

## EDUCATION

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| (Exp.) July 2025 | <b>PhD. Computer Vision and Deep Learning</b> , Universitat Autònoma de Barcelona, Spain.<br>Thesis : (Provisional) “Generative Model Adaptation and Transferring for Small Domains”<br>Supervisor : Joost van de Weijer<br>Advisor : Bogdan Raducanu  |
| 2022             | <b>Cambridge ELLIS Machine Learning Summer School</b> , Cambridge University, United Kingdom.<br>European Laboratory for Learning and Intelligent Systems (ELLIS), Cambridge Unit.   |
| 2019             | <b>MSc. Machine Learning, Data Science and Artificial Intelligence</b> , <i>Honours</i> distinction, Aalto University, Finland.<br>Thesis : “Deep Reinforcement Sequence Learning for Visual Captioning”. <a href="#">Aaltodoc</a> .<br>Supervisor : Jorma Laaksonen   |
| 2017             | <b>BSc. Software Engineering</b> , Complutense University, Madrid.<br>Specialised in Artificial Intelligence<br>A+ grades and honours scholarships, these including Machine Learning and Evolutionary Computation.<br>Thesis : “Several evolutionary approaches to advanced bot development for Pac-Man”. <a href="#">Paper</a> .<br>Supervisor : Antonio A. Sánchez Ruiz-Granados<br>Advisor : Carlos Cervigon Ruckaüer |

## EXPERIENCE

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| July 2025      | <b>Doctoral candidate at COMPUTER VISION CENTER, Barcelona</b>  |
| September 2020 | <i>Learning and Machine Perception Team</i><br>Focus on efficient Generative Models under data-constrained scenarios. <ul style="list-style-type: none"><li>➤ Huawei research project <i>Deep Lifelong Learning in Open World Scenarios</i></li><li>➤ Audi research project <i>Transfer Learning for Conditional Video Generation</i></li><li>➤ HPC cluster administrator.</li></ul>  |
| August 2020    | <b>Project Employee at AALTO UNIVERSITY, Helsinki</b>   |
| November 2019  | <i>Extreme Classification Group (aka Rohit Babbar's group), School of Science</i><br>Room acoustics modelling with Machine Learning methods Project <ul style="list-style-type: none"><li>➤ Led implementation and model training efforts.</li><li>➤ Analysed and discussed state-of-the-art generative time-series models focused on audio data.</li><li>➤ Produced insightful visualisations for model behaviour debugging.</li></ul>   |
| August 2019    | <b>Research Assistant at AALTO UNIVERSITY, Helsinki</b>   |
| April 2018     | <i>Content-Based Image and Information Retrieval Group, School of Science</i><br>MeMAD Project, Video to Text (Horizon 2020 programme) <ul style="list-style-type: none"><li>➤ Took part in international research collaboration for accessing and using audiovisual content.</li><li>➤ Assisted on model training and feature creation.</li><li>➤ Contributed to periodic international meetings with expertise and new findings.</li></ul> TRECVID Workshop 2018 and 2019, National Institute of Standards and Technology (NIST). <ul style="list-style-type: none"><li>➤ Led efforts for 2019 edition challenge on Video to Text task.</li><li>➤ Analysed and evaluated new optimisation losses based on Reinforcement Learning.</li><li>➤ Management and development of <i>DeepCaption</i> open-source framework.</li></ul> |
| June 2017      | <b>Research Assistant at COMPLUTENSE UNIVERSITY, Madrid</b>   |
| October 2016   | <i>Artificial Intelligence Department, Computer Science and Eng. Faculty</i> <ul style="list-style-type: none"><li>➤ Studied human traces recollection in web-based games.</li><li>➤ Analysed and created data recollection techniques.</li><li>➤ Assisted model training and learning techniques development used by other researchers.</li><li>➤ Developed platform for centralised dataset creation.</li></ul>   |

## CONFERENCE PROCEEDINGS

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- 2025 [Héctor Laria](#), Alexandra Gomez-Villa, Jiang Qin, Muhammad Atif Butt, Bogdan Raducanu, Javier Vazquez-Corral, Joost van de Weijer, Kai Wang. Leveraging Semantic Attribute Binding for Free-Lunch Color Control in Diffusion Models. **Under review**.
- 2025 [Héctor Laria](#), Alex Gomez-Villa, Kai Wang, Bogdan Raducanu, Joost van de Weijer. Assessing Open-world Forgetting in Generative Image Model Customization. **Under review**.
- 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

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- 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

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**Conference reviewer** ICCV 2021, NeurIPS 2023, ICLR 2024, ICML 2024, NeurIPS 2024, ICLR 2025, ICML 2025, NeurIPS 2025.

## SKILLS

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<b>Frameworks</b>	PyTorch, JAX, TensorFlow
<b>Languages</b>	Python, Modern C++, Rust, C, Javascript, Java
<b>Technical</b>	Linux administration, HPC optimization, Software architecture
<b>Soft</b>	Intercultural communication, Teamwork, Listening, Presentation, Visual communication, Decision making, Patience

## AWARDS

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- 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

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English	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Spanish	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Catalan	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
French	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## VOLUNTEERING

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- › HPC lab administrator
- › Student community service
- › Conference reviewer