

EDUCATION

- Brown University** Providence, RI
Ph.D. in Computer Science, Advisor: George Konidakis 2019–Current
- Politecnico di Milano** Milan, Italy
M.S. in Computer Science, Graduation Grade: 110/110 *Cum Laude* 2016–2018
– Thesis: “A Variational Approach to Transfer Value Functions in Reinforcement Learning”.
Advisor: Marcello Restelli
- Universidad Simon Bolivar** Caracas, Venezuela
B.S. in Electronic Engineering, GPA: 4.9/5.0 (*Summa Cum Laude*) 2010–2016
– Thesis: “Implementation of algorithms and debugging for STMicroelectronics wearable platform (Desarrollo de algoritmos y depuración de la plataforma portable de STMicroelectronics)”.
Advisors: Daniele Caltabiano (ST Microelectronics), Giacomo Boracchi (Politecnico di Milano), Novel Certad (Universidad Simon Bolivar).

EXPERIENCE

- Politecnico di Milano** Milan, Italy
Research Fellow, AIRLab Fall 2018 - Summer 2019
– Vision-based Tracking algorithms for Intelligent Missiles
– Development of tracking algorithms for intelligent missiles simulation that target naval ships in order to enable research in optimal defense strategies computation
- Politecnico di Milano** Milan, Italy
Research Assistant, AIRLab Fall 2018
– Restructuring of the electronics of Differential Robot Platform for Autonomous Navigation Research
– Implementation of low-level controllers for motors and acquisitions of sensory information from LIDARs, sonars and stereocameras based on ROS
- ST Microelectronics** Agrate-Brianza, Italy
Research & Development Intern, Advanced Systems Technologies Group Feb 2015-Jul 2015
– Development of real-time algorithm to detect optimal time of image acquisition to improve image sharpness
– Improve transmission rate of the image acquisition system
– Debugged and fixed of power and image transmission of microcontroller-based board

PUBLICATIONS

- [1] A. Tirinzoni*, **R. Rodriguez-Sanchez***, and M. Restelli, “Transfer of value functions via variational methods”, in *Advances in Neural Information Processing Systems 31*, 2018 [acceptance rate: 21%].
- [2] **R. Rodriguez-Sanchez***, R. Patel*, and G. Konidakis, “On the relationship between structure in natural language and models of sequential decision processes”, *1st Language and Reinforcement Learning Workshop at International Conference in Machine Learning*, 2020.

TEACHING

- **Teaching Assistant** at Universidad Simon Bolivar Fall 2012-Winter 2013
Programming I (CI 2125):
— Taught weekly Laboratory Sessions. Graded 20% of the grade.

SKILLS

- **Programming Languages:** Embedded C/C++, Python, MATLAB, Java
- **Frameworks:** ROS, TensorFlow, PyTorch, OpenCV

LANGUAGES

- **Spanish**
- **English**
- **Italian**

SCHOLARSHIPS AND AWARDS

- MAECI (Italian Ministry of Foreign Affairs and International Cooperation) Scholarship covering Master's degree tuition and living expenses in Italy. 2017–2018
- Universidad Simon Bolivar “Exceptionally Good” Mention for Undergraduate Thesis 2015
- Universidad Simon Bolivar Top 30 Students across all majors 2016
- Universidad Simon Bolivar Best Electronic Engineering Student (Cohort 2010) 2012, 2014
- Universidad Simon Bolivar Top 10 Students of 2010 Cohort 2011