

Mohammad Asadolahi

No.14, farzaneh Ave, punak Ave, Tehran, Iran

Tel (Mob): (+98) 991 654 84 03

Email: Mohammad.E.Asadolahi@gmail.com

GitHub: [Github.com/mohammadAsadolahi](https://github.com/mohammadAsadolahi)

EDUCATION

M.Sc., Computer Engineering - Artificial Intelligence and Robotics, 2023 (GPA: 18.83/ 20, Top Student)

Azad University – Science and Research Branch (SRBIAU), Tehran, Iran

Concentrations: Deep Learning, Deep Reinforcement Learning, Meta RL

Thesis: Stochastic Algorithm for High Precision Required Reinforcement Learning Problems

Thesis Supervisor: [Arash Sharifi, Ph.D.](#)

Thesis Advisors: [Touraj BaniRostam, Ph.D.](#)

B.Sc., Computer Engineering – Software Technology, 2017

Shamsipour Technical and Vocational College, Tehran, Iran

Concentration: Computer Vision, Artificial Intelligence

A.Sc., Computer Engineering – Software Technology, 2014 (Top Student of The Year Award)

Tehran Technical and Vocational College No. 1, Tehran, Iran

Concentration: Software Programming, Computational Problem Solving, Computer knowledge

IELTS Academic Score: *Overall 7*

WORK EXPERIENCE

C++ developer in a computer vision startup Behpoyesh, Tehran, Iran

2016 - 6 months

PROGRAMMING SKILLS

- **Machine Learning Libraries:** Expert in PyTorch and TensorFlow (designing & HP tuning of complex deep learning models, custom loss functions, custom layers), Keras, NumPY, Scikit-learn, Matplotlib
- **Programming Languages:** Python, and C++(2003 & 2011)

PUBLICATIONS

Mohammad Asadolahi, Arash Sharifi, Touraj Baniroostam. (2022). Toward off-policy Stochastic Actor-Critic. *IEEE Transactions on Neural Networks and Learning Systems*, (awaiting thesis defense to submit). *Based on my Master's Thesis.*

Contribution: I found the research gap, wrote the proposed algorithm, and accomplished all the findings. Dr. Sharifi was my supervisor and Dr. Baniroostam was my Advisor.

Mohammad Asadolahi. (2023). HomoSapiens optimization, optimization algorithm based on homo sapiens colonization. *Not published yet, developing to enhance exploration and exploitation balance, looking for contributors to accomplish the manuscript.*

Contribution: I deployed the idea of homo sapiens colonization along with the attention mechanism, the proposed algorithm is suggesting promising results and it needs to be tuned and publish the manuscript with some colleagues.

RESEARCH INTERESTS

- Deep Learning
- Deep Reinforcement Learning
- Meta Learning
- Metaheuristics

TEACHING EXPERIENCE

- **Azad University-Central Tehran Branch, (IAU-CTB) [2022-2023]**
Courses: Cognitive Science, fall 2022 as TA
- **Azad University-Central Tehran Branch, (IAU-CTB) [2021]**
Courses: Evolutionary Algorithms, winter 2021 as TA

AWARDS AND HONORS

- Top student in MSc. Program for all 3 semesters, 2020-2022
- Top Student of The Academic Year Award, Tehran Technical and Vocational College No. 1, 2012-13

PRESENTATIONS

- **Mohammad Asadolahi**, “*AlphaGo: surpassing human in long term strategies and beyond*”, (Department of Artificial Intelligence and Robotics, SRBIAU), Tehran, Iran , January 2021
- **Mohammad Asadolahi**, “*Blind Search: pros and cons*”, (Department of Technical and Engineering, IAU-CTB) , Tehran , Iran , December 2020

REFERENCES

- Prof. **Arash Sharifi**, [Department of Artificial Intelligence and Robotics, Azad University – Science and Research Branch], Tehran, Iran
Academic Email: a.sharifi@srbiau.ac.ir
Email: arash.sharifi@gmail.com
Google Scholar: <https://scholar.google.com/citations?user=eZB7S8kAAAAJ&hl>
- Prof. **Touraj BaniRostam**, [Department of Technical and Engineering, Azad University – Central Tehran Branch], Tehran, Iran
Academic Email: banirostam.iauctb.ac.ir
Email: banirostam@yahoo.com
Google Scholar: <https://scholar.google.ca/citations?user=Igai5DsAAAAJ&hl=en>