# Kevin Godin-Dubois

*A-Life Researcher on the Emergence of Cognition*


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Up-to date version


## 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
**Contact:** Pr. Y. Duthen (`yves.duthen@irit.fr`)

**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)

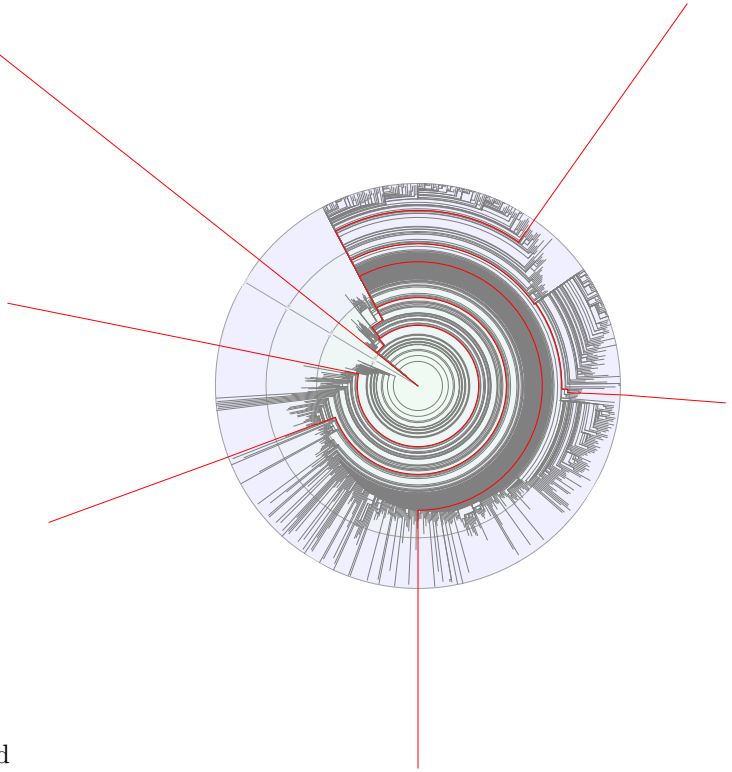
## Computing Skills

**Languages**
- C++
- C, Java
- Python

**Processing**
- Gnuplot
- Octave/Matlab

**Redaction**
- LaTeX/ Ti*k*Z
- Office Software

**Systems**
- Linux
- Windows, Android



## Professional Experience

**2016-2019** - 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.
**Contact:** Pr. H. Luga (`herve.luga@irit.fr`)

## Publications and Conferences

- "Beneficial catastrophes: dynamical and heterogeneous environments promote population robustness in EDEA". in: *ALIFE 2020*. 2020, in preparation
- "APOGeT: Automated Phylogeny Over Geological Timescales". In: *ALIFE 2019 (MethAL workshop)*. 2019, to appear
- "Speciation under Changing Environments". In: *ALIFE 19*. Vol. 31. Cambridge, MA: MIT Press, 2019, pp. 349–356
- "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". In: *ALIFE 2018*. Tokyo, 2018
- "Towards an Artificial Polytrophic Ecosystem". In: *Morphogenetic Engineering Workshop, at the European Conference on Artificial Life (ECAL) 2017 September 4*. 2017