

RÉMI MORVAN

Last update: 23rd January 2022

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Date of birth: 12 December 1997

EDUCATION

- since 2021 **Ph.D. in 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**.
Nationwide competitive examination recruiting high school & undergraduate teachers.
Master of Higher Education in Mathematics.
- 2018 **Bachelor in Mathematics**.
Bachelor in Computer Science.
- 2015–2017 **Undergraduate studies "prépa"**, *Lycée Saint-Louis, France*.
Majors in Mathematics, Physics & Computer Science.

RESEARCH INTERNSHIPS

- Mar.–Aug. **First-order separation of transfinite regular languages**, *IRIF, Université de Paris, France*.
2021 Supervised by Thomas Colcombet and Sam van Gool.
- Feb.–July **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, (exercise session, Bachelor 1)
- 2020–2021 **Oral examinations in mathematics** for first year students, *Lycée Saint-Louis, France*, 59h.

PUBLICATIONS

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>.

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.

PRESENTATIONS

- 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**, *Universal algorithms for parity games and nested fixpoints*, Paris.
- 16 Sept. 2020 **Highlights of Logic, Games and Automata 2020**, *A universal attractor decomposition algorithm for parity games*, online.