Imanol G. Estepa

PhD Student on Unified Self-supervised learning and Image Generation

✉ imagonzpa@gmail.com

 imagones.github.io/imanolgestepa.github.io/

in linkedin.com/in/imanol-g-estepa

 github.com/ImaGonEs

EDUCATION

PhD in Deep Learning Computer Vision
University of Barcelona

03/2024 - Present   *Barcelona, Spain*

AIBA research group

- Supervised by Prof. Petia Radeva.

Master in Artificial Intelligence
Universitat Politècnica de Catalunya

09/2021 - 01/2023   *Barcelona, Spain. GPA: 9.37/10*

Master in collaboration with the University of Barcelona and Rovira i Virgilli

- 9.9/10 in Computer Vision.
- Max grade with honors in Unsupervised learning.
- Max grade with honors to the master's thesis: "Analysis and improvement proposal on self-supervised deep learning".

Bachelor of Computer Science
Deusto University

07/2017 - 06/2021   *Bilbo, Spain. GPA: 8.54/10*

RESEARCH EXPERIENCE

Researcher
University of Barcelona

03/2023 - 01/2024   *Barcelona, Spain*

Computer Vision researcher working on Self-supervised representation learning, Contrastive learning and Image Generation.

Achievements/Tasks

- An A* Conference publication (Poster).
- Two A* Conference Workshop publications (Oral and Poster).
- Two Workshop Extended Abstracts (Both posters).
- Two PosterS and an Oral presentation on local conferences.
- Contributed to solo-learn SSL library (1.4k stars on GitHub)

Research fellow
University of Barcelona

04/2022 - 02/2023   *Barcelona, Spain*

Achievements/Tasks

- The main contributor of Mesurer European project.

Research fellow
DeustoTech - Deusto Technology Center

09/2019 - 05/2021   *Bilbo, Spain*

Achievements/Tasks

- The main contributor of HORUS industry research project focused on predictive maintenance.
- Three patents registered.

PUBLICATIONS

Conference Paper

All4One: Symbiotic Neighbour Contrastive Learning via Self-Attention and Redundancy Reduction ⬀

Imanol G. Estepa

Imanol G. Estepa, Ignacio Sarasua, Bhalaji Nagarajan, Petia Radeva

10/2023

Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV'23)

Conference Workshop Paper

Good Fences Make Good Neighbours ⬀

Imanol G. Estepa

Imanol G. Estepa, Jesús M. Rodríguez-de-Vera, Bhalaji Nagarajan, Petia Radeva

10/2023

Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV'23)

Conference Workshop Paper

Dining on Details: LLM-Guided Expert Networks for Fine-Grained Food Recognition ⬀

Jesús M. Rodríguez-de-Vera

Jesús M. Rodríguez-de-Vera, Pablo Villacorta Benito, Imanol G. Estepa, Ignacio Sarasua, Petia Radeva

10/23

Proceedings of the 8th International Workshop on Multimedia Assisted Dietary Managemen

CONFERENCES & TALKS

International Conference in Computer Vision (ICCV'2023)
Main Conference Poster presenter

4th Visual Inductive Priors for Data-Efficient Deep Learning Workshop (ICCVW'23)
Poster presenter

LatinX in CV (LXCV) Workshop (ICCVW'23)
Poster presenter

8th International Workshop on Multimedia Assisted Dietary Management (ACMMW'23)
Oral and Poster presenter

Deep Learning Barcelona Symposium (DLBCN'23)
Oral presenter

Annual Catalan Meeting on Computer Vision (ACMCV'23)
Poster presenter

LANGUAGES

English
Full Professional Proficiency

Spanish
Native or Bilingual Proficiency

Basque
Native or Bilingual Proficiency