



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

## Education

- **École Polytechnique de Montreal, Quebec, Canada** 2018-2019  
*M.Sc. Degree, Department of Chemical Engineering*  
Thesis: “Experimental study of Mass Transfer in Three-phase Bubble Column Reactors at high-pressure and high-temperature”
- **Iran University of Science and Technology, Tehran, Iran** 2013-2015  
*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** 1990-1995  
*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

- Modeling and simulation of fluid-structure interaction problems
- Verification and validation of CFD codes and simulations with experimental results
- Knowledge of Gambit & Fluent & comsol
- Knowledge of programming and simulation via MATLAB/Simulink
- Limited knowledge of HYSYS



**POLYTECHNIQUE  
MONTRÉAL**

**LE GÉNIE  
EN PREMIÈRE CLASSE**

## **Afshin Fallahi**

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### **Industrial Experience**

- Research Assistant, 2016-2018  
Process Engineering Advanced Research Lab (PEARL), Montréal, QC, Canada
- Research & Product Engineer 2011-2013  
Fara Eman Baspar Co., Tehran, Iran
- Research Engineer 2004 -2011  
Fara Eman Baspar Co., Tehran, Iran
- Supervisor - Pesticides product 1997-1998  
Chimi-keshavarz Co., Ghazvin, Iran

### **Academic Experience**

- Chemistry & mathematics teacher & senior advisor education 1998-2013  
Secondary school and college level, Iran