

Roshanak Rabiee Postdoc

- Montréal, Québec
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Education

- **Université de Sherbrooke, Sherbrooke, QC, Canada** (2015-2019)
Ph.D. Student, Department of Chemical Engineering
- **Amirkabir University of Technology (Tehran Polytechnic), Iran** (2009-2011)
Master of Science, Aerospace Engineering-Aerodynamics
- **Amirkabir University of Technology (Tehran Polytechnic), Iran** (2006-2009)
B.Sc. Degree, Aerospace engineering

PhD Thesis: Analysis of heat transfer of two-phase flow including boiling and condensation inside a heat pipe.

Research Interests

- Computational Fluid Dynamic (CFD)
- Two-phase flow modeling
- Heat and Mass transfer analysis
- Phase change phenomena
- Porous media modeling

Work Experience

- Process Engineering Advanced Research Lab. (PEARL), Ecole Polytechnique Montréal, Montréal, QC, Canada Postdoc researcher (2019-present)
- Iranian Research Center, Tehran, Iran Research and development expert (2014-2015)
- Research Institute of AmirKabir University of Technology, Tehran, Iran System engineering expert (2012-2014)



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Expertise

- Programming language: C++, FORTRAN
- Scientific language: TechPlot, Paraview
- Modeling and analysis package: ANSYS-Fluent, OpenFOAM,
- Basic knowledge of: SALOME, CATIA, MATLAB
- Other Software: Microsoft Office

Journal Publications

- **R. Rabiee**, M. Désilets, P. Proulx, M. Ariana, and M. Julien, “Determination of condensation heat transfer inside a horizontal smooth tube,” *Int. J. Heat Mass Transf.*, vol. 124, pp. 816–828, 2018.
- **R. Rabiee**, M. Désilets, P. Proulx, “Heat Transfer Analysis of Boiling and Condensation Inside a Horizontal Heat Pipe” *Int. J. Heat Mass Transf.*, *International Journal of Heat and Mass Transfer*, Volume 139, August 2019, Pages 526-536
- **R. Rabiee**, M. Monzavi, A. Shams, Sh. Golshan, R. Jafari, J. Shahabian, B. Blais, J. Chaouki, “Two- Phase Flow Characterization of a Rotating Packed Bed through CFD Simulation in OpenFOAM”, *International Journal of Chemical Engineering Science*, 2020, In progress
- Sh. Golshan, A. Shams, **R. Rabiee**, R. Jafari, B. Blais, J. Chaouki, “On the VOF Simulation Details and Droplet Size Distribution Inside Rotating Packed Beds”, *International Journal of Chemical Engineering Science*, 2020, In progress