

# Kevin Godin-Dubois

*A-Life researcher on cognition evolution*

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🔄 Up-to date version

## Miscellaneous

### Spoken Languages

French (mother tongue)  
English (fluent)

### Hobbies

Tabletop RPG  
Reading (Carlton Mellick III, Science Fiction, Medieval)  
Music (Metal, Classical, Hard Rock, OSTs)  
Video games (Construction, Puzzle, RPG)

## Computing Skills

### 🔧 Languages

● C++  
● C, Java  
● Python

### 🏔 Processing

● Gnuplot  
● Octave/Matlab

### ≡ Redaction

● L<sup>A</sup>T<sub>E</sub>X  
● Office Software

### 🐧 Systems

● Linux  
● Windows, Android

## Education

**2014-2016** - Paul Sabatier University, Toulouse  
*Master's degree in Computer Science*  
Artificial intelligence: mathematical models and 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
  - 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.

**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

## Publications and Conferences

- Kevin Godin-Dubois et al. "Speciation under Changing Environments". In: *ALIFE 19*. 2019, to appear
- Kevin Godin-Dubois et al. "Self-sustainability Challenges of Plants Colonization Strategies in Virtual 3D Environments". In: *Applications of Evolutionary Computation*. Ed. by Kaufmann Paul 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

