

# Fardad Dadboud

## Graduate Research Assistant

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### 🎓 EDUCATION

**Ph.D. of Electrical Engineering and Computer Science (EECS), University of Ottawa** 📄 Jan 2021 – present  
Supervisor: Professor M. Bolic 📄, Co-Supervisor: Dr. I. Mantegh 📄 Ottawa, Canada

**M.Sc. of Biomedical Engineering-Bioelectric, Sharif University of Technology** Sep 2015 – Jan 2018  
Supervisor: Dr. M. Jahed Tehran, Iran

**B.Sc. of Electrical Engineering, Babol Noshirvani University of Technology** Sep 2010 – Sep 2015  
Babol, Iran

### 📁 PROFESSIONAL EXPERIENCE

**Volunteer Visitor, National Research Council (NRC)** 📄 May 2021 – present  
UAV detection and tracking in videos for both real and simulated scenarios Ottawa, Canada

**Graduate Research Assistant, University of Ottawa** Jan 2021 – present  
Deep Learning and Computer Vision applications in Autonomous Vehicles Ottawa, Canada

### 📖 PUBLICATIONS

**Object Semantics Give Us the Depth We Need: Multi-task Approach to Aerial Depth Completion (\*Submitted),** 2023  
*The 2023 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2023)*  
Hatami, Dadboud, Gupta, Bolic, Najjaran

**Single-Stage UAV Detection and Classification with YOLOV5: Mosaic Data Augmentation and PANet,** 2021  
*17th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS)*  
Dadboud, Patel, Mehta, Bolic, Mantegh

**A machine learning model for predicting favorable outcome in severe traumatic brain injury patients after 6 months, Acute and critical care** 2021  
Nourelahi, Dadboud, Khalili, Niakan, Parsaei

### 🏆 AWARDS

**The second place of Drone-vs-Bird Detection Challenge,** 2021  
*4th WOSDETC of IEEE AVSS 2021*

**Research Scholarship, University of Ottawa** 2021

**Ranked 44th in National Entrance Exam for Master of Science** 2015

### 🧠 SKILLS

**Software**  
Pycharm, VSCode, VIM, Nano, Git, tmux

**MLops**  
neptune.ai

**OS**  
Windows, Linux-Based, macOS, Android, IOS

**Programming**  
Python, MATLAB, C/C++, JAVA

**Simulation**  
AirSim

**Type Setting**  
LATEX, Microsoft Office

**DL & CV Frameworks**  
Pytorch, TensorFlow, OpenCV, YOLOV5/V7, MMDetection, Detectron2, CVAT

**Cluster Batch Systems**  
SLURM, Digital Research Alliance (ComputeCanada), CMC