## Erwan Lecarpentier

## PhD

+336 38 38 63 71	Education	
erwanlecarpentier @mailbox.org erwanlecarpentier @github.io	PhD in Computer Science  ONERA (The French Aerospace Lab) and ISAE-SUPAERO (Institut Supérieur de l'Aéronautique et de l'Espace), Toulouse (France). Reinforcement Learning in Non-Stationary Markov Decision Processes, advised by Prof. Emmanuel Rachelson and Dr. Guillaume Infantes.	2016–2020
	Exchange year  Graduate student, University of Stuttgart (Germany).  Reinforcement Learning, Machine Learning, Robotics and Computer Vision.	2015–2016
	French engineering school (~ Master's degree)  ISAE-SUPAERO (Institut Supérieur de l'Aéronautique et de l'Espace),  ENSICA program, Toulouse (France).  Control Theory, Optimization, Statistic, Applied Mathematics,  Programming, Mechanical Engineering, Fluid Mechanics.	2013–2015
	French preparatory class Saint-Brieuc (France), A+. Leading to competitive exam for entry to Graduate Engineering Schools. Advanced theoretical Mathematics, Physics and Engineering Sciences.	2011–2013
	Baccalaureate  Lamballe (France), A+ with distinction.  Equivalent to A level, with specialization in Mathematics.	2009–2011
	Experience	
	Postdoc at REVA Team, Université de Toulouse (France). Solving Atari games with interpretable Cartesian Genetic Programming with Hervé Luga, Sylvain Cussat-Blanc, and Dennis G. Wilson.	2021-today
	Visiting PhD student at Brown University, Providence (USA). Research project in Lifelong Reinforcement Learning, with Prof. Michael L. Littman and PhD students David Abel, Kavosh Asadi, and, Yuu Jinnai.	2019 (4 months)
	Visiting graduate student at University of Stuttgart.  Research internship in Reinforcement Learning, with Dr. Marc Toussaint, MLR (Machine Learning & Robotics Lab).  Optimal control on a real-world robot; optimization using Reinforcement Learning algorithms (Policy Search, Bayesian Optimization, LSPI, etc.)	2016
	Research internship in Statistic, ENAC, Toulouse (France). Statistical modelling of the air-travel market and airline behavior.	<b>2015</b> (2 months)

Publications				
Lipschitz Lifelong Reinforcement Learning. 2021				
Erwan Lecarpentier, David Ab Rachelson, and Michael L. Lit AAAI, 2021.	el, Kavosh Asadi, Yuu Jinnai, Emmanuel tman.			
Non-Stationary Markov Decision Processes a Worst-Case Approach using Model-Based Reinforcement Learning.  Erwan Lecarpentier and Emmanuel Rachelson.  NeurlPS, 2019.				
Open Loop Execution of Tree	-Search Algorithms.	2018		
Erwan Lecarpentier, Guillaume Infantes, Charles Lesire, and Emmanuel Rachelson.  IJCAI, 2018.				
Empirical evaluation of a Q-L-Autonomous Soaring.	earning Algorithm for Model-free	2017		
Erwan Lecarpentier, Sebastiar Rachelson. <i>JFPDA</i> , 2017.	n Rapp, Marc Melo, and Emmanuel			
Teaching Experience	e			
Primary Instructor	Algorithms Complexity, ISAE-SUPAERO.  Python Programming, ISAE-SUPAERO.	2018-2019 2019		
Teaching Assistant	Reinforcement Learning, ISAE-SUPAERO. Machine Learning, ISAE-SUPAERO. Optimization, ISAE-SUPAERO. Graph Theory, ISAE-SUPAERO.	2021 2018-2019 2019		
Awards				
Artificielle)	n ISAE-SUPAERO sociation Française pour l'Intelligence	2020 2021		
Languages				
French English German (B1+)	Mother tongue Proficient working English Enthusiastic beginner			
Trivia				
Playing guitar and bass guitar	2013-			
President of the student association N6Kn'Sat. Student project: development, conception and launching of mini-satellites; collaboration with students of the Aerospace School SSAU (Russia).				
Responsible for communicatio	2014			
Graphic designer for the French air show "Airexpo", Toulouse (France).				