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Education

LaBRI, Université de Bordeaux

since Sep. 2021

Ph.D. IN COMPUTER SCIENCE

Bordeaux, France

Under the supervision of Diego Figueira & Nathanaël Fijalkow, in LaBRI's Formal Methods and Models department.

École normale supérieure Paris-Saclay

Sep. 2017 - Aug. 2021

NORMALIEN CIVIL-SERVANT

Cachan, France

• Parisian Master of Research in Computer Science (Univ Paris-Cité)

• Agrégation of Mathematics & Master of Higher Education in Mathematics (Univ. Paris-Saclay)

Lycée Saint-Louis Sep. 2015 - Aug. 2017

Undergraduate studies « prépa » Majors in Mathematics and Physics. Paris, France

Oct. 2023

Research Experience _____

RESEARCH INTERNSHIPS & LONG VISITS

Uniwersytet Warszawski Feb. & May 2023

RESEARCH VISIT Warsaw, Poland

Four-week visit (two weeks in Feb. & two weeks in May), hosted by Nathanaël Fijalkow.

Pontificia Universidad Católica de Chile

Santiago, Chile

One-month visit, hosted by Pablo Barceló and Miguel Romero (Universidad Adolfo Ibáñez).

IRIF, Université de Paris Mar. - Aug. 2021

MASTER 2 INTERNSHIP Paris, France

Five-month internship, supervised by Thomas Colcombet and Sam van Gool, on First-order separation over countable ordinals.

University of Warwick Mar. - Aug. 2019

MASTER 1 INTERNSHIP Coventry, United Kingdom

Five-month internship, supervised by Marcin Jurdziński, on Recursive algorithms for parity games.

CRIStAL, Université de Lille June - July 2018

BACHELOR INTERNSHIP Lille, France

Six-week internship, supervised by Philippe Mathieu, on Multi-agent systems in microeconomics.

ATTENDED EVENTS (SPECIALIZED LONG WORKSHOPS)

The Futures of Reactive Synthesis, Dagstuhl seminar Sep. 2023 Discrete Mathematics and Logic, CIRM research school Jan. 2023 Finite and Algorithmic Model Theory, Dagstuhl seminar Feb. 2022

Teaching & Supervision _____

SUPERVISION

Arthur Gall May - July 2023

MASTER 1 INTERN Warsaw, Poland

Three-month internship, co-supervised with Nathanaël Fijalkow, on probabilistic automata.

COURSES

Bordeaux INP Enseirb-Matmeca Sep. 2023 - Aug. 2024

TEACHING ASSISTANT Bordeaux, France

Université de Bordeaux Sep. 2021 - Aug. 2023

TEACHING ASSISTANT

Total: 129h.

• Programming Project in C (Bachelor 2, 2022-2023, 32h)

- Automata Theory (Bachelor 3, 2022-2023, 32h)
- Computability and Complexity (Master 1, 2021-2022, 28h)
- Proofs & Logics (Bachelor 3, 2021-2022, 24h)
- Digital Literacy, (Bachelor 1, 2021-2022, 13h)

Lycée Saint-Louis Sep. 2020 – July. 2021

ORAL EXAMINATIONS IN MATHEMATICS

Total: 59h. For first year prépa (~ bachelor) students.

Paris, France

Bordeaux, France

Université de Bordeaux

Université de Bordeaux

Cachan, France

Bordeaux, France

Bordeaux, France

Service

ASSOCIATIVE & ELECTORAL ENGAGEMENT

AFoDIB since Dec. 2021

PRESIDENT (DEC. 2022 - Nov. 2023) SECRETARY (DEC. 2021 - Nov. 2022)

Association for Ph.D. students in Computer Science from Bordeaux.

Council of the STEM Department since June 2023

Ph.D. STUDENTS SUBSTITUTE REPRESENTATIVE

Council of the Doctoral School of Mathematics & Computer Science (EDMI) July. 2022 – June. 2023

Ph.D. STUDENTS SUBSTITUTE REPRESENTATIVE

La Cinquième Parallèle Sep. 2018 – Mar. 2019

TREASURER

LGBTIQ+ association for the ENS Paris-Saclay students.

