

RESEARCH INTERESTS

- **Sequential Decision Making**
- **Reinforcement Learning**
- **Foundation Models**

EDUCATION

Boston University

PhD - Computing & Data Science

Boston, MA, USA

2023–current

Sharif University of Technology

Bachelor of Science

Tehran, Iran

2018–2023

- Major: Applied Mathematics
- Minor: Computer Science

RESEARCH EXPERIENCE

Learning rate-free Reinforcement Learning with Model Selection

TTIC 2024 Workshop on Adaptive Learning in Complex Environments

Boston, MA

Spring 2024

- Short version of the work is accepted to the RLC 2024 Workshop on Failure Modes of Sequential Decision-Making in Practice
- Link to paper preprint [🔗](#)
- Link to GitHub repo [🔗](#)

DeLF: Designing Learning Environments with Foundation Models

AAAI 2024 Workshop on Synergy of Reinforcement Learning and Large Language Models

Boston, MA

Fall 2023

- Link to paper preprint [🔗](#)
- Link to GitHub repo [🔗](#)

A Reinforcement Learning Approach to Lightning Network Fee Policy

Bachelor Thesis at Sharif University of Technology

Tehran, Iran

Fall 2021–Fall 2022

- Link to paper preprint [🔗](#)
- Link to GitHub repo [🔗](#)

Reward Design of Virtual Biomechanical Model

Research Internship at Aalto University

Espoo, Finland

August 2023



- Link to video demos [🔗](#)
- Link to project presentaion slides [🔗](#)

Hierarchical Potential-based Reward Shaping for highway environment


Research Internship at Vienna University of Technology (TU Wien)

Vienna, Austria

Summer 2022

- Link to HPRS GitHub repo 
- Link to HPRS paper preprint 

AWARDS

- Srinivasa Krishnamurthy PhD Fellowship Fall 2023
- College of Engineering, Boston University
- Boston University Distinguished Computer Engineering Fellowship Fall 2023
- Department of Electrical and Computer Engineering, Boston University
- Third place in !Optimizer Competition of SOAL Optimization Lab  Summer 2021
- Department of Mathematical Sciences, Sharif University of Technology

SKILLS

• Programming:

1. Julia
2. Python
3. Java
4. C++
5. Matlab

• ML:

1. PyTorch
2. TensorFlow
3. Keras

• Optimization:

1. JuMP
2. MathOptInterface
3. CVXPY

RELEVANT COURSES

- | | |
|----------------------------|-----------------------------|
| 1. Algorithmic Game Theory | 1. Advanced Linear Algebra |
| 2. Automata Theory | 2. Convex Optimization |
| 3. Machine Learning Theory | 3. Semidefinite Programming |
| 4. Advanced Programming | 4. Stochastic Processes |
| 5. Data Structures | 5. Bayesian Statistics |

LANGUAGES

- **English:** Proficient (TOEFL iBT: 107/120)
- **Persian:** Native

REFERENCES

References are available upon request.