# Luis Alejandro Pardo González

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## EDUCATION

**Ph.D. Electrical Engineering,** King Abdullah University of Science and Technology (KAUST), Saudi Arabia | Fall 2019- Present | Image and Video Understanding Lab (IVUL)
Research Advisor: Prof. Bernard Ghanem.
Relevant Research Projects: Learning to Cut by Watching Movies at ICCV 2021.

**M.S. Biomedical Engineering,** University of the Andes, Colombia | Fall 2017 – Spring 2018 | Biomedical Computer Vision Lab
Research Advisor: Prof. Pablo Arbeláez.
Relevant Coursework: Introduction to Computer Vision, Special topics in Computer Vision, Optimization.
Research Projects: Object Localization in Images using Hybrid Supervised Learning, 3D vision for aircraft refueling.

**B.Sc. in Electronic Engineering,** University of the Andes, Colombia | Fall 2011- Spring 2015.
**B.Sc. in Biomedical Engineering,** University of the Andes, Colombia | Fall 2012- Spring 2016.

## PUBLICATIONS

**Internation Conference of Computer Vision (ICCV) 2021**. "Learning to Cut by Watching Movies." Alejandro Pardo, Fabian Caba, Juan Carlos León, Ali Thabet, Bernard Ghanem.

**LatinX in Ai Workshop at CVPR2021. "**BAOD: Budget Aware Object Detection" [Best Paper Award]. Alejandro Pardo*, MengMeng Xu*, Ali Thabet, Pablo Arbeláez, Bernard Ghanem.

**Winter Conference on Applications of Computer Vision (WACV) 2021**. "*Refineloc: Iterative refinement for weakly-supervised action localization.*" Alejandro Pardo, Humam Alwassel, Fabian Caba, Ali Thabet, Bernard Ghanem.

## RESEARCH PROJECTS

**MovieCuts: A New Dataset and Benchmark for Cut Type Recognition. 2021.** 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.

**Learning to Cut by Watching Movies*. 2020.*** 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.

**Master of Science Thesis: "*BAOD: Budget Aware Object Detection*". 2018.** 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. 2019.** 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.

**Bachelor of Science Thesis: "*Emotion recognition through facial expressions by using RGB-D images*".** We study the problem of emotion recognition through facial expressions using deep learning. Our method recognizes facial expressions from RGB images and enhances the predictions using the Depth Channel. We show the success of the method through a real-time emotion recognition system using an RGB-D camera.

## PROFESSIONAL EXPERIENCE

**AI for Video Editing and Understanding Workshop at ICCV2021. 2021.**
Position: Co-organizer, Web Chair.
Year: 2021.

**LatinX in AI Workshop at CVPR2021. June 2021.**
Position: Web Chair.

**King Abdullah University of Science and Technology (KAUST). Apr-Sept, 2018.**
Position: Visiting Student Image and Video Understanding Lab (IVUL).

**University of the Andes. 2017**
Position: Research Assistant of 3D vision for aircraft refueling.

**University of the Andes. 2014, 2015.**
Position: Science, Technology and Gender. Teaching Assistant.

**University of the Andes. 2013.**
Position: Digitial Electronics. Teaching Assistant.