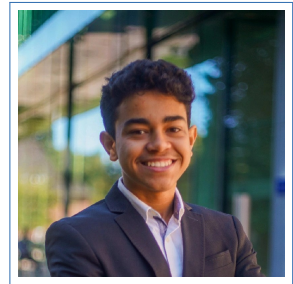


Mourad Ouazghire

*M.Sc. Artificial
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Education

- Oct 2024 – **M.Sc. Artificial Intelligence & Machine Learning**, *Technische Universität Darmstadt*,
Present Darmstadt, Hessen, Germany
Coursed undertaken: Natural Language Processing and the Web, Deep Learning for NLP, Multimodal Artificial Intelligence, Statistical Machine Learning, Introduction to Artificial Intelligence, Deep Learning for Medical Imaging, Deep Generative Models, Deep Learning: Architectures & Methods.
- Sep 2021 – **B.Sc. Robotics and Intelligent Systems (Honours)**, *Constructor University Bremen*,
Jun 2024 Bremen, Germany
Bachelor's Thesis: *Object Detection from Real Life Road Traffic Images combined with Explainable Deep Learning Approaches*, GPA: Very Good

Experience

Research

- Jun 2024 – **Research Intern**, *Australian Centre for Robotics*, Sydney, Australia
- Sep 2024 ○ Co-authored a paper accepted at the Australasian Conference on Robotics and Automation 2024: "Performance Assessment of Lidar Odometry Frameworks: A Case Study with Loop Closure at Australian Botanic Garden Mount Annan".
- Jun 2023 – **Research Intern**, *Ingeniarius Ltd.*, Porto, Portugal
- Aug 2023 ○ Implemented a LIO-SAM SLAM pipeline transforming LiDAR point clouds into octrees to rapidly identify novel environmental information, reducing processing time of large maps.
○ Mentored engineering students during the RobotCraft 2023 Summer Program on autonomous vehicle simulation and LiDAR data processing.
- Jun 2022 – **Research Intern**, *DFKI – German Research Center for Artificial Intelligence*, Bremen,
Aug 2022 Germany
○ Contributed to the EU-funded APRIL project by developing MuJoCo simulation models of the anthropomorphic MIA Hand end-effector.
○ Measured contact forces between robotic fingers and grasped objects using Python-based experiments; participated in bi-weekly progress reviews.

Teaching and full-time work

- Sep 2023 – **Teaching Assistant – Computer Vision & Major Representative**, *Constructor Univer-*
Jun 2024 *sity*, Bremen, Germany
○ Delivered weekly tutorials and graded programming assignments for 97 students covering filtering, feature detection, segmentation, motion tracking and vision automation in Python.
○ Represented the Robotics and Intelligent Systems major at campus and national outreach events.

Volunteering

May 2022 – **Co–main Organizer**, *jacobsHack!22*, Bremen, Germany

Nov 2022 Hosted one of the largest hackathons in Central Europe; coordinated five departments (Logistics, IT, Sponsorship & Finance, Recruitment, Design & Promotion), managed sponsor relations and ensured seamless on–site operations.

Winter & Summer Schools

Sep 2023 **Inria–DFKI Joint Summer School**, *Côte d’Azur*, France

Jul 2024 **Australian School of Robotic Systems**, *Sydney*, Australia

Honours & Awards

○ DAAD RISE Worldwide Scholar 2024

○ DAAD RISE Worldwide Scholar 2023

Languages

English Fluent

German B2

French Fluent

Arabic Fluent

Technical Skills

Programming Python, C/C++, MATLAB

Tools Git, Linux, LaTeX

Robotics MuJoCo, Gazebo

Frameworks PyTorch, TensorFlow, ROS

Data OpenCV, PCL, pandas