



Armin Jarahi Khameneh

CONTACT INFORMATION



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Tehran | Iran

RESEARCH INTERESTS

- Tissue Engineering
- Drug Delivery Systems
- Regenerative Medicine
- Biomedicine
- Biomedical Engineering
- Molecular Dynamic

CORE SKILLS

Professional:

- Communicate
- Reason and Problem Solve
- Use Math and Science
- Manage Oneself, People, Time, and Things
- Perceive and Visualize

Computer:

- GROMACS
- MATLAB
- ICDL

EDUCATIONAL BACKGROUNDS

M.Sc. in Medical Engineering; Biomechanics

University of Tehran

Oct 2020 - Sep 2022

Thesis Title: Investigation of the Temperature effect on the properties of Biological Nanomembranes with Different Concentrations of Cholesterol Using Molecular Dynamics Simulation. (Under Supervision of Dr. Abbas Rastgoo)

GPA: 3.52 / 4

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B.Sc. in Medical Engineering; Biomechanics

Islamic Azad University Science & Research Branch

Sep 2013 - Jun 2017

GPA: 3.54 / 4

Tehran | Iran

PUBLICATIONS

- Azami, Amirhossein, Ashkan Heydarian, **Armin Jarrahi Khameneh**, Siamak Khorramymehr, and Behnoosh Vasaghi_Charamaleki. "The effect of short-range radiation of type C and B ultraviolet on the mechanical properties of skin fibroblasts." Journal of Computational Applied Mechanics 50, no. 2 (2019): 366-374. doi: [10.22059/JCAMECH.2019.270110.345](https://doi.org/10.22059/JCAMECH.2019.270110.345). (Published Paper)
- **Armin Jarahi Khameneh**, Abbas Rastgoo, Azadeh Kordzadeh, Amin Hadi. "Investigation of the Temperature effect on the properties of biological Nanomembranes with Different Concentrations of Cholesterol Using Molecular Dynamics Simulation." The European Physical Journal Plus (EPJP) Journal. (Submitted Paper)
- **Armin Jarahi Khameneh**, Sarvin Rahimi, Mohammed H.Abbas, Ashkan Heydarian, Abbas Rastgoo, Amin Hadi. "Trends in Electrochemical Biosensors for the Early Diagnosis of Breast Cancer through the Detection of Relevant Biomarkers." Trends in Analytical Chemistry (TrAC) Journal. (Submitted Paper)
- **Armin Jarahi Khameneh**, Ashkan Heydarian, Nasibeh Babaei, Negin Hannani, Dornaz Milani, and Hossein Sahbafar. "Effects of vitamin E and D on elastic properties of MCF-7." Anticancer Research Journal. (Submitted Paper)
- Hossein Sahbafar, **Armin Jarahi Khameneh**, Zahra Farahani, Erfan Pourhashemi, and Melika Amini. "In-vivo Investigation of 3D-Printed/Electrospun Scaffolds Loaded With Wound Healing Drugs for Rat Skin Repair." (Under Preparation Paper)

ACADEMIC BACKGROUNDS

- Teacher Assistant in "Differential Equations" Course, Islamic Azad University Science & Research Branch
- Teacher Assistant in "Ergonomics" Course, Islamic Azad University Science & Research Branch
- Teacher Assistant in "Biomechanics" Course, Islamic Azad University Science & Research Branch

SOFT SKILLS

- Effective Communication
- Teamwork and Collaboration
- Thinking Out of Box
- Problem-Solving
- Sense of Responsibility
- High-Motivated
- Flexible
- Desire to Learn

LANGUAGES

- **Persian** (Native)
- **English** TOEFL Overall Score 96 (R: 27, L: 29, W: 20, S: 20)

REFERENCES

- **Abbas Rastgoo** (Professor)
Mechanical Engineering Department
University of Tehran
Email: arastgo@ut.ac.ir
- **Amin Hadi** (Assistant Professor)
Medical Sciences Department
Yasuj University
Email: samin.hadi@gmail.com

PROFESSIONAL EXPERIENCES

Instructor

Amouzegar Academy

Nov 2020 - Present

- Teacher of English conversation and personal creativity development

Tehran | Iran

Investment Analysis

Arzesh Afarinan -e Idea Payedar Co.

Aug 2020 - Aug 2022

- Investigating economic and knowledge-based projects in the field of medical, paramedical, and medical equipment industry
- Responsible for the company's relationship with universities and other companies

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English Teacher

Allameh Sheerani High School

Jun 2019 - Sep 2020

Tehran | Iran

Instructor

Islamic Azad University Science & Research Branch

Aug 2016

- Conducting workshops in "ABAQUS" and "Mimics" software

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HONORS & AWARDS

- 26th Ranked in Nationwide University Entrance Exam for Master's Level Among Approximately 20,000 Participants. (2019)

COURSES & CERTIFICATES

- Technical officer of medical equipment manufacturers and importers, Iranian Medical Device Society (IMEDS). (Mar 2022)
- Fundamentals of Cell Culture, Iranian Biological Resource Center, (May 2017)
- ABAQUS, Amirkabir University of Technology, (Aug 2016)
- Mimics, Amirkabir University of Technology, (Aug 2016)
- English language diploma (Advanced Level 3) from Iranian language center. (Jun 2018)

SELECTED COURSES

- Drug Delivery Systems (4 Out of 4)
- Tissue Engineering (4 Out of 4)