
*Implemented Reservoir Simulation in MATLAB*
- **Application of Fuzzy logic in EOR Screening Assessment** Fall 2020  
*EOR Course*  
*Implemented Fuzzy Algorithm in MATLAB for EOR Screening methods*
- **Application of Carbon Capture and Storage(CCS) in Preventing Global Warming** Summer 2020  
*Industrial Project*  
*Theoretical Research for Implementation of CCS Project in Iran*

## PUBLICATIONS

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- **New dynamic methods for studying the reservoir cut-off for a heterogeneous reservoir:** Presented in 3rd International Conference on the: New Technologies in the Oil, Gas and Petrochemical Industries (March 2022)
- **Simulation of Hydrogen Underground Storage in a Partially Depleted Gas Condensate Reservoir:** Presented in 17th National Congress of Chemical Engineering of Iran (Fall 2021)

## HONORS AND AWARDS

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- Granted admission from Talented Student office of University of Tehran, entrance exam waived - Fall 2021
- Granted admission from Talented Student office of Sharif University, entrance exam waived - Fall 2021
- Awarded by the University of Tehran for standing first amongst 28 undergraduate students - 2018,2019,2020,2021
- Awarded National Elite Foundation Scholarship - 2018, 2019

## SELECTED COURSES

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- Reservoir Fluids Properties (20/20)
- Enhanced Oil Recovery Methods (20/20)
- Reservoirs Simulation (20/20)
- Reservoirs Engineering 1 (19.75/20)
- Reservoirs Engineering 2 (19.75/20)
- Production Engineering 1 (19/20)
- Reservoirs Rock Properties (19/20)

## AREAS OF INTEREST

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- Gas Storage (CCS and Hydrogen Storage)
- Fluid Properties
- Renewable Energy
- Global Warming
- Reservoir Simulation
- Fluid Mechanics