



# Ariel Gjaci

PhD student in Robotics and Artificial Intelligence

## Certifications

- 2023 **1<sup>st</sup> Doctoral Summer School on Robotics and Intelligent Machines**  
*Scuola Superiore Sant'Anna*  
Learned and revised different topics related to robotics, i.e., ROS programming, sensor data acquisition with LabView, CAD design with PTC Creo, and Computer Vision algorithms. Worked on a team project involving the control of a 6-DOF manipulator to move a dice in the right position.
- 2023 **Topics in Modern Machine Learning (ModML)**  
*MaLGa*  
Attended lectures on modern Machine Learning topics: Statistical Learning Theory, Optimization, Sketching, Implicit Regularization, Reinforcement Learning, Machine Learning for Inverse Problems, Optimal Transport, Fairness, Learning in interpolation regimes, and Sampling as first-order optimization over a space of measures. Completed the exam involving the completion of 3 Colab Notebooks on 3 different topics.
- 2022 **Natural Language Processing with Classification and Vector Spaces**  
*Coursera*  
Learned some basic concepts of Natural Language Processing.
- 2021 **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization**  
*Coursera*  
Learned some basic optimization concepts of Neural Networks.

## Publications

- 2024 **Labeling Sentences with Symbolic and Deictic Gestures via Semantic Similarity**  
*Gjaci Ariel, Recchiuto Carmine Tommaso, and Sgorbissa Antonio*  
Submitted to 2024 IEEE International Conference on Robotics and Automation (ICRA 2024)
- 2022 **Towards culture-aware co-speech gestures for social robots**  
*Gjaci Ariel, Recchiuto Carmine Tommaso, and Sgorbissa Antonio*  
International Journal of Social Robotics
- 2022 **Culture Awareness in Intelligent Systems**  
*Gjaci Ariel, Oneto Luca, Recchiuto Carmine Tommaso, and Sgorbissa Antonio*  
Workshop on Artificial Intelligence and Robotics – AIRO 2022
- 2021 **A GAN-based Approach for Generating Culture-Aware Co-Speech Gestures**  
*Gjaci Ariel, Recchiuto Carmine Tommaso, and Sgorbissa Antonio*  
Workshop on Artificial Intelligence and Robotics – AIRO 2021