

Publications as of March 17, 2025

Journals (peer-reviewed)

- [1] K. Godin-Dubois, K. Miras, and Anna V Kononova. “AMaze: An Intuitive Benchmark Generator for Fast Prototyping of Generalizable Agents”. In: *Frontiers in Artificial Intelligence* (2025), accepted. DOI: 10.3389/frai.2025.1511712.
- [2] K. Godin-Dubois, K. Miras, and A. V. Kononova. “AMaze: A Benchmark Generator for Sighted Maze-Navigating Agents”. In: *Journal of Open Source Software* (2025), in press.
- [3] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. “Explaining the Neuroevolution of Fighting Creatures Through Virtual fMRI”. In: *Artificial Life* 29.1 (2023), pp. 66–93. ISSN: 1064-5462. DOI: 10.1162/artl_a_00389.

International conferences (peer-reviewed)

- [4] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. “Specialization or Generalization: Investigating NeuroEvolutionary Choices via Virtual fMRI”. In: *ALIFE 2024: Proceedings of the 2024 Artificial Life Conference*. MIT Press, July 2024. DOI: 10.1162/isal_a_00817.
- [5] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. “Spontaneous Modular NeuroEvolution Arising from a Life/Dinner Paradox”. In: *The 2021 Conference on Artificial Life*. Cambridge, MA: MIT Press, 2021, p. 95. DOI: 10.1162/isal_a_00431. Presentation: <https://vimeo.com/godinduboisalife/alife2021main>.
- [6] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. “Beneficial Catastrophes: Leveraging Abiotic Constraints through Environment-Driven Evolutionary Selection”. In: *2020 IEEE Symposium Series on Computational Intelligence (SSCI)*. 2020, pp. 94–101. DOI: 10.1109/SSCI47803.2020.9308411.
- [7] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. “Self-Sustainability Challenges of Plants Colonization Strategies in Virtual 3D Environments”. In: *Applications of Evolutionary Computation*. Ed. by P. Kaufmann and P. A. Castillo. Cham: Springer International Publishing, 2019, pp. 377–392. ISBN: 978-3-030-16692-2. DOI: 10.1007/978-3-030-16692-2_25.
- [8] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. “Speciation under Changing Environments”. In: *ALIFE 19*. Vol. 31. Cambridge, MA: MIT Press, 2019, pp. 349–356. ISBN: 978-0-262-35844-6. DOI: 10.1162/isal_a_00186. Presentation: <https://vimeo.com/godinduboisalife/alife2019>.

Workshops

- [9] H. Aydin et al. *SHARPIE: A Modular Framework for Reinforcement Learning and Human-AI Interaction Experiments*. Workshop. Feb. 2025. DOI: 10.48550/arXiv.2501.19245. (Visited on 03/14/2025).
- [10] K. Godin-Dubois et al. “Interactive Embodied Evolution for Socially Adept Artificial General Creatures”. In: *Evolution of Things Workshop at the ALife 2024 Conference*. arXiv, July 2024. DOI: 10.48550/arXiv.2407.21357.
- [11] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. “Emergent Communication for Coordination in Teams of Embodied Agents”. In: *4th International Workshop on Agent-Based Modelling of Human Behaviour (ALife2022)*. 2022.
- [12] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. “On the Benefits of Emergent Communication for Threat Appraisal”. In: *3rd International Workshop on Agent-Based Modelling of Human Behaviour*. Online, 2021. Presentation: <https://vimeo.com/godinduboisalife/abmhub2021>.

- [13] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. “APOGeT: Automated Phylogeny Over Geological Timescales”. In: *MethAL Workshop at ALife 2019*. 2019. DOI: 10.48550/arXiv.2407.21412.
- [14] K. Dubois, S. Cussat-Blanc, and Y. Duthen. “Towards an Artificial Polytrophic Ecosystem”. In: *Morphogenetic Engineering Workshop, at the European Conference on Artificial Life (ECAL) 2017 September 4*. 2017.

Posters

- [15] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. “Studying Long Term Interactions between Plants and Their Environment”. In: *Alife 2018*. Tokyo, 2018. DOI: 10.13140/RG.2.2.27553.97125.

Oral presentations

- [16] K. Godin-Dubois, S. Cussat-Blanc, and Y. Duthen. *Splinoids: First Steps out of EDenS*. Talk. Montreal (Virtual), 2020.

Softwares and datasets

- [17] K. Godin-Dubois. *AMaze: Fully Discrete Training with Three Regimes (Direct, Scaffolding, Interactive) and Two Algorithms (A2C, PPO)*. Dataset. Feb. 2024. DOI: 10.5281/ZENODO.10622913. (Visited on 09/19/2024).
- [18] K. Godin-Dubois, K. Miras, and A. V. Kononova. *AMaze: A Lightweight Benchmark Generator for Sighted Agents*. Zenodo. Software. Apr. 2024. DOI: 10.5281/ZENODO.10907939.
- [19] A. Stuurman et al. *Ci-Group/Revolve2: 1.2.3*. Zenodo. Software. Nov. 2024. DOI: 10.5281/ZENODO.14143431. (Visited on 02/12/2025).

Thesis

- [20] K. Godin-Dubois. “Environment-Driven Speciation: Long-Term Interactions in Artificial Plant Communities”. PhD thesis. Doctoral school of Mathematics, Computer Science and Telecommunications (Toulouse, France), 2020. URL: <http://www.theses.fr/2020TOU10026/document>.