Boudjoghra, Mohamed el amine

EDUCATION

PhD in computer science present
Technical University of Munich, Munich, Germany

MSc in computer vision 13 May 2024
Mohamed Bin Zayed University of Artificial Intelligence, Abu Dhabi, UAE GPA: 3.9/4.0

Engineering degree in control systems and automation 22 June 2022
Ecole Nationale Polytechnique, Algiers, Algeria GPA: 15.48/20

PUBLICATIONS

ScanEdit: Hierarchically-Guided Functional 3D Scan Editing | *ICCV 2025*
MEA Boudjoghra, I Laptev, A Dai

All in One: Visual-Description-Guided Unified Point Cloud Segmentation | *ICCV 2025*
Z Han, MEA Boudjoghra, J Dong, J Wang, R M Anwer

Open3DTrack: Towards Open-Vocabulary 3D Multi-Object Tracking | *ICRA 2025*
A Ishaq, MEA Boudjoghra, J Lahoud, F S Khan, S Khan, H Cholakkal, R M Anwer

Open-Yolo 3D: Towards Fast and Accurate Open-Vocabulary 3D Instance Segmentation | *ICLR 2025 (Oral)*
MEA Boudjoghra, A Dai, J Lahoud, H Cholakkal, RM Anwer, S Khan, FS Khan

Continual Learning and Unknown Object Discovery in 3D Scenes via Continual Self-Distillation | *ECCV 2024*
MEA Boudjoghra, J Lahoud, H Cholakkal, RM Anwer, S Khan, FS Khan

3D Indoor Instance Segmentation in an Open-World | *NeurIPS 2023*
MEA Boudjoghra, SK. Al Khatib, J Lahoud, H Cholakkal, RM Anwer, S Khan, FS Khan

3D Instance Segmentation via Enhanced Spatial and Semantic Supervision | *ICCV 2023*
SK. Al Khatib, MEA Boudjoghra, J Lahoud, FS Khan

State-Domain Equations and Their Quantum Computing Solution Based HHL Algorithm | *MMEP*
MEA Boudjoghra, SAS Daimellah, N Zioui, Y Mahmoudi, M Tadjine

EXPERIENCE

Research Assistant | *Mohamed Bin Zayed University of Artificial Intelligence* 15 June 2024 - 30 October 2024
Conducting research on deep learning models for autonomous driving and 3D scene understanding.

Graduate Assistant | *Mohamed Bin Zayed University of Artificial Intelligence* 1 August 2023 - 1 December 2023
Assisted PhD students in the Advanced Computer Vision course (CV801) to get hands-on experience in vision language models, and object segmentation and detection.

Intern | *Core42* 29 May 2023 - 10 July 2023
Worked on developing computer vision algorithms specifically for videos

HONORS & AWARDS

UAE, Abu Dhabi | *Academic excellence award* 2024
France, Paris | *ICCV DEI award* 2023
UAE, Abu Dhabi | *MBZUAI fully funded scholarship* 2022
Algeria, Algiers | *Ranked 3rd nationally in engineering contest for higher education schools enrollment* 2019

PROJECTS

YOLOngv8: From Imbalanced to Accurate Object Detection in Long Tailed iSAID Dataset | 2023
Visual Simultaneous Localization and Mapping on Lie groups | 2022
Indoor localization and navigation for an autonomous drone | 2019
Arduino-based autonomous robot | 2019

LANGUAGES

Arabic (Native) | **English (IELTS 7)** | **Japanese (Intermediate)** | **French (Advanced)**