

# Matin Moezzi

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## Education

- 2022 – Present** Master of Applied Science, Mechanical and Industrial Engineering Department, University of Toronto
- 2016 – 2021** Bachelor of Computer Science—Minor in Mathematics, Department of Mathematics & Computer Science, Amirkabir University of Technology (Tehran Polytechnic) – Selected Courses GPA: 4.0/4.0

## Research Experience

- 2022** **Transfer Reinforcement Learning in Robotic Systems**  
Developing a set of algorithms aiming to transfer the learned policy in the simulation to the real robotic system (Sim-to-real transfer problem)  
Dynamic Optimization & Operations Management Lab – University of Toronto  
Under Supervision of [Prof. Chi-Guhn Lee](#)
- 2021** **Data-Efficient Hierarchical Reinforcement Learning using Importance Sampling** [\[PDF\]](#)[\[Code\]](#)  
Developed an approach to improve data-efficiency of the hierarchical deep Q network algorithm (h-DQN) using the importance sampling method.
- 2021** **An Uncertainty-Aware Pseudo-Label Selection Framework using Regularized Conformal Prediction** [\[PDF\]](#)[\[Code\]](#)  
Employing uncertainty sets yielded by the conformal regularization algorithm in the uncertainty-aware pseudo-label selection framework to fix the poor calibration neural networks, reducing noisy training data.
- 2020** **Solving the System of ODEs of the Control Spread of Ebola Virus Epidemic using Deep Neural Networks** [\[Code\]](#)  
Faculty of Mathematics and Computer Science – Amirkabir University of Technology  
Under Supervision of [Prof. Mostafa Abbaszadeh](#)
- 2020** **Adding the L-BFGS Support for Training DNNs to the *NeuroDiffEq* package** [\[Code\]](#)

## Teaching Experience

**Neural Networks (Graduate Level)**, Teaching Assistant, Faculty of Electrical Engineering, Amirkabir University of Technology, Spring 2021 — Under Supervision of [Prof. M. B. Menhaj](#)

**Numerical Linear Algebra**, Teaching Assistant, Faculty of Mathematics & Computer Science, Amirkabir University of Technology, Spring 2020 — Under Supervision of [Prof. Mostafa Abbaszadeh](#)

**Operating Systems**, Teaching Assistant, Faculty of Computer Science, Amirkabir University of Technology, Fall 2019, Spring 2020, Spring 2021 — Under Supervision of [Prof. H. Nourikhah](#)

**Computer Networks**, Teaching Assistant, Faculty of Computer Engineering, Amirkabir University of Technology, Spring 2020 — Under Supervision of [Prof. M. Sabaei](#)

## Work Experience

- 2018 – 2019** **Software Developer**, iTours Online Travel Agency Co., Tehran, Iran
- Implemented enterprise B2B SOAP & Restful Web Services  
Developed Asp.Net Core Web Apps & Web APIs

**2017 – 2018**   **Web Developer**, Parsian Insurance Co., Tehran, Iran

Effectively refactored previous projects based on Design Patterns & SOLID principles  
Successfully Developed an Asp.Net web application for the insurance management system

## Online Degrees & Courses

<b>Artificial Intelligence Nanodegree</b> Peter Norvig & Sebastian Thrun, Udacity	<a href="#">[See the Certificate]</a>
<b>Reinforcement Learning Specialization</b> , University of Alberta, Coursera	<a href="#">[See the Certificate]</a>
<b>Practical Reinforcement Learning (with honors)</b> , HSE, Coursera	<a href="#">[See the Certificate]</a>
<b>Deep Learning Specialization</b> , Andrew Ng, deeplearning.ai, Coursera	<a href="#">[See the Certificate]</a>
<b>Cutting-Edge AI: Deep Reinforcement Learning in Python</b> , Udemy	<a href="#">[See the Certificate]</a>
<b>Natural Language Processing Specialization</b> , deeplearning.ai, Coursera	<a href="#">[See the Certificate]</a>
<b>TensorFlow Developer Specialization</b> , deeplearning.ai, Coursera	<a href="#">[See the Certificate]</a>
<b>Machine Learning</b> , Andrew Ng, Stanford University, Coursera	<a href="#">[See the Certificate]</a>
<b>Network Function Virtualization</b> , Georgia Institute of Technology, Coursera	<a href="#">[See the Certificate]</a>
<b>Software Defined Networking</b> , The University of Chicago, Coursera	<a href="#">[See the Certificate]</a>
<b>Generative Adversarial Networks Workshop</b> , Amirkabir Artificial Intelligence Summer Summit 2020	<a href="#">[See the Certificate]</a>

## Skills

**Software Programming:** .Net/ Asp.Net, Microservices, SOLID Principles, SOAP & Restful Web Services

**Computer Network:** TCP/IP, SDN & NFV, Mininet Emulator, Wireshark, Boson

**Programming Languages:** C/C++, Python, MATLAB, R, Java, C#, SQL, Javascript

**Libraries:** Pandas, Scikit-learn, PyTorch, TensorFlow, Keras, OpenAI Gym, Nvidia Omniverse IsaacSIM & IsaacGym

**Others:** Linux Server Administration, Bash Scripting, MySQL, L<sup>A</sup>T<sub>E</sub>X, Git, Raspberry Pi, ROS

## Activities

**Editorial Board Member of Student Scientific Journal**, Mathematics & Computer Science Faculty  
Amirkabir University of Technology, 2020 - Present

## References

**Prof. Chi-Guhn Lee**, Full Professor, Department of Mechanical and Industrial Engineering, University of Toronto  
[cglee@mie.utoronto.ca](mailto:cglee@mie.utoronto.ca)

**Prof. Mohammad B. Menhaj**, Full Professor, Department of Electrical Engineering, Amirkabir University of Technology (Tehran Polytechnic), Iran, [menhaj@aut.ac.ir](mailto:menhaj@aut.ac.ir)

**Prof. Mostafa Abbaszadeh**, Assistant Professor, Department of Mathematics & Computer Science, Amirkabir University of Technology (Tehran Polytechnic), Iran, [m.abbaszadeh@aut.ac.ir](mailto:m.abbaszadeh@aut.ac.ir)

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