

DUSTIN CARRIÓN - OJEDA

✉ dustin.carrion@gmail.com | 🌐 Personal Website | 📄 Google Scholar | 👤 DustinCarrion | 🌐 dustin-carrion

EDUCATION

Technical University of Darmstadt | Darmstadt, Germany

October 2022 – July 2027 (expected)

Ph.D. in Computer Vision

Université Paris-Saclay | Orsay, France

September 2021 – September 2022

M.Sc. in Artificial Intelligence

GPA: 17.9/20 (Highest Honors / Mention Très Bien)

Yachay Tech University | San Miguel de Urcuquí, Ecuador

October 2015 – September 2020

B.Eng. in Information Technology

GPA: 9.6/10 (Magna Cum Laude)

EXPERIENCE

Research Assistant

October 2022 – Present

Technical University of Darmstadt and hessian.AI

Darmstadt, Germany

- Develop efficient computer vision models for few-shot classification and segmentation and multimodal action recognition
- Study robustness under limited annotations, compute, memory, and sensor availability

Artificial Intelligence Research Intern

March 2022 – September 2022

Laboratoire Interdisciplinaire des Sciences du Numérique (LISN)

Gif-sur-Yvette, France

- Co-organized the NeurIPS 2022 Cross-Domain MetaDL Competition for any-way, any-shot classification across 10 domains
- Contributed to Meta-Album, which standardizes 40 image datasets from 10 domains for cross-domain few-shot learning
- Analyzed and benchmarked training-from-scratch, fine-tuning, and episodic meta-learning baselines

Junior Researcher

February 2020 – May 2022

Yachay Scientific Computing Group

San Miguel de Urcuquí, Ecuador

- Investigated EEG biometric systems across recording duration, wavelet features, channel selection, and classifier choice
- Developed EBAPy, a Python framework for reproducible EEG preprocessing, feature extraction, model selection, and evaluation
- Contributed to RADENN, a domain-specific language built on Keras and TensorFlow for rapid neural-network prototyping

Backend Tech Lead

June 2020 – July 2021

Exmer Dev

Loja, Ecuador

- Led backend development of a CRM system using Spring Boot, NestJS, and Angular
- Designed and deployed microservices with Docker and AWS
- Managed databases and production infrastructure

Artificial Intelligence Research Assistant

June 2019 – July 2019

Coordination of Computational Sciences of INAOE

Puebla, Mexico

- Processed EEG signals and extracted features for biometric identification experiments
- Developed and evaluated an EEG-based user identification system

PUBLICATIONS

* Equal contribution.

- Carrión-Ojeda, D., & Schaub-Meyer, S. (2026). Lightweight few-shot classification and segmentation via sparse prototype matching. *Manuscript under review*.
- Machnio, J., Carrión-Ojeda, D., Schaub-Meyer, S., Nielsen, M., & Ghazi, M. (2026). ALPS: Active learning phase scheduler for schedule-consistent acquisition. *Manuscript under review*.
- Carrión-Ojeda, D. *, Santos-Villafranca, M. *, Pérez-Yus, A., Bermúdez-Cameo, J., Guerrero, J. J., & Schaub-Meyer, S. (2026). Multimodal knowledge distillation for egocentric action recognition robust to missing modalities. In *Proceedings of the IEEE International Conference on Robotics and Automation (ICRA)*, to appear. Also presented at the *A2A-MML Workshop at CVPR 2026*.
- Carrión-Ojeda, D., Roth, S., & Schaub-Meyer, S. (2025). Efficient masked attention transformer for few-shot classification and segmentation. In *Proceedings of the German Conference on Pattern Recognition (GCPR)* (pp. 267–283). Also presented at the *LIMIT Workshop at ICCV 2025*.
- Carrión-Ojeda, D., Martínez-Arias, P., Fonseca-Delgado, R., Pineda, I., & Mejía-Vallejo, H. (2024). Evaluation of features and channels of electroencephalographic signals for biometric systems. *EURASIP Journal on Advances in Signal Processing*, 2024(1), Article 58.
- Pineda, I., Carrión-Ojeda, D., & Fonseca-Delgado, R. (2023). RADENN: A domain-specific language for the rapid development of neural networks. *IEEE Access*, 11, 86727–86738.
- Carrión-Ojeda, D., Alam, M., Escalera, S., Farahat, A., Ghosh, D., Gonzalez Diaz, T., Gupta, C., Guyon, I., Ky, J. R., Lee, X. Y., Liu, X., Mohr, F., Nguyen, M. H., Pintelas, E., Roth, S., Schaub-Meyer, S., Sun, H., Ullah, I., Vanschoren, J., Vidyaratne, L., Wu, J., & Yin, X. (2022). NeurIPS'22 Cross-Domain MetaDL Challenge: Results and lessons learned. In *Proceedings of the NeurIPS 2022 Competitions Track* (PMLR, Vol. 220, pp. 50–72). Also presented at the *LXCV Workshop at ICCV 2023*.
- Ullah, I. *, Carrión-Ojeda, D. *, Escalera, S., Guyon, I., Huisman, M., Mohr, F., van Rijn, J. N., Sun, H., Vanschoren, J., & Vu, P. A. (2022). Meta-Album: Multi-domain meta-dataset for few-shot image classification. In *NeurIPS 2022 Datasets and Benchmarks Track*.

- **Carrión-Ojeda, D.**, Chen, H., El Baz, A., Escalera, S., Guan, C., Guyon, I., Ullah, I., Wang, X., & Zhu, W. (2022). NeurIPS'22 Cross-Domain MetaDL Competition: Design and baseline results. In *Proceedings of the ECML/PKDD Workshop on Meta-Knowledge Transfer* (PMLR, Vol. 191, pp. 24–37).
- **Carrión-Ojeda, D.**, Iza, C., & Aguilar-Igartua, M. (2021). Performance evaluation of dissemination protocols over vehicular networks for an automatic speed fine system. *IEEE Access*, 9, 103244–103257.
- **Carrión-Ojeda, D.**, Martínez-Arias, P., Fonseca-Delgado, R., & Pineda, I. (2021). EBAPy: A Python framework for analyzing the factors that have an influence in the performance of EEG-based applications. *Software Impacts*, 8, Article 100062.
- **Carrión-Ojeda, D.**, Fonseca-Delgado, R., & Pineda, I. (2021). Analysis of factors that influence the performance of biometric systems based on EEG signals. *Expert Systems with Applications*, 165, Article 113967. Also presented at the *LXAI Workshop at NeurIPS 2020*.
- **Carrión-Ojeda, D.**, Mejía-Vallejo, H., Fonseca-Delgado, R., Gómez-Gil, P., & Ramírez-Cortés, J. M. (2019). A method for studying how much time of EEG recording is needed to have a good user identification. In *Proceedings of the IEEE Latin American Conference on Computational Intelligence* (pp. 1–6). Also presented at the *LXAI Workshop at NeurIPS 2019*.
- Fonseca-Delgado, R., Gómez-Gil, P., Ramírez-Cortés, J. M., & **Carrión-Ojeda, D.** (2019). Reconocimiento de patrones. In *El reconocimiento de patrones y su aplicación a las señales digitales* (1st ed., chap. 2, pp. 15–40). Academia Mexicana de Computación.

HONORS AND AWARDS

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| • Labex DigiCosme Scholarship, Université Paris-Saclay, France | 2021 |
| • Undergraduate Excellence Scholarship, IFTH, Ecuador | 2015–2020 |

LANGUAGES

Spanish (Native)
 English (Advanced - C1)
 German (Intermediate - B1)
 French (Beginner - A1)