

Souhail Hadgi

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I am a final-year PhD student specializing in Artificial Intelligence and Computer Vision. My research focuses on transfer learning for 3D data, with emphasis on effective fine-tuning of pre-trained models for shape analysis, segmentation, and cross-modal (image and text) applications.

TECHNICAL SKILLS

Languages: Python, SQL, MATLAB, R

Frameworks: PyTorch, TensorFlow, Scikit-learn

Areas of Expertise: Machine Learning, Deep Learning, 2D & 3D Computer Vision, Natural Language Processing, LLM, Generative Modeling, Computer Graphics, Optimisation

EDUCATION

École Polytechnique

PhD Student. Supervised by Prof. Maks Ovsjanikov

France

Jan. 2023 – 2026

École Normale Supérieure Paris-Saclay

M2 Master: MVA (Mathematics, Vision, Learning). GPA: 4.0

France

2022

CentraleSupélec

Master of Engineering: Major in Mathematics, Specialization in Data Science. GPA: 4.0

France

2022

Bachelor of Engineering

2019

PUBLICATIONS

To Supervise or Not to Supervise: Understanding and Addressing the Key Challenges of Point Cloud Transfer Learning

Souhail Hadgi, Lei Li, Maks Ovsjanikov

ECCV 2024 ([Link](#))

Escaping Plato's Cave: Towards the Alignment of 3D and Text Latent Spaces

Souhail Hadgi et al.

CVPR 2025 ([Link](#))

EXPERIENCE

Research intern

May 2022 – Oct. 2022

École Polytechnique

- Analysis of several unsupervised pre-training approaches for 3D representation learning
- Adapted scene point-level contrastive learning approaches for 3D shapes

Data Scientist Intern

Aug. 2020 – Jul. 2021

DataScientest

- Designed Computer Vision modules for a Deep Learning Curriculum
- Supervised Deep Learning applied projects
- Conceived the scientific content of Data Challenges
- Taught Deep Learning courses for cohorts of learners

PROJECTS

Reconcile video predictions from multiple angles

Sicara

- Created a TensorFlow pipeline that generates videos of highways corresponding to a different view angle from the initial viewpoint
- Optimized an auto-encoder architecture for image generation

Segmentation models for audio data

Iluin Technology

- Created an end-to-end PyTorch deep learning pipeline for Speaker Diarisation
- Trained and evaluated the diarisation pipeline on the TCOF dataset