

CONTACT INFORMATION

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

Phone: +98-9211386714
✉ E-mail: reyhane.ghorbani99@gmail.com

EDUCATION

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

B.Sc. in Chemical Engineering (In progress)
GPA (up to now): 16.61/20, The last three semesters: **17.72/20 (3.78/4)**
Advisor: Prof. Abbas Ali Khodadadi

Shahid Iranmanesh High School, Kerman, Iran 2014 - 2018

High School Diploma in Mathematics and Physics
GPA: 19.82/20 (4.0/4.0)

RESEARCH INTERESTS

- Drug Delivery
- Machine Learning
- Biosensors
- Protein Engineering
- Biotechnology
- Nanotechnology
- Catalysis

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 (17/20)
- 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 among **top 10%** of all students at the Department of Chemical Engineering, University of Tehran (up to now)
-M.Sc. Admission from Department of Chemical Engineering, University of Tehran. Exempted from M.Sc. university entrance exam as an exceptional talent student, 2021
-Chemical Engineering Community best member award, 2019
-Certificated for attending "The Second National Conference on Water Consumption Management (Loss Reduction and Reuse Approach)", 2019
-Chemical Engineering Scientific Society Journal best member award, 2018-2019
-Ranked 504th among more than 150,000 participants in the national university entrance exam, 2018

RESEARCH EXPERIENCE

- B.S. Thesis Project**
Catalysis & Nanostructured Materials Research Lab September 2021 - Present
University of Tehran, Tehran, Iran
Mentor : Prof. Abbas Ali Khodadadi
Encapsulating milk-derived Micro-RNAs in lipid nanoparticles.
- Research Assistant**
Catalysis & Nanostructured Materials Research Lab Summer 2021
University of Tehran, Tehran, Iran
Mentor : Prof. 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 : Prof. Omid Tavakoli
Micro Algae Bio-sensors as pH indicators in the food industry and environmental pollution
- Editor of Chemical Engineering Scientific Society Journal** 2018-2019
University of Tehran, Iran

ANALYTICAL & COMPUTER SKILLS

- Programming Languages:* MATLAB, Python, C/C++
- Simulation and Design Tools:* Hysis Aspen, Simulink
- Laboratory Equipments:* UV-Vis, SEM, TEM, AFM, XRD
- Technical Tools:* LATEX, Microsoft Office, AutoCAD

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 Best Scores: Reading: 24, Writing: 24, Speaking: 26, Listening: 21, **Total: 95**

ACADEMIC AND PROFESSIONAL REFERENCES

- Prof. Abbas Ali Khodadadi, E-mail: khodadad@ut.ac.ir
Professor, School of Chemical Engineering, University of Tehran.
- Prof. Omid Tavakoli, E-mail: otavakoli@ut.ac.ir
Assistant Professor, School of Chemical Engineering, University of Tehran.
- Prof. Mojtaba Shariaty Niassar, E-mail: mshariat@ut.ac.ir
Professor, School of Chemical Engineering, University of Tehran.