

MARIEM KHLIFI

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RESEARCH INTEREST

3D Computer Vision, Non-Rigid Registration, Shape Analysis, Riemannian Geometry, Morse Theory

EDUCATION

Technical University of Munich

MSc.Electrical and Computer Engineering

"Deforming by experience: Realistic shape morphing of

unseen objects with embedding-driven geometric optimization"

Supervisors: Dr.Benjamin Busam and Fabian Manhardt

Munich, Germany

Expected September 2022

IMT Atlantique

MSc.Engineering (Double Degree with TUM)

Brest, France

Expected September 2022

Nara Institute of Science and Technology

Visiting Research Student

Robotics Perception

Ikoma, Japan

Aug 2019 to Oct 2019

Czech Technical University in Prague

Exchange Semester in Computer vision

Prague, Czech Republic

Feb 2018 to June 2018

RESEARCH EXPERIENCE

German Aerospace Center (DLR)

Working student

- Detection for the robot David at the Robotics and Mechatronics Center.

Munich, Germany

Jan 2020 to Apr 2020

Nara Institute of Science and Technology

Research intern at Robotics Lab

- Completed pose estimation in Python using deep learning libraries and state-of-the-art algorithms.

Ikoma, Japan

Sep 2019 to Oct 2019

IMT Atlantique

Research intern at Electronics Lab

- Worked on finding a structure in the visual cortex of the brain that resembles the layers of neural networks like InceptionV3

Brest, France

Aug 2018 to Sep 2018

TEACHING EXPERIENCE

IMT Atlantique

Computer Science Tutor

- Taught basics of algorithms, data structures, system related questions, computer science theory and programming languages

Brest, France

Sep 2017 to Jan 2018

ReDI School of Digital Integration

Python teacher

- Taught basics of programming for the Women's Digital Program.

Munich, Germany

Mar 2020 to Jul 2020

AWARDS

- Grace Hopper Celebration Women in Computing 2020 - TUM IFF grant
- Winner of the HackaTUM Zeiss challenge
- Scholarship of Excellence to French Engineering Schools
- Award for my baccalaureate in Mathematics (among the first 0.5% nationally)
- Regional Award for being ranked first in the region

INDUSTRY EXPERIENCE

Veios GmbH

Part-time Software Developer

Munich, Germany

Apr 2021 to Jun 2021

Elasticbrains GmbH

Part-time Software Developer

Munich, Germany

Mar 2019 to Jul 2019

OPEN SOURCE CONTRIBUTIONS

PyGraphistry

HACKATHONS

ScienceHack

- Implemented a program in Python that makes a sound conversion based on the detected objects,

- Optimized the code by running multi-threading to make it 4 times faster([project link](#))

SKILLS

- **Programming Languages:** Python, Java, C++, Matlab, C, SQL, UNIX Shell, Rust, Assembly,
- **Frameworks and tools:** Git, Flask, Pytorch, OpenCV, ROS, Gazebo, OpenAI, AR.js
- **Software:** Blender, MeshLab
- **Languages:** Arabic (Fluent), English (Fluent), French (Fluent) German (Advanced) Spanish (Intermediate) Japanese (Beginner)