

Jesús

BUJALANCE MARTIN



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29 April 1996



European driving  
licence B



Spanish



www.linkedin.com/in/  
jesus-bujalance-martin



jesus-bujalance.  
vercel.app

## Languages

Spanish fluent

French fluent

English C2

113/120 TOEFL IBT (2017)

Mandarin B2

292/300 HSK 3 (2018)

## Hobbies

Sports basketball, judo

Music guitar, salsa

Cooking

Android development

## PhD candidate - engineering

### Experience

2020-

**PhD: Research Scientist & Teaching Assistant at Mines Paris - PSL**

Deep reinforcement learning and learning from demonstrations for robot manipulators

Apr-Sep 2019

**Intern at ARMINES Center for Robotics**

Paris

Deep learning for collaborative robotics: few-shot gesture recognition and continuous motion control

### Education

2018-2019

**Paris-Saclay University - ENS Cachan - MSc MVA**

Paris

Computer Vision | Image processing | Deep Learning

Feb-Jul 2018

**Shanghai Jiao Tong University - Semester Exchange**

Shanghai

Control theory | Mobile Robotics

2016-2019

**IP Paris - Télécom ParisTech - Engineering cycle**

Paris

Signal and Image processing | Machine Learning

2014-2016

**Preparatory classes for engineering schools**

Lyon

### Skills

Robotics

ROS

CoppeliaSim

Bullet

OMPL

CloudCompare

Deep Learning

PyTorch

Scikit-learn

Keras

JAX

Ray

Other tools

Git

Docker

VirtualBox

GCP

Redis

Programming

Python

Linux

C

C++

Java

Matlab

Simulink

### Publications

- Jesus Bujalance Martin, Fabien Moutarde. **Reward Relabelling for combined Reinforcement and Imitation Learning on sparse-reward tasks.** Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2023.
- Dániel Horváth, Jesús Bujalance Martín, Ferenc Gábor Erdős, Zoltán Istenes, Fabien Moutarde. **HiER: Highlight Experience Replay and Easy2Hard Curriculum Learning for Boosting Off-Policy Reinforcement Learning Agents.**
- Jesus Bujalance Martin, Tao Yu, Fabien Moutarde. **Pre-trained Image Encoder for Data-Efficient Reinforcement Learning and Sim-to-Real transfer on Robotic-Manipulation tasks.** Workshop on Pre-training Robot Learning at Conference on Robot Learning (CoRL), 2022.
- Jesus Bujalance Martin, Raphaël Chekroun, Fabien Moutarde. **Learning from demonstrations with SACR2: Soft Actor-Critic with Reward Relabeling.** Deep RL Workshop at Conference on Neural Information Processing Systems (NeurIPS), 2021.
- Jesus Bujalance Martin, Fabien Moutarde. **Real-time gestural control of robot manipulator through Deep Learning human-pose inference.** International Conference on Computer Vision Systems (ICVS), 2019.