

Kevin Godin-Dubois

A-Life Researcher on the Emergence of Cognition

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Miscellaneous

Spoken Languages

French (mother tongue)
English (fluent)

Hobbies

Tabletop RPG
Reading (Carlton Mellick III, Warhammer 40K)
Music (Metal, Classical, Hard Rock, OSTs)
Video games (Construction, Puzzle, RPG)

Computing Skills

🔧 Languages

● C++
● C, Java
● Python

🏠 Processing

● Gnuplot
● Octave/Matlab

≡ Redaction

● L^AT_EX/ TikZ
● Office Software

🐧 Systems

● Linux
● Windows, Android

Education

2016-Present - Capitole University, Toulouse
PhD thesis, “*Environment driven speciation*”
Investigated how complexification of artificial creatures could be further enhanced by moving the control apparatus around the abiotic component of an ecosystem

2014-2016 - Paul Sabatier University, Toulouse
Master’s degree in Computer Science
Artificial intelligence: mathematical and symbolic models, training methods

2011-2014 - Paul Sabatier University, Toulouse
Bachelor’s degree in Computer Science

Professional Experience

2016-Present - Teachings

- 2017 & 2018, Capitole University, Toulouse
 - L2 Excel and Visual Basic for Applications
 - L2 Algorithms and Visual Basic
 - L3 Modeling in Database
- 2016 & 2017, Paul Sabatier University, Toulouse
 - L2 project monitoring on C programming

2016 - Internship IRIT, France

TOULOUSE RESEARCH INSTITUTE ON COMPUTER SCIENCE
“*Rule-based artificial embryogenesis in a complex 3D environment*”
Deployed rule-based genomes on the MecaCell platform to study artificial plant growth and cell specialization.

2015 - Internship IRIT, France

“*Comparison of different evolutionary approaches, an application to the GECCO 2015 challenge*”
Performed a performance comparison (accuracy, efficiency) between Artificial Neural and Genetic Regulatory Networks on the 2015 GECCO temperature prediction challenge data.

Publications and Conferences

- Kevin Godin-Dubois et al. “APOGeT : Automated Phylogeny over Geological Time-scales”. In: *ALIFE 2019 (MethAL workshop)*. 2019
- Kevin Godin-Dubois et al. “Speciation under Changing Environments”. In: *ALIFE 19*. Vol. 31. Cambridge, MA: MIT Press, 2019, pp. 349–356
- Kevin Godin-Dubois et al. “Self-sustainability Challenges of Plants Colonization Strategies in Virtual 3D Environments”. In: *Applications of Evolutionary Computation*. Ed. by Paul Kaufmann et al. Cham: Springer International Publishing, 2019, pp. 377–392
- Poster presentation “Studying long term interactions between plants and their environment” at The 2018 Conference on Artificial Life
- Kevin Dubois et al. “Towards an Artificial Polytrophic Ecosystem”. In: *Morphogenetic Engineering Workshop, at the European Conference on Artificial Life (ECAL) 2017 September 4*. 2017

