Erwan Lecarpentier

PhD

+336 38 38 63 71	Education	
erwan.lecarpentier @isae.fr	PhD in Computer Science	2016–2020
erwanlecarpentier @github.io	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.	2010 2020
	Exchange year	2015–2016
	Graduate student, University of Stuttgart (Germany). Reinforcement Learning, Machine Learning, Robotics and Computer Vision.	
	French engineering school (~ Master's degree)	2013–2015
	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.	
	French preparatory class	2011–2013
	Saint-Brieuc (France), $A+$. Leading to competitive exam for entry to Graduate Engineering Schools. Advanced theoretical Mathematics, Physics and Engineering Sciences.	
	Baccalaureate	2009–2011
	Lamballe (France), <i>A+ with distinction</i> . Equivalent to A level, with specialization in Mathematics.	
	Experience	
	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.	2016
	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.)	
	Research internship in Statistic, ENAC, Toulouse (France).	2015
	Statistical modelling of the air-travel market and airline behavior.	(2 months)

Publications				
Lipschitz Lifelong Reinforcement Learning. Erwan Lecarpentier, David Abel, Kavosh Asadi, Yuu Jinnai, Emmanuel Rachelson, and Michael L. Littman. AAAI, 2021.				
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. Erwan Lecarpentier, Guillaume Infantes, Charles Lesire, and Emmanuel Rachelson. IJCAI, 2018.				
Empirical evaluation of a Q-Learning Algorithm for Model-free Autonomous Soaring. Erwan Lecarpentier, Sebastian Rapp, Marc Melo, and Emmanuel Rachelson. JFPDA, 2017.				
Teaching Experience				
Primary Instructor	Algorithms Complexity, ISAE-SUPAERO. Python Programming, ISAE-SUPAERO.	2018-2019 2019		
Teaching Assistant	Machine Learning, ISAE-SUPAERO. Optimization, ISAE-SUPAERO. Graph Theory, ISAE-SUPAERO.	2018-2019 2018-2019 2019		
Awards				
Best PhD thesis award – Fondation ISAE-SUPAERO 2020				
Languages				
French English (TOEFL 553, 2013) German (B1+)	Mother tongue Proficient working English 1 year of exchange in Stuttgart			
Trivia				
Playing guitar and bass guitar, n	nember of a music band.	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 communication in the student office of ISAE-SUPAERO ENSICA. Creation of communication media; management of events.				
Graphic designer for the French air show "Airexpo", Toulouse (France).				