



**POLYTECHNIQUE
MONTRÉAL**

**LE GÉNIE
EN PREMIÈRE CLASSE**

Afshin Fallahi

- Montréal, Québec H3R1Y9
- afshin-2.fallahi@polymtl.ca

Education

- **École Polytechnique de Montréal, Québec, Canada**

M.Sc. Degree, Department of Chemical Engineering

Thesis: “Experimental study of volumetric gas-liquid mass transfer coefficient in slurry bubble columns”

- **Iran University of Science and Technology, Tehran, Iran**

M.Sc. Degree, Department of Chemical Engineering-Design, Simulation and Process Control

Thesis: “Experimental and CFD simulation study of mass transfer from nanofluid single drop in liquid-liquid extraction’s system” (**GPA: 18.92 of 20; Top student**)

- **Shiraz University, Shiraz, Iran**

B.Sc. Degree, Department of Chemical Engineering-Petrochemical Industries

Research Interests

- Chemical process design, development, and optimization
- Chemical reaction engineering
- Computational fluid dynamics
- Mathematical and computer-based modeling
- Transport phenomena: momentum, heat and mass transfer
- Chemical process dealing with Nano-scaled particles
- Mass transfer and hydrodynamics of bubble column reactors at ambient and extreme conditions

Skills

- Mathematical Modeling and MATLAB programming
- computational fluid dynamics (CFD), ANSYS Fluent, GAMBIT, COMSOL Multiphysics
- GPS-X and Model Maker software
- Aspen HYSYS



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Experience

- Research and Process Engineer, 2017-2019
École Polytechnique de Montréal & TOTAL / Montréal, QC, Canada
- Laboratory Research Assistant 2016-2017
Process Engineering Advanced Research Lab (PEARL)/ Montréal, QC, Canada
- Chemical Researcher 2013- 2015
Iran University of Science and Technology (IUST)- Tehran, Iran
- College Instructor and Educational consultant 2009-2013
Rahian Daneshgah- Tehran, Iran