

# ANDREU GIRBAU

## *PhD in Computer Vision*

Web: <https://agirbau.github.io/>

 <https://github.com/agirbau>

## EDUCATION

2017-2021: **PhD in Computer Vision**  
by la UPC & AutomaticTV  
(Mediapro), Barcelona

2015-2017: Master in Electrical  
Engineering, Multimedia  
specialisation at UPC, Barcelona

2010-2015: Electrical Engineering,  
Multimedia specialisation at UPC,  
Barcelona

## RESEARCH INTERESTS

Computer Vision using Deep Learning  
and Machine learning techniques  
Multiple Object Tracking, object  
representation  
Long-term analysis of video and  
statistics extraction  
Event cameras

## SKILLS

Most skilled in **Python**  
Libraries I like: **Pytorch, Tensorflow,**  
**Keras, Pandas, OpenCV, Sklearn,**  
**FiftyOne, Weights&Biases, Jupyter**  
Preferred OS: **Linux**  
Soft: Vector-graphics, Project  
management, Agile, Problem solving

## LANGUAGES

Spanish: Native  
Catalan: Native  
English: High (TOEIC - 965/990)  
Japanese: Medium (N3)

## CONTACT DETAILS

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Twitter: [AndreuGirbau](https://twitter.com/AndreuGirbau)  
[Google scholar link](#)

## PROFESSIONAL CAREER

### Post-doctoral Researcher

*National Institute of Informatics, Tokyo ([Satoh-lab](#))*

April 2023 - Current

I'm currently conducting research on **event cameras**, focusing both in fundamental research and advanced algorithms.

April 2021 - April 2023

I conducted research using computer vision techniques, mainly multiple object tracking, face detection, and classification to **analyze Japanese politicians' portrayal on public and private TV channels** over the past 20 years in a multidisciplinary team of political and computer scientists.

General

Area Chair for MMM2025

Reviewer for CVPR21-24, ICCV21/23, ECCV22, ACCV22, ACM22, TIST (Journal)

### PhD candidate | Deep Learning Engineer

*UPC and AutomaticTV (Mediapro), Barcelona*

September 2017-March 2021

I pursued my PhD in AutomaticTV, a company devoted to **automatic productions of sports**, and the Polytechnic University of Catalonia, under the supervision of Professors Ferran Marqués and Xavier Giró-i-Nieto, and Dr. Ignasi Rius.

I was in charge of transfer state-of-the-art knowledge, introducing Deep Learning techniques to the team, working on **object detection, segmentation, and multiple object tracking**, and was **in charge of the Deep Learning pipeline**, from generating and maintaining the dataset to training and delivering the models to the production team.

### Researcher Intern

*National Institute of Informatics, Tokyo ([Satoh-lab](#))*

March 2017 - August 2017

I worked on a project using **Multiple Object Tracking and Segmentation** for query expansion for **instance retrieval**.

## RELEVANT PUBLICATIONS

Event-based High-speed ball detection in Sports Videos [Co-author], **ACM Multimedia23 Sports workshop**

Face Detection, Tracking, and Classification from Large-Scale News Archives for Analysis of Key Political Figures [Author], (Journal) **Political Analysis**

Multiple Object Tracking from appearance by hierarchically clustering tracklets, [Author], Spotlight in **BMVC22**

Multiple object tracking with mixture density networks for trajectory estimation [Author], Oral in **CVPR21 RVSU workshop**

RVOS: End-to-end recurrent network for video object segmentation, [Co-author], Poster in **CVPR19**

Tracked Instance Search, [Author], Poster in **ICASSP18**

## MISCELLANEOUS

- Course delegate during University.
- Member of ICT Grade Revision and Reorganisation commission.
- Member of ETSETB school council.
- Extra in Game of Thrones (Season 6)