# Ghazaleh, Mirakhori

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## EDUCATION

**May 2019-Current**   **Polytechnique Montréal**
PhD student, Chemical Engineering
Total GPA: 4/4

**Sep 2015–Jun 2018**   **University of Tehran**
M.Sc., Process Engineering
Master project: Synthesis of carbon quantum dots and preparation of $CQD/TiO_2$ composite for VOC removal from airflow with Dr. Sh. Fatemi
Total GPA: 16/20 (3.42/4)

**Sep 2011–Sep 2015**   **University of Tehran**
B.Sc., Chemical Engineering
Bachelor project: Simulation of atmospheric and vacuum distillation crude oil tower of Tehran Oil Refinery with Dr. N. Tahouni
Total GPA: 15.80/20 (3.23/4)

## PROFESSIONAL EXPERIENCE

**Apr 2018-Apr 2019**   **Nilab Company**
Project control engineer (full time)
Operation, maintenance and commissioning of Tehran, Bilaghan, Bandar Abbas, Rasht and Zahedan water treatment unit projects

**Dec 2016-Feb 2018**   **Samandis EPC Company**
Process engineer (part time)
Increasing the Capacity of a Wastewater Treatment Plant in Tehran Oil Refinery
Tasks include: Processing the following technical documents:
- Process calculation
- Hydraulic profile
- Line sizing calculation
- Control philosophy of Wastewater Treatment Plant

## TEACHING EXPERIENCE

Teaching Assistant
- Process Simulation, Using HYSYS Software, Scientific Association of Chemical Engineering at University of Tehran, September 2015

## PUBLICATIONS

**Journal Article:**

- Blais, B., Barbeau, L., Bibeau, V., Gauvin, S., El Geitani, T., Golshan, S., Kamble, R., **Mirakhori, G**. and Chaouki, J., 2020. Lethe: An open-source parallel high-order adaptive CFD solver for incompressible flows. SoftwareX, 12, p.100579.

**Conference Paper:**

- Mozdbar, Afsaneh; Nouralishahi, Amideddin; Fatemi, Shohreh; **Mirakhori, Ghazaleh** "Photocatalytic Degradation of Methylene Blue by $CQDs/TiO_2$ Composite Synthesized via the Sol-gel Method", International Chemical Engineering Congress & Exhibition, Isfahan, Iran (May 2018)

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## HONORS AND AWARDS

- Yoga Mala Foundation "Teacher Training" scholarship, June 2020
- RBC royal bank scholarship, Polytechnique annual internal scholarship competition, March 2020
- Ranked 39th in "Master's degree Entrance Exam" among more than 2000 participants, August 2015
- Ranked 314th (top 0.2%) in "National University Entrance Exam" among more than 350,000 participants and awarded full scholarship, undergraduate program, University of Tehran, Dep. of Chemical Engineering, August 2011.

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## LANGUAGE SKILLS

- Persian: Native
- English: Professional working fluency
- French (Beginner)

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## COMPUTER SKILLS

- Engineering software: Aspen (advanced), HYSYS (advanced), COMSOL (intermediate)
- Programming languages: Python (intermediate), C++ (Beginner)
- Applied software: Microsoft Office, ICDL

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## VOLUNTARY ACTIVITIES

- Volunteering at Naada Yoga studio
- Dentistry assistance at kahrizak charity foundation (Iran, Tehran)
- Participant and activist of international Lucky Fin Project (One of international groups for handicapped people)