Seyed Roozbeh Razavi Rohani

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Google Scholar
Homepage

HIGHLIGHTS

- Third-year PhD student in Computer Science at Simon Fraser University.
- Conducting research on non-stationary environments and sequential decision-making, with a focus on continual learning and reinforcement learning (RL).
- Published four papers in top-tier machine learning and robotics conferences and journals; actively pursuing novel directions in deep learning and RL.
- Proficient in deep learning development using PyTorch, with strong experience in hyperparameter tuning and model optimization.
- Familiar with Isaac Sim and Isaac Lab for scalable simulation and training.
- Familiar with ROS2 and hands-on experience with real-world robotic systems.
- Demonstrated creativity, perseverance, and enthusiasm in addressing complex research and engineering challenges.

EDUCATION

- **Ph.D. in Computer Science** — Burnaby, BC, Canada
  Simon Fraser University — *Sept. 2023 - Present*
  - GPA: 4.08/4.33
  - Thesis title: Knowledge Transfer under Non-stationarity
  - Supervisor: Prof. Mo Chen
- **M.Sc. in Computer Engineering - AI & Robotics** — Tehran, Iran
  Sharif University of Technology — *Sept. 2019 - Jan. 2022*
  - GPA: 18.86/20 (4/4)
  - Thesis: Brain-inspired meta reinforcement learning using brain-inspired networks
  - Supervisor: Prof. Mahdiyeh Soleymani Baghshah
- **B.Sc. in Computer Engineering - Software** — Shiraz, Iran
  Shiraz University — *Sept. 2014 - July 2019*
  - GPA (last 3 years): 18.46/20 (3.89/4)
  - Project: Big data approach to extract high-level insights from university database (20/20)

PUBLICATIONS

1. Seyed Roozbeh Razavi Rohani, Khashayr Khajavi, Wesley Chung, Mandana Samiei, and Mo Chen. Neumosync: End-to-end neuromodulatory control for plasticity and adaptability in continual learning. In *The Fourteenth International Conference on Learning Representations (ICLR)*, 2026 (Submitted)

2. Seyed Roozbeh Razavi Rohani, Khashayr Khajavi, Wesley Chung, Mo Chen, and Sharan Vaswani. Preserving plasticity in continual learning with adaptive linearity injection. In *Fourth Conference on Lifelong Learning Agents - CoLLAs 2025*, 2025. `https://arxiv.org/abs/2505.09486`

3. Sahar Leisiazar, Seyed Roozbeh Razavi Rohani, Edward J Park, Angelica Lim, and Mo Chen. Adapting to frequent human direction changes in autonomous frontal following robots. *IEEE Robotics and Automation Letters*, 2025

4. Negin Hashemi Dijujin, Seyed Roozbeh Razavi Rohani, Mohammad Mahdi Samiei, and Mahdieh Soleymani Baghshah. Inductive biases for zero-shot systematic generalization in language-informed reinforcement learning. *Machine Learning*, 114(6):137, 2025

5. Seyed Roozbeh Razavi Rohani, Saeed Hedayatian, and Mahdieh Soleymani Baghshah. Bimrl: Brain inspired meta reinforcement learning. In *2022 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, pages 9048–9053, 2022

RESEARCH & WORKING EXPERIENCES

Intern at Human in Motion Robotics Sept. 2025 - Present
Human in Motion Robotics Inc., Vancouver, BC, Canada
Led migration to RL-based controller

Research Assistant at Multi-Agent Robotic Systems (MARS) Sept. 2023 - Present
Simon Fraser University, Burnaby, BC, Canada
Supervised by Prof. Mo Chen

Research Assistant at Machine Learning Laboratory (MLL) Dec. 2019 - Sept. 2023
Sharif University of Technology, Tehran, Iran
Supervised by Prof. Mahdieh Soleymani

Bachelor's Project, Developer April 2017 - Sept. 2017
ICT Center of Shiraz University
Big data pipeline using Apache Spark & Spring Boot

AWARDS & HONORS

- CMPT Graduate Fellowship and PhD Research Scholarship, SFU, awarded annually for 4 years.
- Top 20% GPA among M.Sc. graduates, Sharif University of Technology.
- 3rd place in Iranian University Entrance Exam for M.Sc. in AI and Robotics.
- Top 15% GPA among B.Sc. graduates, Shiraz University.

SKILLS

- **Programming Languages:** Python, C/C++, Java, C#, MATLAB

- **Deep Learning Frameworks:** PyTorch, TensorFlow, JAX
- **Libraries & Packages:** NumPy, Pandas, Scikit-learn, Matplotlib, Isaac Gym
- **Tools & Platforms:** ROS2, Apache Spark, Spring Boot, Django, Neo4j, MongoDB, Git, GitHub
- **Simulation Environments:** Isaac Sim, MuJoCo

TEACHING ASSISTANT

Machine Learning (SFU), Fall 2024, Fall 2025	Prof. Mo Chen
Reinforcement Learning (SUT), Spring 2022	Prof. M.H. Rohban
Advanced Machine Learning (SUT), Spring 2022	Prof. M. Soleymani
Deep Learning (SUT), Spring 2021	Prof. H. Beigy

SELECTED COURSES

- *Causal Models & Transfer Learning (Prof. M. Ester) – A*
- *Generative Models (Prof. K. Li) – A^+*
- *Deep Learning (Prof. M. Soleymani) – 19.1/20*
- *Stochastic Processes (Prof. H. Rabee) – 17.2/20*
- *Machine Learning Theory (Prof. H. Beigy) – 20/20*
- *Neuroscience: Learning, Memory, Cognition (Prof. H. Aghajan) – 20/20*