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

seyedalirezakhanghahi@gmail.com

+98 9900569980

seyedalireza-khanghahi

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
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.

Seyed Alireza **Khanghahi**, MSc

Curriculum Vitae

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
***E-mail**: parviz@modares.ac.ir*

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

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

Prof. Mozhgan 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
Cancer Medicine (Submitted)

Journal Article 2022
Application of Artificial Intelligence in Image Processing of Neurodegenerative Disorders: A Review Study
Interventional Pain Medicine and Neuromodulation (Published)

Conference 2024
Addressing Left Censoring in Cancer Genomics: A Semi-Supervised Learning Approach
Poster presentation at CGC2024

Conference 2024
Comparing a Classical and a Descriptor-Free Deep Learning Method for Enhanced QSAR Predictions of mTOR Inhibitors
Poster presentation at IBC11

Conference 2024
Machine Learning Classification of Lung Adenocarcinoma Recurrence and Progression: Unveiling 12 Novel lncRNA Markers
Oral presentation at IBC11

Conference 2024
The application of machine learning techniques for the classification of Mesial Temporal Lobe Epilepsy using perfusion and morphometry measurements
Poster presentation at ISMRM2024

Conference 2024
Exploring Traditional Machine Learning and Deep Learning for Predicting Intracytoplasmic Sperm Injection (ICSI) Success Rates
Oral presentation at ICB12

Conference 2023
Drug screening to inhibit serine/threonine protein kinase mTOR using LSTM: A descriptor free QSAR approach
Poster presentation at CGC2023

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