# **Kevin Godin-Dubois**

A-Life Researcher on the Emergence of Cognition

 ${\ensuremath{\boxtimes}}$ kevin.dubois@irit.fr

kgd-al@github.com

**v** godinduboisalife **c** Up-to date version

**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

#### Education

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

### Miscellaneous

### Spoken Languages

French (mother tongue) English (fluent)

#### Hobbies

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

## Computing Skills

**♥** Languages

● C++

C, Java

Python

Processing

Gnuplot

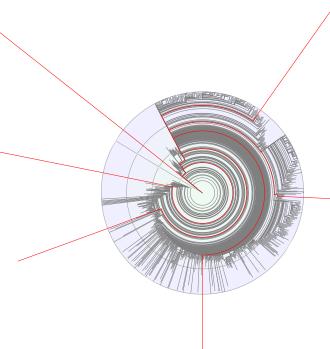
Octave/Matlab

Redaction

LATEX / TikZOffice Software

Systems
Linux

Windows, Android



### **Publications and Conferences**

## Professional Experience

#### **2016-2019** - Teachings

- $\bullet$  2017 & 2018, Capitole University, Toulouse
  - $\circ$  L2 Excel and Visual Basic for Applications
  - o L2 Algorithms and Visual Basic
  - $\circ$  L3 Modeling in Database
- $\bullet$  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.

- 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