



Education

- **Polytechnique Montreal, Montreal, QC, Canada** (since 2021)
Ph.D. Student, Department of Chemical Engineering
- **University of Tehran, Tehran, Iran** (2011-2013)
M.Sc. Degree, Department of Chemical Engineering
- **University of Tehran, Tehran, Iran** (2007-2011)
B.Sc. Degree, Department of Chemical Engineering

Research Interests

- CFD modeling
- Renewable energy
- Artificial intelligence
- Process design

Work Experience

- Iranian Offshore Engineering and Construction Company (IOEC), Tehran, Iran Process Engineer (2015-2020)
- Polytechnic University of Milan, Milan, Italy Research Fellow (2020-2021)

Teaching Experience

- Differential Equations and Boundary Value Problems, University of Tehran, Tehran, Iran Teaching Assistant (2012)
- Numerical calculations, University of Tehran, Tehran, Iran Teaching Assistant (2012)



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| • Advance Applied Mathematics in Chemical Engineering, University of Tehran, Tehran, Iran | Teaching Assistant | 2014 |
| • Unit Operation, University of Tehran, Tehran, Iran | Teaching Assistant | 2013 |
| • Applied Mathematics in Chemical Engineering, University of Tehran, Tehran, Iran | Teaching Assistant | 2013 |
| • Basic physics, University of Tehran, Tehran, Iran | Teaching Assistant | 2012 |
| • Aspen Pinch, CFD simulation, pipeline design, Process Design and Simulation Research Centre at the School of Chemical Engineering, University of Tehran, Tehran, Iran | Instructor | 2013-
2014 |

Expertise

- Offshore gas production platforms
- CFD simulation
- Thermomechanical biological tissue modeling
- Process control
- Python programming



POLYTECHNIQUE
MONTRÉAL

LE GÉNIE
EN PREMIÈRE CLASSE

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Journal Publications

- **Mohammadi, Ahad**, Javier Bonilla, Reza Zarghami, and Shahab Golshan "A Novel Heat Exchanger Design Method Using a Delayed Rejection Adaptive Metropolis Hasting Algorithm." Applied Thermal Engineering (2018).
- **Ahad mohammadi**, Reza zarghami, Dimitri Lefebvre, Shahaab Golshan" Soft Sensor Design and Fault Detection Using Bayesian Network and Probabilistic Principal Component Analysis (PPCA) "Journal of Advanced Manufacturing and Processing, John Wiley,2019

Conference Publications

- **Mohammadi, Ahad**, Farhang Jalali, Reza Zarghami, and Shahab Golshan. "A Decision Making Expert System in Fermentation Process using Bayesian Network." 13th AIChE Annual Meeting; 11/2013
- **Ahad Mohammadi**, Shahab Golshan, Reza Zarghami, Behrad Esgandari "Numerical modeling of nanofiltration process for heavy metal removal", The 12th International Conference on Membrane Science and Technology (MST2015), Tehran, Iran; 11/2015.
- Shahb Golshan ,Farhang Jalali Farahani, Reza Zarghami,**Ahad Mohammadi**, "Optimizing a Chemical Process With Bayesian Network (a new approach to optimization)", 13th AIChE Annual Meeting; 11/2013
- Aboo Mohammadi Tavakoli, **Ahad Mohammadi**, "Redevelopment of South Pipelines and Platforms Modification on existing platforms in Mumbai high field." 1st Conference on Asset Integrity Management in Oil and Gas, Tehran, 2018 (Conferences Best Paper Awards)