

## Curriculum Vitae

# HANIEH GERANI

## EDUCATION

### PhD Candidate

**01/2024- present**, Wageningen University and Wetsus, Netherlands.

### Internship/Master Thesis

**03/2023-08/2023**, Wageningen Food & Biobased Research, Netherlands.

**Thesis:** Electrochemical Production of  $H_2O_2$  with membrane and electrodes.

Erasmus (Exchange Student Program)-**6 months**.

Advisor: Norbert Kuipers

### MSc Environmental Sciences, 6 months

**09/2022-02/2023**, Wageningen University & Research, Netherlands.

Erasmus (Exchange Student Program)

### MSc Environmental Engineering

**09/2020- 10/2023**, University of Padua (Università Degli Studi Di Padova), Italy.

**Relevant courses:** Water and wastewater treatment, Renewable energy techniques, Circular and sustainable waste management, Air pollution control.

### MSc Chemical Engineering

**09/2013-02/2016**, Chemistry & Chemical Engineering Research Center, Iran.

**Thesis:** "Synthesis of PES-based cation exchange membrane and enhancement of their properties by adding functionalized graphene oxide Nano sheets".

GPA: 18.27 out of 20

Advisor: Dr. Hamid Reza Mortaheb

### BSc Chemical Engineering

**09/2009- 09/2013**, Shahid Bahonar University, Kerman, Iran.

**Project:** "Study of crude oil combustion for heat extraction".

Advisor: Dr. Amir Sarafi

## ACADEMIC SKILLS

- Experienced in characterization techniques such as GC, HPLC, SEM, AFM, NMR, TGA, and TGA.
- Separation methods through membrane and study of ion exchange membranes.
- Study on the natural gas exchange process to liquid hydrocarbons and crude oil.
- Two years' laboratory experience.



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## PROFESSIONAL INTERESTS

- Water and Wastewater Treatment
- Membrane Separation Processes
- Electrochemical Processes

## SKILLS

- Strong Organizational Skills
- Research and Analytical Skills
- Deadline Management
- Microsoft Office

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## ACHIEVEMENTS, PROFESSIONAL EXPERIENCE

### Publication:

- **H. Gerani**, Hamid Reza Mortaheb, Babak Mokhtarani., " Enhancement in Performance of Sulfonated PES Cation Exchange Membrane by Introducing Pristine and Sulfonated Graphene Oxide Nanosheets Synthesized through Hummers and Staudenmaier Methods ", Journal of Polymer-Plastics Technology and Engineering., Published online: 20 Oct2016.

### Conference:

- **H. Gerani**, Hamid Reza Mortaheb, Babak Mokhtarani, "Enhancement in performance of sulfonated polyether sulfone cation exchange membrane by functionalized graphene oxide Nano sheets (Poster Presentation)"and "Preparation and characterization of sulfonated polyether sulfone composite ion-exchange membranes filled by graphene oxide Nano sheets (Oral Presentation)", 12<sup>th</sup> International Conference on Membrane science & technology, University ofTehran, Nov.1-3 2015, Tehran, Iran.

## ONLINE COURSES

- Graphene Science and Technology, learn about the revolutionary 2-D material – graphene – its practical and electronic applications, and how it offers new insights into quantum physics. (<https://courses.edx.org>)
- Principles of Electronic Biosensors, an in-depth analysis of the origin of extraordinary sensitivity, fundamental limits, and operating principles of modern biosensors. (<https://courses.edx.org>)

## REFERENCES

### **Dr. Norbert J.M. Kuipers,**

MSc Senior Scientist Separation & Purification, Wageningen Food & Biobased Research.

Email: [norbert.kuipers@wur.nl](mailto:norbert.kuipers@wur.nl)

### **Dr. Hamid Reza Mortaheb,**

Prof. in Chemical Engineering Department of Chemistry & Chemical Engineering Research

Center of Iran.

Email: [mortaheb@ccerci.ac.ir](mailto:mortaheb@ccerci.ac.ir)

### **Dr. Maria Cristina Lavagnolo,**

Prof. in Circular and Sustainable Waste Management, Environmental Engineering Department of Padova University.

Email: [mariacristina.lavagnolo@unipd.it](mailto:mariacristina.lavagnolo@unipd.it)

## LANGUAGES

### Persian



Native

### English



Upper intermediate (B2)

### Italian



Beginner (A1)

## WORK EXPERIENCE

Pirsook Immigration Group -  
Employee, Shiraz, Iran  
Dec.2018 – Nov.2020

Royan Company (Dental Group) -  
Technical and Health Expert, Shiraz,  
Iran  
Oct. 2016 – Nov. 2017