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Phone: +33 6 38 26 38 84 Date of birth: 12 December 1997

EDUCATION —

since 2021	Ph.D. in Theoretical Computer Science, LaBRI, Université de Bordeaux, France.
	Under the supervision of Diego Figueira & Nathanaël Fijalkow.
2017-2021	Normalien civil servant student, École normale supérieure Paris-Saclay, France.
2021	Parisian Master of Research in Computer Science.
2020	Agrégation of Mathematics & Master of Higher Education in Mathematics.
	Nationwide competitive examination recruiting high school & undergraduate teachers.
2015-2017	Undergraduate studies (prépa), Lycée Saint-Louis, France.
	Majors in Mathematics, Physics & Computer Science.

RESEARCH INTERNSHIPS

MarAug.	First-order separation of transfinite regular languages, IRIF, Université de Paris, France.
2021	Supervised by Thomas Colcombet and Sam van Gool.
FebJuly	Recursive algorithms for parity games, University of Warwick, United Kingdom.
2019	Supervised by Marcin Jurdziński.
June-July	Multi-agent systems in microeconomics, CRIStAL, Université de Lille, France.
2018	Supervised by Philippe Mathieu.

TEACHING -

2021-2022 **Teaching assistant**, *Université de Bordeaux, France*, 65h.

- Computability and Complexity (exercise session, Master 1)
- Proofs & Logics (exercise session, Bachelor 3)
- Digital Literacy, (lecture & exercise session, Bachelor 1)

2020–2021 Oral examinations in mathematics for first year students, Lycée Saint-Louis, France, 59h.

SOFTWARES -

since 2022 Knowledge-Clustering, [Github].

Command-line tool facilitating the use of the LATEX package knowledge, by agglomerating similar notions. Written in Python; co-maintained by Aliaume Lopez and Thomas Colcombet.

2018–2019 atomPython, [Github].

A platform for simulating double-auction markets to study the behaviour of artificial agents. Written in Python; supervised by Philippe Mathieu.

PUBLICATIONS -

JOURNALS

[J1] Philippe Mathieu and Rémi Morvan. A deterministic behaviour for realistic price dynamics. *Physica A: Statistical Mechanics and its applications*, 2019. doi:10.1016/j.physa.2019.03.042.

CONFERENCES

- [C1] Thomas Colcombet, Sam van Gool, and Rémi Morvan. First-order separation over countable ordinals. FoSSaCS, 2022. URL: https://arxiv.org/abs/2201.03089.
- [C2] Philippe Mathieu and Rémi Morvan. Un comportement déterministe pour une dynamique des prix réaliste. In *JFSMA*, 2019. URL: https://hal.inria.fr/hal-02174575.

MISC

[M1] Rémi Morvan. First-order separation of transfinite regular languages. Master's thesis, École normale supérieure Paris-Saclay, 2021. doi:10.13140/RG.2.2.22251.87847/1.

PREPRINTS

- [P1] Marcin Jurdziński and Rémi Morvan. A universal attractor decomposition algorithm for parity games. arXiv: 2001.04333, 2020. URL: https://arxiv.org/abs/2001.04333.
- [P2] Marcin Jurdziński, Rémi Morvan, Pierre Ohlmann, and K. S. Thejaswini. A symmetric attractor-decomposition lifting algorithm for parity games. *CoRR abs/2010.08288*, 2020. URL: https://arxiv.org/abs/2010.08288.

PRESENTATIONS —

5 Apr. 2022	FoSSaCS '22, First-order separation over countable ordinals, Munich.
4 Jan. 2022	6th ANR Delta meeting, Separation over infinite words, online.
7 Oct. 2021	LX Seminar (LaBRI), First-order separation over countable ordinals, Bordeaux.
28 June 2021	5th ANR Delta meeting , <i>Universal algorithms for parity games and nested fixpoints</i> , Paris.
16 Sept. 2020	Highlights of Logic, Games and Automata 2020, A universal attractor decomposition al-
	gorithm for parity games, online.