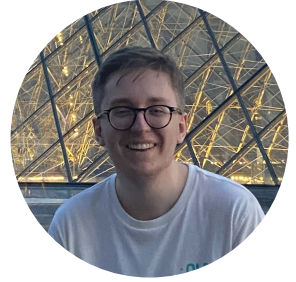# Javier **Tirado-Garín**

PhD Student · Robotics, Computer Vision, and Artificial Intelligence Group · Universidad de Zaragoza (Spain)

✉ jtiradogarin@gmail.com | 🏠 javrtg.github.io | ⬡ javrtg | in Javier Tirado Garín

## **Edu**cation

### **PhD Student in Computer Vision**

Universidad de Zaragoza                                                                                                      *Jan. 2023 - Now*

- 3D perception with Deep Learning and Geometry
- Supervised by Prof. Javier Civera in the Robotics, Computer Vision, and Artificial Intelligence Group

### **Double MSc in Industrial and Electronics Engineering**

Universidad de Zaragoza                                                                                                      *2022*

- Advanced training in Electrical, Mechanical and Electronics Engineering
- GPA: 9.2 out of 10.0 - Ranked 1 out of 96 students

### **BSc in Industrial Technology Engineering**

Universidad de Zaragoza                                                                                                      *2019*

- Training in Electrical and Mechanical Engineering - Strong background in Algebra and Calculus
- GPA: 8.6 out of 10.0 - Ranked 1 out of 127 students

## **Res**earch Experience

### **Universidad de Zaragoza**

Research Assistant - Computer Vision                                                                          *Nov. 2021 - Nov. 2022*

- Quantification of the spatial uncertainty of deep local features

### **RoPeRT, I3A**

Research Intern - Computer Vision                                                                              *Feb. 2021 - July 2021*

- Continuous-time 6-DoF object tracking with RGB-D sensors

## **Pub**lications

AnyCalib: On-Manifold Learning for Model-Agnostic Single-View Camera Calibration
> Javier Tirado, Javier Civera, *Preprint*

From Correspondences to Pose: Non-minimal Certifiably Optimal Relative Pose without Disambiguation
> Javier Tirado, Javier Civera, *Computer Vision and Pattern Recognition (CVPR), 2024 - **Highlight (top 2.8%)***

DAC: Detector-Agnostic Spatial Covariances for Deep Local Features
> Javier Tirado, Frederik Warburg, Javier Civera, *International Conference on 3D Vision (3DV), 2024*

Jacobian Computation for Cumulative B-Splines on SE(3) and App. to Continuous-Time Object Tracking
> Javier Tirado and Javier Civera, *IEEE Robotics and Automation Letters (RA-L), 2022 - Presented at IEEE RSJ IROS, 2022*

## **Skil**ls

| | |
|---|---|
| **Programming** | Python (Numpy, Pytorch, OpenCV, Numba...), C++, LaTeX and MATLAB |
| **Tools** | Blender, Inkscape |
| **Languages** | English and Spanish (Native) |

## **Hon**ors & Awards

| | | |
|---|---|---|
| 2024 | **Best Presentation Award,** | at the International Computer Vision Summer School (ICVSS) |
| 2023 | **Double Extraordinary Master's Degree Award,** | Awarded by the University of Zaragoza |
| 2022 | **FPU National Scholarship,** | Funded by the Spanish Ministry of Universities |
| 2022 | **1st prize Master thesis award in Engineering,** | Awarded by Cátedra Banco Santander |
| 2020 | **Extraordinary Bachelor's Degree Award,** | Awarded by the University of Zaragoza |
| 2018 | **Collaboration Research Scholarship,** | Funded by the Spanish Ministry for Education and Science |