

# Fardad Dadboud

## Graduate Research Assistant

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### 🎓 EDUCATION

<b>Ph.D. of Electrical Engineering and Computer Science (EECS), University of Ottawa</b> ✉ Supervisor: Professor M. Bolic ✉ , Co-Supervisor: Dr. I. Mantegh ✉	Jan 2021 – present Ottawa, Canada
<b>M.Sc. of Biomedical Engineering-Bioelectric, Sharif University of Technology</b> Supervisor: Dr. M. Jahed	Sep 2015 – Jan 2018 Tehran, Iran
<b>B.Sc. of Electrical Engineering, Babol Noshirvani University of Technology</b>	Sep 2010 – Sep 2015 Babol, Iran

### 📁 PROFESSIONAL EXPERIENCE

<b>Volunteer Visitor, National Research Council (NRC)</b> ✉ UAV detection and tracking in videos for both real and simulated scenarios	May 2021 – present Ottawa, Canada
<b>Graduate Research Assistant, University of Ottawa</b> Deep Learning and Computer Vision applications in Autonomous Vehicles	Jan 2021 – present Ottawa, Canada

### 📖 PUBLICATIONS

<b>DrIFT: Autonomous Drone Dataset with Integrated Real and Synthetic Data, Flexible Views, and Transformed Domains (*Under Review),</b> <i>Conference on Computer Vision and Pattern Recognition (CVPR) 2024</i> Dadboud, Azad, Mehta, Bolic, Mantegh	2023
<b>Object Semantics Give Us the Depth We Need: Multi-task Approach to Aerial Depth Completion,</b> <i>The 2023 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2023)</i> Hatami, Dadboud, Bolic, Mantegh, Najjaran	2023
<b>Single-Stage UAV Detection and Classification with YOLOV5: Mosaic Data Augmentation and PANet,</b> <i>17th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS)</i> Dadboud, Patel, Mehta, Bolic, Mantegh	2021
<b>A machine learning model for predicting favorable outcome in severe traumatic brain injury patients after 6 months, Acute and critical care</b> Nourelahi, Dadboud, Khalili, Niakan, Parsaei	2021

### 🏆 AWARDS

<b>The second place of Drone-vs-Bird Detection Challenge,</b> <i>4th WOSDETC of IEEE AVSS 2021</i>	2021
<b>Research Scholarship, University of Ottawa</b>	2021
<b>Ranked 44th in National Entrance Exam for Master of Science</b>	2015

### 🧠 SKILLS

<b>Software</b> Pycharm, VSCode, VIM, Nano, Git, tmux	<b>Programming</b> Python, MATLAB, C/C++, JAVA	<b>DL &amp; CV Frameworks</b> Pytorch, TensorFlow, OpenCV, YOLOV5/V7, MMDetection, Detectron2, CVAT
<b>MLops</b> neptune.ai	<b>Simulation</b> AirSim	<b>Cluster Batch Systems</b> SLURM, Digital Research Alliance (ComputeCanada), CMC
<b>OS</b> Windows, Linux-Based, macOS, Android, IOS	<b>Type Setting</b> LATEX, Microsoft Office	