

Publications as of February 27, 2026

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* Volume 8 - 2025 (2025). ISSN: 2624-8212. 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).
- [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 22, 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, **K. Godin-Dubois**, L. G. Braz, F. Den Hengst, K. Baraka, M. M. Celikok, A. Sauter, S. Wang, and F. A. Oliehoek. “SHARPIE: A Modular Framework for Reinforcement Learning and Human-AI Interaction Experiments”. In: *Collaborative AI and Modeling of Humans*. arXiv, Feb. 2025. DOI: 10.48550/arXiv.2501.19245. (Visited on 03/14/2025).
- [10] H. Aydin, **K. Godin-Dubois**, L. Goncalvez Braz, Floris Den Hengst, K. Baraka, M. M. Celikok, A. Sauter, S. Wang, and F. A. Oliehoek. “Towards an Experimentation Platform for Hybrid Human-AI Sequential Decision-Making”. In: *Frontiers in Artificial Intelligence and Applications*. Ed. by D. Pedreschi, M. Milano, I. Tiddi, S. Russell, C. Boldrini, L. Pappalardo, A. Passerini, and S. Wang. IOS Press, Sept. 2025. ISBN: 978-1-64368-611-0. DOI: 10.3233/FAIA250669.
- [11] **K. Godin-Dubois**, O. Weissl, K. Miras, and A. V. Kononova. “Interactive Embodied Evolution for Socially Adept Artificial General Creatures”. In: *Evolution of Things Workshop at the ALife 2024 Conference*. arXiv, July 31, 2024. DOI: 10.48550/arXiv.2407.21357.

- [12] **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.
- [13] **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>.
- [14] **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.
- [15] **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

- [16] **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

- [17] **K. Godin-Dubois**, S. Cussat-Blanc, and Y. Duthen. “Splinooids: First Steps out of EDEnS”. ERA Workshop at Alife 2020 (Montreal (Virtual)). 2020.

Softwares and datasets

- [18] **K. Godin-Dubois**. *AMaze: Fully Discrete Training with Three Regimes (Direct, Scaffolding, Interactive) and Two Algorithms (A2C, PPO)*. Version 0.9. Zenodo, Feb. 6, 2024. DOI: 10.5281/ZENODO.10622913. (Visited on 09/19/2024).
- [19] **K. Godin-Dubois**, K. Miras, and A. V. Kononova. *AMaze: A Lightweight Benchmark Generator for Sighted Agents*. Zenodo, Apr. 2, 2024. DOI: 10.5281/ZENODO.10907939.
- [20] A. Stuurman, O. Weissl, T.-C. Chiang, AndresG, D. Zeeuwe, **K. Godin-Dubois**, and Roy. *Ci-Group/Revolve2: 1.2.3*. Zenodo. Software. Nov. 2024. DOI: 10.5281/ZENODO.14143431. (Visited on 02/12/2025).

Thesis

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