




Alejandro Pardo

PhD Candidate in Computer Vision

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Professional Experience

Research Scientist Intern

San Jose, CA

Adobe Research

Jun 2023 - Sep 2023

- * Worked research on natural language-based video editing, enabling users to edit timelines through simple instructions—helping democratize video editing for non-experts and users with limited accessibility.
- * Tackled key challenges in multimodal reasoning, such as aligning natural language instructions with complex visual sequences and scaling large language models to understand and manipulate timeline data structures.
- * Developed the “Timeline Assembler,” a generative system that outperformed GPT-4o in executing timeline edits across novel datasets we created for evaluation.
- * Designed a scalable training framework that uses no human labels by automatically generating rich training data with paired visual edits and instructions—improving the model’s usability and generalization.
- * Internship led to a first-author workshop paper and a co-authored main conference paper accepted at NeurIPS 2024.

Research Scientist Intern

Munich, Germany

Intel Labs

Aug 2022 - Nov 2022

- * Explored strategies for weakly-supervised segmentation using vision-language models and human-provided referring expressions, with only image-level labels as supervision.
- * Designed and tested multiple training setups and architectures to bridge the gap between coarse supervision and dense prediction.
- * Gained deep insights into the limitations of vision-language models for segmentation tasks through extensive experimentation with weak supervision techniques.
- * Additionally collaborated with another team on a benchmark for test-time adaptation under compute constraints, which contributed to a separate publication at ICML 2024.

Education

Ph.D. in Electrical Engineering

Thuwal, Saudi Arabia

KAUST

2019 - 2025

Research Focus: Computer Vision for Video Editing Assistance. Developed algorithms to support various stages of the video editing pipeline—such as cutting, stitching, and generating transitions from text prompts—aimed at empowering editors with AI-driven tools.

M.S. in Biomedical Engineering

Bogotá, Colombia

Universidad de los Andes

2017 - 2018

Thesis: Budget-Aware Object Detection. Proposed an active learning method for training object detectors under limited annotation budgets by dynamically selecting both the images and types of labels to annotate during training.

B.S. in Electronic Engineering

Bogotá, Colombia

Universidad de los Andes

2010 - 2016

Thesis: Facial Expression Recognition Using RGB-D Images. Designed a vision system that combines RGB and depth to improve facial expression recognition in low-light or visually ambiguous environments.

Skills

Programming and software skills

Python, PyTorch, NumPy, OpenCV, Git, Bash, SLURM, Hugging Face, Docker, Jupyter, ffmpeg

Machine Learning:

Deep Learning, Diffusion Models, Vision-Language Models, Transformers, CNNs, Multimodal Learning

Computer Vision:

Video Understanding, Video Editing AI, Weak Supervision, Segmentation, Object Detection

Generative Models:

Text-to-Video, Text-to-Image, Score-based Models, Large Language Models

Soft Skills:

Scientific Writing, Collaboration, Mentorship, Presentations, Communication

Academic Experience

Attendee

ICVSS Summer School

Sicily

2024

Attendee

ELLIS Winter School

Amsterdam

2024

Co-organizer and PR Chair

CVEU Workshop, ICCV

Paris

2021

Co-organizer and Web Chair

LatinX in AI @ CVPR

Virtual

2021

Talks

Invited Speaker - Biomedical Computer Vision Lab

Universidad de los Andes

Presented work on match-cut generation with computer video diffusion models.

Bogota, Colombia

Jan 2025

Invited Speaker - Perceiving Systems Lab

Max Planck Institute

Presented work on video editing with computer vision models.

Tübingen, Germany

Sep 2022

Honors and Awards

Outstanding Reviewer Awards

ECCV-2022, CVPR-2020, and BMVC-2020

Recognized for detailed and constructive reviews by three top-tier computer vision conferences.

Best Paper Award

LatinX in AI @ CVPR-2021

Awarded for co-authoring the best paper at the LatinX in AI Workshop, recognizing impactful research in the field of AI.

KAUST Fellowship for PhD Studies

2019

Full PhD scholarship awarded to top international candidates for academic excellence and research potential.

SELECTED PUBLICATIONS

1. **A. Pardo**, F. Pizzati, T. Zhang, A. Pondaven, P. Torr, J. C. Perez, B. Ghanem. "MatchDiffusion: Training-free Generation of Match-cuts" ICCV, 2025.
2. **A. Pardo**, J. Wang, B. Ghanem, J. Sivic, B. Russell, F. Caba. "Generative Timelines for Instructed Visual Assembly" NeurIPS Workshop on Video-Language Models, 2024.
3. **A. Pardo**, F. Caba, J. L. Alcázar, A. Thabet, B. Ghanem. "Learning to Cut by Watching Movies" ICCV 2021.
4. **A. Pardo**, F. Caba, J. L. Alcázar, A. Thabet, B. Ghanem. "MovieCuts: A Dataset and Benchmark for Cut-Type Recognition" ECCV 2022.
5. M. Ramazanova, **A. Pardo**, B. Ghanem, M. Alfara. "Test-Time Adaptation for Combating Missing Modalities in Egocentric Videos" ICLR 2025.
6. J. C. Pérez, **A. Pardo**, M. Soldan, H. Itani, J. Leon-Alcazar, B. Ghanem. "Compressed-Language Models for Understanding Compressed File Formats: a JPEG Exploration" Under Review, 2024.
7. M. Soldan, **A. Pardo**, J. L. Alcázar, F. Caba, C. Zhao, S. Giancola, B. Ghanem. "MAD: A Scalable Dataset for Language Grounding in Videos from Movie Audio Descriptions" CVPR 2022.
8. M. Alfara, H. Itani, **A. Pardo**, M. Ramazanova, J. C. Perez, M. Müller. "Evaluation of Test-Time Adaptation Under Computational Time Constraints" ICML 2024.
9. D. Argaw, M. Soldan, **A. Pardo**, C. Zhao, F. Caba Heilbron, J. S. Chung. "Towards Automated Movie Trailer Generation" CVPR 2024.
10. **A. Pardo**, M. Xu, A. Thabet, P. Arbelaez, B. Ghanem. "BAOD: Budget-Aware Object Detection" CVPRw, 2020.