

# Milad Tulabi

## Curriculum Vitae

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### EDUCATION

- 2015 to 2018 **Masters of Science in Chemical Engineering - Environmental Engineering**  
School of Chemical Engineering, College of Engineering, University of Tehran, Tehran, Iran
- Supervisor: Prof. Sh. Fatemi
- 2012 to 2015 **Bachelor of Science in Chemical Engineering**  
School of Chemical Engineering, College of Engineering, University of Tehran, Tehran, Iran
- **Ranked 1<sup>st</sup>** among B.Sc. students
  - Supervisor: Dr. M.A. Aroon

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### RESEARCH INTERESTS

- Machine Learning / Deep Learning
- Process Design / Process System Engineering
- Modeling and Simulation

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### SKILLS

- Computer
- Aspen Hysys: Expert
  - Aspen Adsorption: Expert
  - SuperPro designer: Intermediate
  - COMSOL multiphysics: Intermediate
  - Minitab, Design Expert: Advanced
  - MATLAB: Intermediate
  - Python: Intermediate
  - C++: Intermediate
  - git: intermediate
- Laboratory
- Hydro- and Solvo-Thermal Synthesis and characterization of Imidazolate-based MOF
  - Construction of adsorbent and catalytic bed for batch and continuous configuration / fixed and fluidized bed
  - Analysis with XRD, FESEM, BET, GC results
- Language:
- English: Advanced - TOEFL iBT (2015): 89
  - Persian (Farsi): Mother Tongue

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### RELATED EXPERIENCES

- Since July 2022 **Assistant Product Manager / Python Developer at Simorgh (a social media)**  
**Description:** In this company, we developed a social media to connect change seeking people in education field
- Responsibilities:**
- R 1: Customer Analysis
  - R 2: Implement and Test Features
  - R 3: Product Analysis

- Sep. 2019 **Research Assistant at CCERCI**  
 to **Description:** Aim of the project was to lower the energy consumption of the MTO process by  
 Feb. 2022 developing a core-shell catalyst  
**Responsibilities:**  
 R 1: Synthesis Industrial Catalyst (SAPO-34)  
 R 2: Test Run the catalyst in Fluidized Bed  
 R 3: Synthesis Core-Shell SAPO-34  
 Seminar 1: Methanol To Light Olefin Conversion: Process, Technology and Catalysts  
 Seminar 2: Methanol To Light Olefin Conversion: Industrial Catalyst and  
 Core-Shell-based Developments
- May 2019 **Research And Development Specialist at Ebtakar Avaran-e Amn:**  
 to **Description:** Aim of the project was to develop a new car care detergent  
 Jan. 2020 **Responsibilities:**  
 R 1: Detergent Formulation Tests  
 R 2: Constructing R&D Lab. (Equipment and Precursor Preparation)
- April 2016 **Research Assistant at Adsorption, Modeling and Nanomaterials Laboratory**  
 to **Description:** Aim of the project was to develop a ZIF-based paraffin selective adsorbent to  
 Aug. 2018 separate light olefin from light paraffin  
**Responsibilities:**  
 R 1: Synthesis ZIF-8 and ZIF-67 (using Hydro- and solvothermal methods)  
 R 2: Constructing Static and Dynamic Adsorption System and Test Behavior of  
 Adsorbents  
 R 3: calculate MTC, diffusion coefficient, adsorption coefficients and enthalpy of  
 adsorption using mathematical modeling experiments by MATLAB  
 R 4: calculate purity and recovery of ethylene in VSA and PSA separation processes  
 using Aspen Adsorption
- July 2015 **Intern, Research Institute of Petroleum Industry**  
 to **Report:** Review on Applications of Hybrid Nanofluid for Heat Transfer Enhancement  
 Sep. 2015

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## AWARDS

- 2016 Titled as an "elite" student and exempted from taking the Nation-wide University Entrance Exam for Graduate Studies due to being among top 10% of bachelor students in the School of Chemical Engineering, University of Tehran, Tehran, Iran.
- 2015 Awarded the Faculty Of Engineering (FOE) prize for being ranked 2nd among senior students of the School of Chemical Engineering, University of Tehran, Tehran, Iran
- 2014 Awarded the Faculty Of Engineering (FOE) prize for being ranked 2nd among sophomore students of the School of Chemical Engineering, University of Tehran, Tehran, Iran

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## TEACHING ASSISTANT

Statistics and Experiment Design  
 Advanced Mathematics  
 Mass Transfer phenomena  
 Heat Transfer phenomena  
 Fluid Mechanic

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## LEADERSHIP AND ACTIVITIES

Education-related non-profit organization, Tehran, **Digital Marketing Manager**  
 Amateur Astronomers Association, University of Tehran, **Member**  
 4th National Congress on Hydrogen and Fuel Cell, University of Tehran, **Member of the Executive Team**  
 Tolou Charity, Rasht, **Volunteer**

Tornado Chem-e-Car Team, University of Tehran, **Team leader**

University of Tehran, Application of Mixed Matrix Membrane in gas separation, **Student**

University of Tehran, Simulation of Sulfuric Acid Plant Production by Aspen Hysys, **Student**

University of Tehran, Separation Process of Xylenes Review and Simulation by Aspen Hysys, **Student**

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## WORKSHOPS AND COURSES

Hands-on Introduction to Linux Commands and Shell Scripting, IBM

Getting Started with Git and GitHub, IBM

Python for Data Science, AI & Development, IBM

Introduction to Software Engineering, IBM

Supervised Machine Learning: Regression and Classification - Coursera

Machine Learning with Python - Maktabkhooneh

Advanced Learning Algorithms - Coursera

Intro to Deep Learning, Kaggle

Intro to Game AI and Reinforcement Learning, Kaggle

Pandas, Kaggle

Intermediate Machine Learning, Kaggle

Intro to Machine Learning, Kaggle

Python, Kaggle

Machine Learning by Andrew Ng, Coursera

Process Design, Research Institute of Petroleum Industry

Introduction and Recognition of Nanostructures. University of Tehran