Jesús BUJALANCE MARTIN

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29 April 1996

European driving licence B

Spanish

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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

1. 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.

2. 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.**

3. 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.

4. 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.

5. 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.