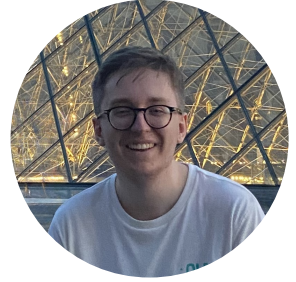


Javier Tirado Garín

PHD STUDENT · ROBOTICS, COMPUTER VISION, AND ARTIFICIAL INTELLIGENCE GROUP · UNIVERSIDAD DE ZARAGOZA (SPAIN)

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Education

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

Research 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

Publications

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

Skills

Programming Python (Numpy, Pytorch, OpenCV, Numba...), C++, LaTeX and MATLAB

Tools Blender, Inkscape

Languages English and Spanish (Native)

Honors & 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