SCIENTIFIC ENGAGEMENT

Games reading group Sep. 2022 - June 2023

ORGANIZER Weekly two-hour reading group on games, automata & logic in LaBRI.

EDBT-Intended Summer School 2022 WEBPAGE July 2022

WEBSITE DESIGN & STUDENT VOLUNTEER

Softwares_

knowledge-clustering GITHUB since Feb. 2022

Command-line tool facilitating the use of the LTFX package knowledge.

Written in Python and co-maintained with Aliaume Lopez & Thomas Colcombet.

atomPython GITHUB 2018 - 2019

A platform for simulating double-auction markets to study the behaviour of artificial agents.

Written in Python; supervised by Philippe Mathieu.

Publications

JOURNAL ARTICLES

A Deterministic Behaviour for Realistic Price Dynamics

PHILIPPE MATHIEU, RÉMI MORVAN

Physica A: Statistical Mechanics and its applications. Elsevier

RÉMI MORVAN · CURRICULUM VITAE JUNE 28, 2023

2019

CONFERENCE PROCEEDINGS

| Separating Automatic Relations | 2023 |
|---|------|
| PABLO BARCELÓ, DIEGO FIGUEIRA, RÉMI MORVAN FULL VERSION | |
| 48th International Symposium on Mathematical Foundations of Computer Science (MFCS) | |
| Approximation and Semantic Tree-Width of Conjunctive Regular Path Queries | 2023 |
| DIEGO FIGUEIRA, RÉMI MORVAN DOI FULL VERSION | |
| 26th International Conference on Database Theory (ICDT) | |
| First-order Separation over Countable Ordinals | 2022 |
| THOMAS COLCOMBET, SAM GOOL, RÉMI MORVAN DOI FULL VERSION | |
| 25th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS) | |
| Universal Algorithms for Parity Games and Nested Fixpoints | 2022 |
| MARCIN JURDZINSKI, RÉMI MORVAN, K. S. THEJASWINI DOI FULL VERSION | |
| Principles of Systems Design - Essays Dedicated to Thomas A. Henzinger on the Occasion of His 60th Birthday | |
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Presentations _____

Most slides are available on my website.

| Structure meets Power '23, Algebras for regular relations, 20min, online | 25 June 2023 |
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| ICDT '23, Approximation and semantic tree-width of conjunctive regular path queries, 25min, online | 29 Mar. 2023 |
| Verification seminar (IRIF) , Universal algorithms for parity games and nested fixpoints, 50min, Paris | 13 Feb. 2023 |
| MoVe seminar , Approximation and semantic tree-width of conjunctive regular path queries, 50min, Marseille | 12 Jan. 2023 |
| LINKS seminar, Approximation and semantic tree-width of conjunctive regular path queries, 50min, Lille | 9 Dec. 2022 |
| M2F seminar , Approximation and semantic tree-width of conjunctive regular path queries, 50min, Bordeaux | 6 Dec. 2022 |
| Journée M2F, Approximation and semantic tree-width of conjunctive regular path queries, 8min, Bordeaux | 7 Oct. 2022 |
| Highlights '22, Quantitative algebraic characterisations on truly infinite words, 8min, Paris | 1 July 2022 |
| EJCIM '22 , Quantitative algebraic characterisations on truly infinite words, 25min, Nice | 8 June 2022 |
| FoSSaCS '22, First-order separation over countable ordinals, 25min, Munich | 5 Apr. 2022 |
| ANR Delta 6th meeting, Separation over infinite words, 20min, online | 4 Jan. 2022 |
| LX seminar, First-order separation over countable ordinals, 50min, Bordeaux | 7 Oct. 2021 |
| Internship defense, Definability & separability of regular languages in first-order logic, 20min, Paris | 3 Sep. 2021 |
| ANR Delta 5th meeting, Universal algorithms for parity games and nested fixpoints, 20min, Paris | 28 June 2021 |
| Highlights '20 , Universal algorithms for parity games and nested fixpoints, 5min, online | 16 Sep. 2020 |
| Internship defense, Solving parity games, 20min, Cachan | 4 Sep. 2019 |
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