Ricardo García Pinel

PhD Candidate in Computer Vision and Robotics

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Education —		
PhD in Computer Vision and Robotics, École Normale Supérieure - PSL	Paris, France	2021 - 2025
Master in Electrical Engineering (2nd Year), Erasmus - Technical University of Munich	Munich, Germany	2016 - 2017
Master in Electrical Engineering (1st Year), Technical University of Madrid	Madrid, Spain	2015 - 2016
Bachelor in Electrical Engineering, Technical University of Madrid	Madrid, Spain	2011 - 2015

Professional Experience

PhD Candidate

Paris, France Sep. 2021 - Jul. 2025

Inria, Willow Team

- Working on vision-and-language robotic manipulation research projects under the supervision of Cordelia Schmid and Ivan Laptev.
- Development of simulation environments and robot tools to enable Willow team real robot experimental research on a bimanual UR5 robotic platform.
- Collaborated with 2 engineers, 3 PhD students and 2 PostDocs.

Robotics & Computer Vision Research Engineer

Grenoble and Paris, France

Inria, Thoth Team & Willow Team

- Jul. 2019 Jul. 2021
- Worked on a research project about robotic obstacle representations based on point clouds for neural motion planning.
- Developed and published a highly cited new semantic segmentation framework based on ViT transformers (Segmenter).
- Systems administration, maintenance and installation of the GPU cluster (comprising 25 nodes and 66 GPUs), RAID storage system and desktop machines of the team.

Robotics Research Intern Munich, Germany

German Aerospace Center

Teaching

Reviewer

Other Services

Oct. 2017 - May 2018

- Developed a multi-robot algorithm for exploration of physical processes based on Deep Reinforcement Learning using the Python modules: Numpy, OpenCV, Matplotlib and Pytorch.

- Validation o	f the algorithm on real robotic hardware (UAVs swarm) using ROS.		
	Publications —		
Towards Ge Ricardo Garcia*	eneralizable Vision-Language Robotic Manipulation: A Benchmark ar , Shizhe Chen*, Cordelia Schmid	nd LLM-guided 3D Policy *Equal Contribution	ICRA 2025
	D Point Clouds for Language-Guided Robotic Manipulation icardo Garcia*, Cordelia Schmid, Ivan Laptev	*Equal Contribution	CoRL 2023
	al Sim-to-Real Transfer for Robotic Manipulation Robin Strudel, Shizhe Chen, Etienne Arlaud, Ivan Laptev, Cordelia Schmid		IROS 2023
	driven history-aware policies for robotic manipulations ur, Shizhe Chen, Ricardo Garcia, Makarand Tapaswi, Ivan Laptev, Cordelia Schmid		CoRL 2022 - Ora
	Transformer for semantic segmentation Ricardo Garcia*, Ivan Laptev, Cordelia Schmid	*Equal Contribution	ICCV 2021
	ostacle Representations for Neural Motion Planning icardo Garcia, Justin Carpentier, Jean Paul Laumond, Ivan Laptev, Cordelia Schmid		CoRL 2020
DeepIG: Mu Alberto Viseras,	Ilti-Robot Information Gathering with Deep Reinforcement Learning Ricardo Garcia		RA-L 2019
	Skills —		
Programmi	ng Python, Java, Javascript Pytorch, ROS, Matplotlib, Numpy Bash, SQL,	Front-end dev.	
Others	Simulation frameworks: PyBullet and MuJoCo Benchmarks: RLBench LLMs, VLMs, 3D point cloud, image segmentation		
Languages	Spanish: Mother Tongue English: Bilingual Proficiency French: Advanced Level - C1 German: Limited Level - B1		
	Others —		
Awards	National Award to "Telecommunication Engineer with the best acad	emic trajectory in Spain"	2018

Generalization in Robotics Manipulation Workshop and Challenges - Organizer Shizhe Chen, Ricardo Garcia Pinel, Jiafei Duan, Dieter Fox, Cordelia Schmid, Ivan Laptev, Sami Haddadin

ACCV 2024, CoRL 2024, ECCV 2024, CVPR 2024, ICCV 2023, IROS 2023, CVPR 2023, RA-L, IJCV and TKDE

Object Recognition and Computer Vision, Teacher Assistant - Master level - ENS Paris - 50h

CVPR 2025

2022 - 2025