POLYTECHNIQUE MONTRÉAL
LE GÉNIE EN PREMIÈRE CLASSE

# Amin Solouki, PhD Student

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## Education

- **École Polytechnique of Montréal, Montréal, QC, Canada** (2018-Present)
*Ph.D. Degree, Department of Chemical Engineering*

- **Politecnico di Milano, Milan, Italy** (2017)
*M.Sc. Degree, Department of Energy Engineering*

- **Sharif University of Technology, Tehran, Iran** (2012)
*B.Sc. Degree, Department of Chemical Engineering*

## Research Interests

- Process Equipment Design, Development and Optimization
- Computational Heat Transfer & Plate Fin Heat Exchangers
- Development of Renewable Energy Resources
- Computer-aided Modeling & Scientific Calculation

## Work Experience

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| • **Process Equipment Design & Computational Mechanics (ENCP)**, Linde AG, Munich, Germany | Thesis Student | 2016-2017 |
| • **Process Equipment Design & Computational Mechanics (ENCP)**, Linde AG, Munich, Germany | Intern | 2015-2016 |
| • **Research & Development (R&D)**, **Exir Pharmaceutical Co.,** Borujerd, Iran | Intern | 2010 |

## Research Background

- Simulation module Development for Plate-Fin Heat Exchangers
- Energy analysis and economic comparison of different Low Carbon Technologies and Energy Systems
- Analysis of different types of air pollution control systems
- Heating and cooling Energy requirements evaluation for a building module
- Design of Shell & Tube Heat Exchangers
- Design of Sieve Tray Distillation Column
- Study of Biomass and renewable energy Systems

# Amin Solouki

## Teaching Experience

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|---|---|---|
| • **Introduction to Programming**, Sharif University of Technology, Tehran, Iran | Teaching Assistant | 2009-2010 |

## Conference Publications

- Woitalka, A., Thomas, I., Freko, P., Solouki, A., 'Thermo-Hydraulic Simulation of Plate Fin Heat Exchangers using OPTISIM', Proceedings of the 7th International Conference on Advanced Computational Heat Transfer (CHT-17) May, 2017