

Hasan Moughnieh

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CAREER SUMMARY

Computer Vision researcher with an academic foundation in Electronics and Communication Engineering. Seeking a full-time role to innovate and drive impact in the AI industry through dedicated research and continuous skill advancement.

WORK EXPERIENCE

GEOspatial Artificial Intelligence Group (GEOAI)

Computer Vision Researcher

Transitioned from Intern to Full-time Researcher

- Continuously investigated Meta's Segment Anything Model (SAM) .
- Integrated a pre-trained CNN model as a prompt generator for SAM, specifically to enhance the segmentation of buildings in remote sensing images.
- Co-created a Awesome Vision-Language for RS ([VLM4EO](#)) Github repository.
- Demonstrated SAM in the 5th NOAA Workshop on Leveraging AI in Environmental Sciences and in "Embracing AI in Geospatial Field" webinar series.
- Adaptation of visual grounding foundation models for Geo-Spatial applications.
- Represented the group at the [European Geosciences Union \(EGU\)](#), presenting our preliminary work on "[Efficient adaptation of Foundation Models for visual grounding remote sensing](#)"

Mar 2023 - Current

Beirut , Lebanon

Ogero

Telecommunication Intern

- Hands-on experience with cabling, fault detection, testing, and Ogero's cabling system architecture.
- Enhanced knowledge of router configuration, ADSL, DSL, Smart City, Home Automation, and IoT concepts.

June 2022 - Aug 2022

Saida , Lebanon

TECHNICAL PROJECTS

Zero-Shot Refinement of Buildings' Segmentation Models using SAM - GEOAI

- Investigate various single and composite prompt strategies on SAM using Remote Sensing data.
- Experiment with two CNN models as prompt generators to SAM to get more accurate instance segmentation masks.
- Resulted in a [research paper](#) published at "The 5th International Electronic Conference on Remote Sensing"

Compact Dual Band Branch Line Coupler For Wireless Applications - Final Year Project

- Developed a Compact Dual Band Branch Line Coupler operating at WiFi frequencies, addressing challenges in modern communication system design.
- Collaborated with a team of four members and two supervisors.
- Resulted in a [research paper](#) published at IEEE MISTA-2023.

EDUCATION

Beirut Arab University

Bachelor of Electronics and Communications Engineering (GPA: 3.87)

Organizations/Awards: Dean's Honors List, Member of BAU IEEE society

Graduated: Dec 2022

CERTIFICATIONS

Deep Learning Specialization | DeepLearning.AI on Coursera

Achieved Feb 2023

DeepLearning.AI TensorFlow Developer Specialization| DeepLearning.AI on Coursera

Achieved May 2023

Generative Deep Learning with TensorFlow | DeepLearning.AI on Coursera

Achieved Oct 2023

SKILLS

Technical Skills

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|-------------------|--------------|----------------|
| • AI / ML / DL | • Python | • Google Cloud |
| • Computer Vision | • Pytorch | • Linux |
| • Multi-Modality | • TensorFlow | • SQL |