

Reyhane Ghorbani Nia

CONTACT INFORMATION

Department of Chemical Engineering,
University of Tehran
Personal Website, GitHub, LinkedIn

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EDUCATION

University of Tehran (UT), Tehran, Iran 09/2018 - 06/2022 (expected)

B.S. in Chemical Engineering (In progress)
GPA (up to now): 16.61/20, The last three semesters: **17.72/20 (3.8/4)**
Advisor: Dr. Abbas Ali Khodadadi

Shahid Iranmanesh High School, Kerman, Iran 2014 - 2018

High School Diploma in Mathematics and Physics
GPA: 19.90/20 (4.0/4.0)

RESEARCH INTERESTS

- Bio Sensors
- Drug Delivery (Usage of Liposome)
- Nanoparticles
- Protein Engineering
- Electrochemistry
- Catalysis
- Biotechnology
- Advanced Sensors Usage for Detecting Cancers
- Machine Learning

RELEVANT COURSES

- Engineering Mathematics (19.25/20)
- Application of Mathematics in Chemical Engineering (19.25/20)
- Physical Chemistry (19/20)
- Calculus II (17/20)
- Kinetic and Reactor Design (18.5/20)
- Fluid Mechanics (18.5/20)
- Heat Transfer (17.5/20)
- Fundamentals of Genetic Engineering (18.38/20)
- Differential Equations (20/20)
- Computer Programming (19/20)
- General Microbiology (19/20)
- Transmission and Distribution of Natural Gas (18.75/20)
- Unit-Operation (in progress)
- Process Control (in progress)
- Refining Processes (in progress)
- Biochemistry Engineering (in progress)

HONORS AND AWARDS

- Ranked 504th among more than 150,000 participants in the national university entrance exam, 2018
- M.Sc. Admission from Department of Chemical Engineering, University of Tehran. Exempted from M.Sc. university entrance exam as an exceptional talent student, 2021
- Ranked 14th among 78 students of Chemical Engineering, University of Tehran (up to now)

RESEARCH EXPERIENCE

- **B.S. Thesis Project, Adsorption Processes Laboratory** September 2021 - Present
University of Tehran, Tehran, Iran
Encapsulating milk-derived Micro-RNAs in lipid nanoparticles (Tentative)
- **Research Assistant, Adsorption Processes Laboratory** Summer 2021
University of Tehran, Tehran, Iran
Mentor - [Dr. Abbas Ali Khodadadi](#)
Applications of Indirect Biosensors in the Detection of Lung Cancer Using Respiratory Exhaust Gases.

WORK EXPERIENCE

- **Internship Project: Iranian National Algae Culture Collection** Summer 2021
University of Tehran, Iran
Mentor - [Dr. Omid Tavakoli](#)
Micro-Algae biosensors

TECHNICAL SKILLS

- *Programming Languages:* MATLAB, Python, C/C++
- *Simulation and Design Tools:* Hysis Aspen, Simulink
- *Technical Tools:* LATEX, Microsoft Office

TEACHING ASSISTANT EXPERIENCE

Physical Chemistry, Spring 2021 - Fall 2021
Differential Equations, Fall 2019
Applications of Mathematics in Chemistry, Fall 2019

LANGUAGE SKILLS

- Persian (Farsi): Native
- English:
 - TOEFL: Reading: 24, Writing: 22, Speaking: 21, Listening: 20, Total: 87 (Tentative)

ACADEMIC AND PROFESSIONAL REFERENCES

- [Dr. Abbas Ali Khodadadi](#), E-mail: khodadad@ut.ac.ir
Professor, School of Chemical Engineering, University of Tehran.
- [Dr. Omid Tavakoli](#), E-mail: otavakoli@ut.ac.ir
Assistant Professor, School of Chemical Engineering, University of Tehran.
- [Dr. Reza Zarghami](#), E-mail: rzarghami@ut.ac.ir
Professor, School of Chemical Engineering, University of Tehran.
- [Dr. Mojtaba Shariaty Niassar](#), E-mail: mshariat@ut.ac.ir
Professor, School of Chemical Engineering, University of Tehran.