

Alejandro Pardo

PHD CANDIDATE · COMPUTER VISION

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Education

King Abdullah University of Science and Technology - KAUST

PH.D. IN ELECTRICAL ENGINEERING

Thuwal, Saudi Arabia - 23955-6900

2019 - Now

Universidad de los Andes

M.S. IN BIOMEDICAL ENGINEERING

Bogotá, Colombia - 111711

2017 - 2018

Universidad de los Andes

B.S. IN BIOMEDICAL ENGINEERING

Bogotá, Colombia - 111711

2010 - 2016

B.S. IN ELECTRICAL ENGINEERING

2010 - 2016

Publication and Research Experience

Learning to Cut by Watching Movies

INTERNATIONAL CONFERENCE ON COMPUTER VISION (ICCV) - 2021

- **Publication:** *Alejandro Pardo*, Fabian Caba Heilbron, Juan León Alcázar, Ali Thabet, & Bernard Ghanem. (2021). "Learning to Cut by Watching Movies." On ICCV, 2021.
- **Description:** We propose a new method and pipeline to create video editing cuts recommendations. Our method utilizes the information of already edited content to learn patterns between plausible and not plausible cuts via contrastive learning.

MovieCuts: A New Dataset and Benchmark for Cut Type Recognition

ARXIV PREPRINT

- **Publication:** *Alejandro Pardo*, Fabian Caba Heilbron, Juan León Alcázar, Ali Thabet, & Bernard Ghanem. (2021). "MovieCuts: A New Dataset and Benchmark for Cut Type Recognition." On ArXiv, 2021.
- **Description:** Understanding movies and their structural patterns is a crucial task to decode the craft of video editing. We construct a large-scale dataset called MovieCuts, which contains more than 170K video clips labeled among ten cut types.

BAOD: Budget-Aware Object Detection

LATINX IN AI WORKSHOP AT CVPR - 2021 [BEST PAPER AWARD]

- **Publication:** *Alejandro Pardo*, Xu Meng Meng, Ali Thabet, Pablo Arbelaez, & Bernard Ghanem. (2021). BAOD: Budget-Aware Object Detection. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops (pp. 1247-1256).
- **Description:** We study the problem of object detection from a novel perspective in which annotation budget constraints are taken into consideration. When provided with a fixed budget, we propose a strategy for building a diverse and informative dataset that can be used to optimally train a hybrid supervised (weakly and fully supervision combined) detector.

RefineLoc: Iterative Refinement for Weakly-Supervised Action Localization

WINTER CONFERENCE ON APPLICATIONS OF COMPUTER VISION (WACV) - 2021.

- **Publication:** *Alejandro Pardo*, Humam Alwassel, Fabian Caba Heilbron, Ali Thabet, & Bernard Ghanem. (2021). RefineLoc: Iterative Refinement for Weakly-Supervised Action Localization. In Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) (pp. 3319-3328).
- **Description:** RefineLoc is a weakly-supervised temporal action localization method. RefineLoc uses an iterative refinement approach by estimating and training on snippet-level pseudo ground truth at every iteration. Additionally, our iterative refinement process significantly improves the performance of two state-of-the-art methods, setting a new state-of-the-art on THUMOS14.

Professional Experience

AI for Creative Video Editing and Understanding (CVEU) Workshop

CO-ORGANIZER AND PR CHAIR

ICCV-2021

- Co-organizer of the first CVEU Workshop at ICVW2021. I worked as Web and Public Relations Chair as main role, while supported the other tasks like call for papers, industry speakers invitations, among others.

LatinX in AI Workshop

CO-ORGANIZER AND WEB CHAIR

CVPR-2021

- Co-organizer and web chair of the first LatinX in AI workshop at CVPR.

Academic Experience

King Abdullad University of Science and Technology (KAUST)

Thuwal, Saudi Arabia

RESEARCH VISITING STUDENT

2018

- Visiting Student at the Image and Video Understanding Lab (IVUL) under the advice of Professor Bernard Ghanem where I developed part of my master thesis project. The work was eventually accepted to a CVPR Workshop where it was honored with the best paper award.

Universidad de los Andes

Bogota, Colombia

RESEARCH ASSISTANT

2017

- Research assistant under the supervision of Pablo Arbelaez at the Biomedical Computer Vision (BCV) Group.

Universidad de los Andes

Bogota, Colombia

TEACHING ASSISTANT

2014-2015

- Teaching Assistant for the course Science, Technology and Gender, by Professor Alba Avila.

Universidad de los Andes

Bogota, Colombia

TEACHING ASSISTANT

2013

- Teaching Assistant for the course Digital Electronics, by Professor Antonio Garcia Rozo.

Honors & Awards

2021 **First Place**, Best Paper Award - LatinX in AI @ CVPR 2021

2019 **Awarded**, KAUST Fellowship for PhD Studies