

Education

- **Polytechnique Montreal, Qc, Canada** (2014-2018)
Ph.D. Degree, Department of Chemical Engineering
Thesis: "Impact of Granular Segregation on Heat Transfer in Rotary Kilns"
- **Polytechnique Montreal, Qc, Canada** (2010-2014)
B.Sc. Degree, Department of Chemical Engineering

Research Interests

- Chemical Engineering
- Heat transfer
- Environment
- Rotary Kilns
- Experimental Characterization
- Modelisation and simulation
- Discrete element method
- Image Analysis
- Granular Matter

Work Experience

- **Air Liquide Canada,** Engineer Intern Summers of 2012 and 2013
Montreal, Qc, Canada
- **Eureka! Festival,** Project Leader Summers of 2011 and 2012
Polytechnique Montreal, Qc, Canada

Research Background

- Valorisation of oil extracted from co-pyrolysis of paper and PEHD
 - Final Bachelor project – Pr. Jamal Chaouki
- Mechanical and thermal characterization of blends of biodegradable polymers
 - Research assistant – Pr. Basil Favis

Teaching Experience

- **Energy and Residual Materials,** Teaching Assistant 2015
Polytechnique Montreal, Qc, Canada
- **Process Analysis,** Teaching Assistant 2012, 2013, 2014
Polytechnique Montreal, Qc, Canada
- **Project of Numerical Modelling,** Teaching Assistant 2014, 2015, 2016
Polytechnique Montreal, Qc, Canada

Journal Publication

S. Ravati, C. Beaulieu, A. M. Zolali, B. Favis, (2014) *High Performance Materials Based on a Self-Assembled Multiple-Percolated Ternary Blend*. AICHE Journal. 60, Issue 8: 3005-3012 (stage en recherche)

Conference Publications

Particles 2015, Barcelone

C. Beaulieu, F. Bonniol, J. Chaouki, F. Bertrand, (2015) *Use of Collision and Flow Properties of Particles Falling From a Hopper to Estimate the Damping Coefficient in the DEM*

Annual Technical Conference, 2012

S. Ravati, C. Beaulieu, A. M. Zolali, B. Favis, *High Performance Materials Based on a Self-Assembled Multiple-Percolated Ternary Blend*