

Simon Carrignon

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Education

Université Denis Diderot Paris 7

Paris, France

Master Student in Logic, Philosophy, History and Sociology of Science

2011–2013

Classes in Hist., Philo. & Socio. of Sciences. Topic of interest: Evolutionary Theory and the epistemic link btw. Evolutionary Robotics & Evolutionary Biology.

École Pratique des Hautes Études

Paris, France

Master Student in Natural & Artificial Cognition

2009–2011

Classes in Cognitive Sciences with courses of Neurosciences, Cognitive Psychology & Artificial Intelligence.

Université de Montréal

Montréal, Canada

Exchange Student

2008–2009

One year to finish the bachelor with courses in Neurosciences, Artificial Intelligence & Bioinformatics.

Université Claude Bernard Lyon 1

Lyon, France

License Student in Computer Science, sp. MIV

2007–2009

License with classes in Biology, Computer Science & Bioinformatics.

Université Joseph Fourier

Grenoble, France

License Student in Computer Science & Biology.

2005–2007

Two years to learn the fundamentals in Computer Science & Biology.

Master Thesis

Supervisor: N. Bredèche

LRI-INRIA-Paris Sud

Master “Natural & Artificial Cognition”, École Pratiques des Hautes Études (Paris,Fr)

mars – aug. 2011

Title: Self-organization in swarm of autonomous agents: evolution of specialized behaviors.

Abstract: The goal was to investigate the emergence of speciation during environment-driven evolutionary adaptation in a population of autonomous robotic units. We address the case of sympatric speciation (occurrence of speciation without geographical isolation). We show that such speciation is possible in a robotic setup under very specific constraints with respect to mating opportunities and resources distribution.

Supervisor: F. Bouchard

CIRST-UdeM (Canada)

Master “Logic Philosophy History & Sociology of Sciences”, Univ. Paris 7 (Fr)

apr. – sept. 2013

Title: Evolutionary Robotics as a model to study Biology of Evolution.

Abstract: To justify the use of Evolutionary Robotics as a model to study evolution, we first explain the general principles and history of darwinian evolution and present current approaches. After, we underline the pertinence of the application of models (as in the semantic view), and simulations of those models, to study life. To finally introduce ER and to show that, as an embodied artificial life experiment, it combines numerous advantages that make it an ideal model to study evolution.

Experience

Professionnal.....

LUTIN-Université Paris 8

Paris, France

Research engineer

jan. 2010–mar. 2012

1 week to 3 months short contracts during which I help researchers in data processing & statistical analysis and that allow me to develop or complete:

- o ACACIA Coop: a Netlogo program used to explore the worth of altruistic behaviors in swarm of autonomous agent (@git)
- o Pedestrian: a Netlogo program which allow user to test agent based pedestrian models in real map (@git).

Université Paris Dauphine*Junior Lecturer (Chargé de cours)*

Course for 2nd yr. university students. Total amount of teaching: 36hr.

Elementary notions of algorithmics and databases manipulation (w/ Foxpro).

Paris, France*sept. 2011–jan. 2012***Université Paris 8***Junior Lecturer (Chargé de cours)*

Course for undergraduate students (License Students). Total amount of teaching: 144hr.

C2I classes– gives the fundamentals to use the office tools and to understand computers.

Paris, France*sept. 2010–jan. 2012***Internship**.....**Supervisor: E. Zibetti (CHArt-Univ. P8)***Human Heuristic & Autonomous Robot*

Development of a Java API to control a Khepera III robot via bluetooth linked with autonomous controller build from Human

Heuristics found after the analysis of real experiments.

Paris, France*sept. 2009–jan. 2011***Supervisor: A. Green (Dept. de Physio.-UdeM)***Controler for physiological experiments*

Graphical interface and communication's tools to control and synchronize an experimental setup designed to make physiological experiments on the monkey.

Montréal, Canada*may 2009–aug. 2009***Supervisor: V. Daubin (LBBE-UCBL)***Phylogenetic, Bacteria & LGT*

C++ implementation of an algorithm used to adjust the species tree with the genetic tree including duplication and LGT.

Lyon, France*may 2008–aug. 2008***Publications**

Languages

French: Mother Tongue**English:** Good*Good experience in academic written & spoken English***Spanish:** Intermediate*Daily practice***Computer skills**

OS: Linux (Ubuntu/Debian end & admin user), Windows XP, Seven, Vista.**Publishing:** \LaTeX /Lua \TeX , Open Office & Microsoft Office Writers.**Programming:** C/C++, R, Java, Bash, Python/Perl, Php.**Statistical analysis/Visualizing:** R (very good skills), Excel, Matlab.**Interests**

I used to have a lot of associative activities, mostly activities which go around music, but also a bunch of works around sciences. I like reading, travel around the world and dive into the Linux CLI.