

HAMED HAGHIGHI

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Coventry, UK

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EXPERIENCE

ML Engineer

Hi-Drive

March 2022 - Present Remote

- Developing a semi-automatic data annotation tool (ML-ADA) based on active learning for the 2D/3D object detection task.

SOFTWARE ENGINEER

Medical Image and Signal Processing Research Center.

Summer 2016 Isfahan, Iran

- Designing innovative software for automatic evaluation of crown preparation using image processing technique.

EDUCATION

University of Warwick

PhD in Engineering

Deep Generative Models for Autonomous Vehicles

2020 - Coventry, UK

University of Tehran

M.Sc. in Artificial Intelligence

Thesis: "Ambient VAE: an unsupervised method for image restoration"

2016 - 2019 Tehran, Iran

- Total GPA: 18.85/20 (2nd student in the major)

Isfahan University of Technology

B.Sc. in Software Engineering

Thesis: "Implementing a real-time algorithm for face recognition on Android devices"

2012 - 2016 Isfahan, Iran

- Total GPA: 17.45/20 (2nd student in the major)

TECHNICAL SKILLS

Python, Pytorch, C/C++, R



Tensorflow, Javascript, SQL, C#, Java, SQL



OpenGL, PHP, Unity



SELECTED PUBLICATIONS

- H. Haghighi, M. Dianati, V. Donzella and K. Debatista, (2024) "Contrastive Learning-based Framework for Sim-to-Real Mapping of Lidar Point Clouds in Autonomous Driving Systems" submitted to IEEE Robotics & Automation Letters.
- H. Haghighi, M. Dianati, V. Donzella and K. Debatista, (2023) "Accelerating Stereo Image Simulation for Automotive Applications Using Neural Stereo Super Resolution," in IEEE Transactions on Intelligent Transportation Systems.
- Tahani, B.;Rashno, A.;Haghighi, H.; Kafieh, R. (2019) "Automatic evaluation of Crown Preparation using Image Processing Technique: A substitute to Faculty Scoring in Dental Education" published in *Journal of Medical Signals & Sensors*.

RESEARCH INTERESTS

- Generative Models
- Computer Graphics & Computer Vision
- Deep Learning & Machine Learning
- Artificial Intelligence

AWARDS AND HONORS

- Awarded full funding** for the PhD program in Engineering, University of Warwick, 2020 -2024
- Awarded full scholarship** for the graduate program in Artificial Intelligence, University of Tehran, 2016 -2018
- Placed 29th** among 15000 students in Computer Science National University Entrance Exam for M.Sc. Degree, 2016
- Awarded full scholarship** for the undergraduate program in Software Engineering, Isfahan University of Technology, 2012 -2016

REFERENCES

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