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Education

Degree	University	Discipline	Year
Ph.D. Degree	Science and Research Branch (IAU)	Bioengineering / Biomechanics	2013-2019
Master Degree	Science and Research Branch (IAU)	Bioengineering / Biomechanics	2011-2013
Bachelor Degree	Science and Research Branch (IAU)	Bioengineering / Biomechanics	2007-2011

Work Experience

- Instructor and Researcher** 2015 - Present
Science and Research (IAU)
Biomechanics Department
- Co-Owner** 2021 - Present
Treata Tajhiz Fanavaran Pars
Medical Devices Manufacture Company
- Co-Owner** 2016 - Present
Fanavaran Treata Gostar
Medical Devices Import/Export Company
- Co-Owner** 2008 - Present
Matin Kar Zayanderoud
International Exhibition Host Company
- R&D Manager** 2013 - 2015
Nick Kasht Asia
Dental Implants Manufacture Company
- Business Manager** 2008 - 2013
Setareh Kimia
Medical Devices PM and Quality Control
- Business Manager** 2006 - 2012
Jonoub Abr
PU Foam and Mattress Manufacture Company

Certifications

Marketing Strategic Management , TÜV Rheinland

Industrial Calibration Methods , National Industrial Management

Sport Spirometry System, COSMED Italy

17025 Standard Management, IMQ Italy

Medical Device Quality Control, Academic Center for Education, Culture and Research (ACECR)

Software and Skills

Solid Works

ANSYS

Python

Mathematica

Mimics

FEBio

Mendeley

Publications

ISI Publication

“Experimental and numerical responses of fibroblast and epithelial cells to the frequency of electric toothbrush,” A. Heydarian, P. Darvishi, H. Mortazavi, and H. Mortazavy Beni, *J Mech Behav Biomed Mater*, vol. 140, 2023, doi: 10.1016/j.jmbbm.2023.105697.

“Short-term effects of X-ray on viscoelastic properties of epithelial cells,” A. Heydarian, S. Khorramymehr, and B. Vasaghi-Gharamaleki, *Proc Inst Mech Eng H*, vol. 233, no. 5, 2019, doi: 10.1177/0954411919837563.

“Effects of X-ray on fibroblast mechanical properties,” A. Heydarian, S. Khorramymehr, and B. Vasaghi-Gharamaleki, *Journal of Theoretical and Applied Mechanics (Poland)*, vol. 57, no. 4, 2019, doi: 10.15632/jtam-pl/112456.

“An investigation of the viscoelastic behavior of MCF-10A and MCF-7 cells,” A. Heydarian, D. Milani, and S. M. Moein Fatemi, *Biochem Biophys Res Commun*, vol. 529, no. 2, 2020, doi: 10.1016/j.bbrc.2020.06.010.

“The Effect of Short-Range Radiation of Type C and B Ultraviolet on the Mechanical Properties of Skin Fibroblasts,” Amirhossein Azami, Ashkan Heydarian, Armin Jarrahi Khameneh, Siamak Khorramymehr, and Behnoosh Vasaghi_Gharamaleki, *Journal of Computational Applied Mechanics*, vol. 50, no. 2, pp. 366–374, 2019.

Conference Paper

- A Model Of Aqueous Flow In The Posterior And Anterior Chamber Of The Human Eye (Electrical): “AAPOS & SNEC Joint Meeting - Singapore 2013”
- Effect of muscle fatigue during gait on kinematic of ankle joint, The second Iranian rehabilitation engineering: 1- Ashkan Heydarian 2- Sanaz mirzahosseini 3- Siyamak Khorramimehr (7-8 June 2012)
- Robotic Radio Surgery lecture at The first International Workshop of Climbing and Walking robots and Assistive Technology (CLAWAR december 11&12 , 2011) as speaker
- Spine Decompression Therapy lecture at The 11th.Seminar in Specific Spinal Physical Therapy (28-29 December 2010) as speaker

Projects and Under Review Manuscripts

- Effects of Vitamin E and D on the Stiffness of MCF-7 (under review in BioNanoScience)
- Investigation of Effect of High-heeled Shoes on Mediolateral Stability by Non-linear Dynamical System Modeling During the Gait. (under review in The foot journal)
- Trends in Electrochemical Biosensors for the Early Diagnosis of Breast Cancer through the Detection of Relevant Biomarkers (under review in Biochip journal)
- Is it curbing-spread of SARS-CoV-2 variants by considering non-linear predictive control? (under review in Mathematical Methods in the Applied Sciences journal)

Teaching Skills

Biomechanis lab , Motion Analysis Lab, Ergonomics and Human Factor, Bone Biomechanis and Fracture, Introduction to Biomechanics (I and II), Introduction to rehabilitation Engineering , Kinesiology, Introduction to Radiology Devices, Industrial drawing and design, Statics (Science and Research branch of IAU since 2016)

Interests

- Tissue mechanics
- Cell mechanics



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