

EDUCATION

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| (Exp.) Sept 2024 | PhD. Computer Vision and Deep Learning , Universitat Autònoma de Barcelona, Spain.
Thesis : (Provisional) “Transfer of Generative Models for Small Domains”
Supervisor : Joost van de Weijer
Advisor : Bogdan Raducanu |
| 2022 | Cambridge ELLIS Machine Learning Summer School , Cambridge University, United Kingdom.
European Laboratory for Learning and Intelligent Systems (ELLIS), Cambridge Unit. |
| 2019 | MSc. Machine Learning, Data Science and Artificial Intelligence , <i>Honours</i> distinction, Aalto University, Finland.
Thesis : “Deep Reinforcement Sequence Learning for Visual Captioning”. Aaltodoc .
Supervisor : Jorma Laaksonen |
| 2017 | BSc. Software Engineering , Complutense University, Madrid.
Specialised in Artificial Intelligence
A+ grades and honours scholarships, these including Machine Learning and Evolutionary Computation.
Thesis : “Several evolutionary approaches to advanced bot development for Pac-Man”. Paper .
Supervisor : Antonio A. Sánchez Ruiz-Granados
Advisor : Carlos Cervigon Ruckaüer |

EXPERIENCE

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| August 2024
September 2020 | Doctoral candidate at COMPUTER VISION CENTER, Barcelona
<i>Learning and Machine Perception Team</i>
Focus on efficient Generative Models under data-constrained scenarios. <ul style="list-style-type: none">➤ Huawei research project <i>Deep Lifelong Learning in Open World Scenarios</i>➤ Audi research project <i>Transfer Learning for Conditional Video Generation</i>➤ HPC cluster administrator. |
| August 2020
November 2019 | Project Employee at AALTO UNIVERSITY, Helsinki
<i>Extreme Classification Group (aka Rohit Babbar's group), School of Science</i>
Room acoustics modelling with Machine Learning methods Project <ul style="list-style-type: none">➤ Led implementation and model training efforts.➤ Analysed and discussed state-of-the-art generative time-series models focused on audio data.➤ Produced insightful visualisations for model behaviour debugging. |
| August 2019
April 2018 | Research Assistant at AALTO UNIVERSITY, Helsinki
<i>Content-Based Image and Information Retrieval Group, School of Science</i>
MeMAD Project, Video to Text (Horizon 2020 programme) <ul style="list-style-type: none">➤ Took part in international research collaboration for accessing and using audiovisual content.➤ Assisted on model training and feature creation.➤ Contributed to periodic international meetings with expertise and new findings. TRECVID Workshop 2018 and 2019, National Institute of Standards and Technology (NIST). <ul style="list-style-type: none">➤ Led efforts for 2019 edition challenge on Video to Text task.➤ Analysed and evaluated new optimisation losses based on Reinforcement Learning.➤ Management and development of <i>DeepCaption</i> open-source framework. |
| June 2017
October 2016 | Research Assistant at COMPLUTENSE UNIVERSITY, Madrid
<i>Artificial Intelligence Department, Computer Science and Eng. Faculty</i> <ul style="list-style-type: none">➤ Studied human traces recollection in web-based games.➤ Analysed and created data recollection techniques.➤ Assisted model training and learning techniques development used by other researchers.➤ Developed platform for centralised dataset creation. |

CONFERENCE PROCEEDINGS

- 2024 [Héctor Laria](#), Kai Wang, Joost van de Weijer, Bogdan Raducanu, Yaxing Wang. NeRF-Diffusion for 3D-Consistent Face Generation and Editing. **VISAPP**.
- 2022 [Héctor Laria](#), Yaxing Wang, Joost van de Weijer, Bogdan Raducanu. Transferring Unconditional to Conditional GANs with Hyper-Modulation. **CVPR**.
- 2021 Yaxing Wang, [Hector Laria Mantecon](#), Joost van de Weijer, Laura Lopez-Fuentes, Bogdan Raducanu. Transfer121 : Transfer Learning for Image-to-Image Translation from Small Datasets. **ICCV**.
- 2019 Alison Reboud, Ismail Harrando, Jorma Laaksonen, Danny Francis, Raphaël Troncy and [Héctor Laria Mantecón](#). Combining Textual and Visual Modeling for Predicting Media Memorability. **MediaEval**.
- 2017 [Laria Mantecón](#), [Héctor](#), Jorge Sánchez Cremades, José Miguel Tajuelo Garrigós, Jorge Vieira Luna, Carlos Cervigon Rückauer and Antonio A. Sánchez-Ruiz-Granados. A Pac-Man bot based on grammatical evolution. **CoSECivi**.

PUBLICATIONS

- 2019 [Mantecon](#), [Hector Laria](#); [Laaksonen](#), [Jorma](#); [Francis](#), [Danny](#); [Huet](#), [Benoit](#). PicSOM and EURECOM experiments in TRECVID 2019. **TRECVID, 23rd International Workshop on Video Retrieval Evaluation**.
- 2018 Mats Sjöberg, Hamed R. Tavakoli, Zhicun Xu, [Hector Laria Mantecon](#) and [Jorma Laaksonen](#). PicSOM experiments in TRECVID 2018. **TRECVID, 22nd International Workshop on Video Retrieval Evaluation**.

SCIENTIFIC SERVICE

Conference reviewer ICCV 2021, NeurIPS 2023, ICLR 2024, ICML 2024.

SKILLS

Frameworks	PyTorch, JAX, TensorFlow
Languages	Python, Modern C++, Rust, C, Javascript, Java
Technical	Linux administration, HPC administration, Deep Learning pipeline optimization
Soft	Intercultural communication, Teamwork, Listening, Presentation, Visual communication, Decision making, Patience

AWARDS

- 2020 Huawei Research Scholarship
- 2019 Master of Science, Honours distinction
- 2017 Best Bachelor Thesis of the Year award
- 2016 Collaboration Scholarship
Ministry of Education, Culture and Sport
Department of Artificial Intelligence, Computer Science and Eng. Faculty, Complutense University
Received a research collaboration scholarship as a 4/4 project review from the department.

LANGUAGES

English	● ● ● ● ●
Spanish	● ● ● ● ●
French	● ○ ○ ○ ○

INTERESTS AND ACTIVITIES

Technology, Open-Source, Programming, Artificial Intelligence, Generative Models
Fantasy, Philosophy, Sociology
Volleyball, Martial arts, Climbing, Puzzles