

# SINA QAUREMANI

📍 Dept. ECE & Ingenuity Labs Research Institute  
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## RESEARCH INTERESTS

My main research interests are:

- Machine Learning And Deep Learning
  - Robotics
  - Uncertainty in Deep Neural Networks
  - Decentralized Control
  - Deep Reinforcement Learning
  - Meta Learning
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## EDUCATION

- **PhD**, (*Sep 2023 - present*): Electrical Engineering, Department of Electrical and Computer Engineering, Queen's University, Kingston, ON, Canada
  - **MSc**, (*Sep 2018 - Aug 2021*): Electrical Engineering (Control Systems), Department of Electrical Engineering, Sharif University of Technology (*Sharif*), Tehran, Iran, **GPA: 3.5/4.0**, Thesis: **Data-driven Methods for Cooperative Control of Wheeled Mobile Robots (Deep Reinforcement Learning Method)**
  - **BSc**, (*Sep 2013 - Aug 2018*): Electrical Engineering (Control Systems), Department of Electrical Engineering, Hamedan University of Technology (*HUT*), Hamedan, Iran, **GPA: 3.4/4.0**, Bachelor's Project: **Establishing the Raspberry Pi Connection with MATLAB Software to Implement the Quadrotor Set Controller using ROS**
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## PUBLICATIONS

- M. Abdar, S. Salari\*, S. Qahremani\*, H. K. Lam, F. Karray, S. Hussain, A. Khosravi, U. R. Acharya, V. Makarenkov, S. Nahavandi, **UncertaintyFuseNet : Robust uncertainty-aware hierarchical feature fusion model with Ensemble Monte Carlo Dropout for COVID-19 detection**, Information Fusion, Sep 2022, DOI: 10.1016/j.inffus.2022.09.023

\* These authors contributed equally to this work.

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## SKILLS

- **Programming Languages:**  
Python (pytorch, tensorflow, sklearn, numpy, matplotlib, pandas, django), C, C++, JS (nodeJS, nestJS, typescript), SQL
- **Professional Softwares:**  
Anaconda (Spyder, Jupyter Notebook), Pycharm, webstorm, Matlab and Simulink, VS Code, ROS (Robot Operating System)
- **Hardware and Embedded Systems:**  
Raspberry Pi, Arduino, AVR, APM (Flight Controller), PXFMini (Flight Controller Shield for Raspberry Pi)
- **OS/VCS/Services:**  
Linux (Ubuntu), Git, Docker, Kafka, Redis
- **Other:**  
Joomla, Wordpress, HTML, CSS

## WORK EXPERIENCES

- **Backend Developer (Django, NestJS)**, Hamrah Academy, Tehran, Iran, April 2023 - September 2023
  - **AI and Data Scientist, Backend Developer (Django, NestJS)**, Dorfak, Tehran, Iran, July 2021 - April 2023
  - **Leading AI and backend Team**, Mapno, Tehran, Iran, Jan 2020 - Jun 2021
  - **Leading Backend Team**, Mapno, Tehran, Iran, Jan 2019 - Jan 2020
  - **Instrumentation Internship**, Mahabad Petrochemical Company, Mahabad, Iran, July 2016 - September 2016
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## PROFESSIONAL ACTIVITIES

- **Reviewer for “Neural Processing Letters” Journal**, Springer Nature, Dec 2021
  - **Research consultant for “Formulation and Design ML method to predict cancer treatment effects”**, Nano Bioelectronics Devices Lab, Cancer Electronics Research Group, University of Tehran, Oct 2021
  - **Speaker of “Roadmap to Artificial Intelligence And Deep Learning” keynote**, IEEE, HUT, Hamedan, Iran, Dec 2020
  - **Speaker of “Deep Learning and its applications” keynote**, HUT, Hamedan, Iran, May 2019
  - **Speaker of “Image processing with MATLAB and Raspberry Pi” workshop**, HUT, Hamedan, Iran, April 2018
  - **Referee of “Youth demo of FIRACUP 2019”**, Amirkabir University of Technology, Tehran, Iran, March 2019
  - **Head of Electrical and Electronics Engineering Association (EEEA)**, HUT, Hamedan, Iran, 2015 - 2016
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## TEACHING EXPERIENCES

- **Workshops and Courses:**
    - **Lecturer of “Introduction to Python, a data science approach” workshop**, IEEE, HUT, Spring 2021.
    - **Lecturer of Matlab Software**, HUT, Hamedan, Iran, Spring 2016, 2017, Fall 2017, 2018
  - **Teaching Assistant at Sharif:**
    - **Deep Learning**, Instructor: Dr. Mahdie Soleymani, Spring 2020
    - **Deep Learning**, Instructor: Dr. Emadaddin Fatemizadeh, Fall 2019
    - **Robot Control 1**, Instructor: Dr. Mehrzad Namvar, Fall 2019
  - **Teaching Assistant at HUT:**
    - **Linear Control Systems**, Instructor: Dr. Mahdi Khodabandeh, Fall 2017
    - **Computer Programming**, Instructor: Ms. Tayyebah Hosseini, Spring 2017
    - **Signal and Systems**, Instructor: Mr. Mehdi Seifi, Fall 2016
    - **Engineering Mathematics**, Instructor: Dr. Adel Mohammadi, Fall 2015
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## MEMBERSHIP

- **Student Member of IEEE**, Apr 2015 - Apr 2020
  - **Member of IEEE Robotics and Automation Society**, Jan 2018 - Jan 2019
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## LANGUAGES

- **English:** Full Professional proficiency
  - **TOEFL iBT: 95/120** (Reading: 24, Listening: 28, Speaking: 21, Writing: 22)
- **Kurdish:** Mother Tongue
- **Persian:** Second Language