

ANDREU GIRBAU

PhD in Computer Vision

<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

Email: andreu.girbau.jp@gmail.com
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Twitter: [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

Reviewer for CVPR21-23, ICCV21/23, ECCV22, ACCV22, ACMMM22

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

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

KAO: Key Actor Detection for TV News [Author], **PolMethAsia22**

Longterm analysis of the appearance of Japanese politicians on TV news: Face detection and tracking using deep learning techniques, [Co-author], in **ICA22**

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)