Erwan Lecarpentier

PhD

+336 38 38 63 71	Education	
erwan.lecarpentier @isae.fr 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	
	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.	2015 (2 months)

Publications

Lipschitz Lifelong Reinforcement Learning.

Erwan Lecarpentier, David Abel, Kavosh Asadi, Yuu Jinnai, Emmanuel Rachelson, and Michael L. Littman. *Submitted.*

Non-Stationary Markov Decision Processes a Worst-Case Approach using Model-Based Reinforcement Learning.

Erwan Lecarpentier and Emmanuel Rachelson. *NeurIPS 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.

Teaching Assistant Machine Learning, ISAE-SUPAERO.

Optimization, ISAE-SUPAERO.
Graph Theory, ISAE-SUPAERO.

Languages _

French Mother tongue
English (TOEFL 553, 2013) Proficient working English
German (B1+) 1 year of exchange in Stuttgart

Trivia

Playing guitar and bass guitar, member of a music band.

2013-

President of the student association N6Kn'Sat.

2014-2015

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.

2014

Graphic designer for the French air show "Airexpo", Toulouse (France).

2014