



Seyed Alireza Khanghahi, MSc

About Me

I'm a bioinformatics researcher with a passion for leveraging artificial intelligence and machine learning to solve complex biological problems. My work focuses on drug discovery, computational genomics, and neuroscience. With a Master's in Bioinformatics and a background in Computer Science, I bring a unique blend of computational expertise and biological understanding to my research. As a co-founder of Gene-ius Coders and an active participant in academic pursuits, I'm committed to advancing the field of bioinformatics and fostering collaboration within the scientific community.

Contact



Born on 12/01/1998, Tehran, Iran.
Age 27



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[sevedalireza-khanghahi](https://www.linkedin.com/in/sevedalireza-khanghahi)



[AlirezaKhanghahi](https://github.com/AlirezaKhanghahi)

Language



Farsi - Native Language



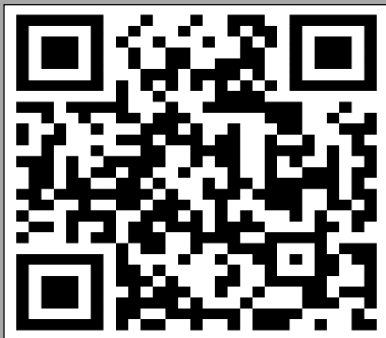
English - Professional Knowledge
TOEFL Score: 100/120



German - Basic Knowledge



Japanese - Basic Knowledge



SCAN ME!



EDUCATION

2021 - 2024



M.Sc of Bioinformatics

Tarbiat Modares University
Department of Biological Sciences, Tehran, Iran

Thesis: Artificial intelligence-based drug screening to inhibit beta amyloid aggregation for Alzheimer's disease treatment.

GPA: 18.78/20 (4.0/4.0) (overall)

2016 - 2020



B.Sc of Computer Science

Shahed University
Department of Computer Sciences, Tehran, Iran

Thesis: Applications of IOT in monitoring healthcare for detecting cardiac arrest.

GPA: 17.16/20 (3.6/4.0) (last 58 credits)

GPA: 15.67/20 (3.0/4.0) (overall)



WORK EXPERIENCE

2022-Today

Research Assistance

Tarbiat Modares University
Research Assistance in I Prof. Parviz Abdolmaleki's lab.

2022-2023

Teaching Assistance

Tarbiat Modares University
Teaching Assistance of Basic Mathematics, Introduction to Machine Learning and Artificial Neural Networks courses.

2021-Today

Co-founder

[Gene-ius Coders](https://www.gene-ius.com)
Scientific research group developing innovative solutions at the intersection of biology, medicine, and information technology.

2017-2021

Tutor

Freelance
Tutor of Algebra, Calculus and English language.

2016-Today

Academic Adviser

Freelance
Providing guidance, support, and resources to help students achieving their academic and career goals.


Soft Skills and Strengths


Creativity, Curiosity, Flexibility, Self Confidence, Ability to Plan and Organize, Autonomy, Adaptability, Eye for Details, Problem Solving, Team Working, Love Learning New Things, Leadership, Good Communication, Managing Information, Diplomacy Good Listener, Out of The Box thinker


Professional Skills


- Data Mining and Machine Learning
- Artificial Neural Networks and Deep Learning
- Computational Drug Design and QSAR
- Computational Genomics and Gene Expression
- Game Design


Other Interests


 Video Game

 Music

 Wrestling

 Gym

 Movies

 Books

References

Prof. Parviz Abdolmaleki
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Prof. Abdollah Allahverdi
E-mail: a-allahverdi@modares.ac.ir

Prof. Seyed Shahriar Arab
E-mail: sh.arab@modares.ac.ir

Prof. Mozghan Alipour
E-mail: m.alipour2915@gmail.com

Prof. Hamid Haj Seyyed Javadi
E-mail: h.s.javadi@shahed.ac.ir



PUBLICATIONS

Journal Article 2024	TMEM176A Gene as a Potential Prognostic Marker: Machine Learning Insights into Longevity in Glioblastoma <i>Cancer Medicine (Submitted)</i>
Journal Article 2022	Application of Artificial Intelligence in Image Processing of Neurodegenerative Disorders: A Review Study <i>Interventional Pain Medicine and Neuromodulation (Published)</i>
Conference 2024	Addressing Left Censoring in Cancer Genomics: A Semi-Supervised Learning Approach <i>Poster presentation at CGC2024</i>
Conference 2024	Comparing a Classical and a Descriptor-Free Deep Learning Method for Enhanced QSAR Predictions of mTOR Inhibitors <i>Poster presentation at IBC11</i>
Conference 2024	Machine Learning Classification of Lung Adenocarcinoma Recurrence and Progression: Unveiling 12 Novel lncRNA Markers <i>Oral presentation at IBC11</i>
Conference 2024	The application of machine learning techniques for the classification of Mesial Temporal Lobe Epilepsy using perfusion and morphometry measurements <i>Poster presentation at ISMRM2024</i>
Conference 2024	Exploring Traditional Machine Learning and Deep Learning for Predicting Intracytoplasmic Sperm Injection (ICSI) Success Rates <i>Oral presentation at ICB12</i>
Conference 2023	Drug screening to inhibit serine/threonine protein kinase mTOR using LSTM: A descriptor free QSAR approach <i>Poster presentation at CGC2023</i>



INFORMATION TECHNOLOGY SKILLS

Programming Languages	Python: Advance CSharp: Intermediate Matlab: Intermediate R: Beginner C++: Beginner
Tools/Packages	PyTorch, TensorFlow, Scikit-Learn, Numpy, Pandas, Matplotlib, VarScan, BWA, fastQC, MODELER, Gromacs, AutoDock and AutoDock vina, LigPlot+, IGV, BedTools, Triptomatic, Hyper Chem, Dragon, AlvaDesc, BioConductor, Django, Unity, Godot.
Operating systems	Windows Linux