

Fardad Dadboud

Ph.D. Candidate | RA

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🌐 Fardad Dadboud 🔄 Fardaddadboud 📌 Fardad Dadboud

🎓 EDUCATION

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

📁 PROFESSIONAL EXPERIENCE

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

📖 PUBLICATIONS

DrIFT: Autonomous Drone Dataset with Integrated Real and Synthetic Data, Flexible Views, and Transformed Domains, <i>Winter Conference on Applications of Computer Vision (WACV) 2025</i> Dadboud, Azad, Mehta, Bolic, Mantegh	2024
Object Semantics Give Us the Depth We Need: Multi-task Approach to Aerial Depth Completion, <i>The 2023 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2023)</i> Hatami, Dadboud, Bolic, Mantegh, Najjaran	2023
Single-Stage UAV Detection and Classification with YOLOV5: Mosaic Data Augmentation and PANet, <i>17th IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS)</i> Dadboud, Patel, Mehta, Bolic, Mantegh	2021
A machine learning model for predicting favorable outcome in severe traumatic brain injury patients after 6 months, <i>Acute and critical care</i> Nourelahi, Dadboud, Khalili, Niakan, Parsaei	2021

🏆 AWARDS

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

SKILLS

Software

Pycharm, VSCode, VIM, Nano,
Git, tmux

MLops

neptune, DVC, DagsHub, mlflow,
wandb

OS

Windows, Linux-Based, macOS,
ROS

Programming

Python, MATLAB, C/C++, JAVA

Simulation

AirSim, Gazebo, MATLAB

Type Setting

LATEX, Microsoft Office

DL & CV Frameworks

Pytorch, TensorFlow, OpenCV,
YOLOV5/V7, MMDetection,
Detectron2, CVAT, SAM, CLIP,
BLIP

Cluster Batch Systems

SLURM, Digital Research Alliance
(ComputeCanada), CMC, AWS