



Education

- **Polytechnique Montréal, Montréal, QC, Canada** (2019)
Ph.D. Candidate, Department of Chemical Engineering
Thesis: “Mechanisms and kinetics of high temperature reduction of phosphate ore”

- **Ecole Nationale des Sciences Appliquées, Agadir, Morocco** (2017)
Engineer degree in Process, Energy and Environmental Engineering
Thesis: “Development of a cell for production of hydrogen from electrolysis of water”

Research Interests

- Pyrometallurgy
- Unit operations
- Chemical reactor engineering
- Air quality
- Environmental Impact Assessment
- Transport phenomena: momentum, heat and mass transfer
- Turbulence
- Hydraulic
- Renewable energy (photovoltaic, wind)
- CFD simulation with Fluent

Work Experience

- | | | |
|---|-----------------------|-----------|
| • Process engineering research lab (PERL),
Polytechnique Montréal, Montréal, QC, Canada | Research
Assistant | 2019 |
| • Azad Environnement, Rabat, Morocco | Engineer | 2018-2019 |
| • Andsun, Agadir, Morocco | Trainee | 2017 |
| • CETENER, Agadir, Morocco | Trainee | 2016 |
| • COCACOLA, Fez, Morocco | Trainee | 2015 |
| • Office national des hydrocarbures et des mines,
Rabat, Morocco | Trainee | 2014 |
| • COCACOLA, Fez, Morocco | Trainee | 2013 |

Research Background

- Phase change materials and thermal energy storage for buildings
- Thermal decomposition of phosphate ore
- Structure and properties of silicate melts
- Kinetics modeling of solid-state reactions
- Solids characterization techniques (SEM, XRD, ICP, NAA) and conducting high temperature tests with TGA and electric furnace