

Aliénor Goubault--Larrecq

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EXPERIENCE

- 5 month research internship at LIS in Marseille, France, under the supervision of Kévin Perrot, *First-Order questions on the dynamics of automata networks with distinguished configurations*, spring and summer 2022
- 3 month research internship at the Jagiellonian University in Kraków in Poland, under the supervision of Piotr Micek: *Queue layouts of graphs and posets*, spring and summer 2021
- 2 month research internship at LABRI in Bordeaux in France, under the supervision of Nathanaël Fijalkow and Jérôme Leroux: *Constructing separating automata for disjunctive objectives*, summer 2020 [1]

EDUCATION

- Special Auditor at the Graduate School of Mathematical Sciences at the University of Tokyo, under the supervision of Ryu Hasegawa, as part of my 4th year at the ENS de Lyon, 2022-2023
- L3, M1 and M2, Foundations of computer science, ENS de Lyon, 2019-2022
- L3 in mathematics, Claude Bernard Lyon 1 University, 2019-2020
- CPGE (Preparatory Classes to the entrance exams to ‘Grandes Écoles’) MP (mathematics, physics) at Lycée Charlemagne, Paris IV^{ème}, with computer science option, 2017-2019
- Baccalauréat (A-levels), mention Très bien (very good—the highest mention), 2017

PUBLICATIONS

- Goubault--Larrecq, A., and Perrot, K. (2025). *Rice-like complexity lower bounds for boolean and uniform automata networks*. arXiv preprint [arXiv:2409.08762](https://arxiv.org/abs/2409.08762).
- Gamard, G., Goubault--Larrecq, A., Guillon, P., Ohlmann, P., Perrot, K., & Theyssier, G. (2025). *Hardness of monadic second-order formulae over succinct graphs*. arXiv preprint [arXiv:2302.04522](https://arxiv.org/abs/2302.04522).
- Goubault--Larrecq, A., and Perrot, K. (2025). *Circuit Metaconstruction in Logspace for Rice-Like Complexity Lower Bounds in ANs and SGRs*. In *Crossroads of Computability and Logic: Insights, Inspirations, and Innovations: 21st Conference on Computability in Europe, CiE 2025, Lisbon, Portugal, July 14–18, 2025, Proceedings (Vol. 15764, p. 237)*. Springer Nature. arXiv version [arXiv:2502.04522](https://arxiv.org/abs/2502.04522).
- [1] Anand, A., Fijalkow, N., Goubault-Larrecq, A., Leroux, J., & Ohlmann, P. (2021). *New Algorithms for Combinations of Objectives using Separating Automata*. 12th International Symposium on Games, Automata, Logics, and Formal Verification (GandALF), 2021, Padua, Italy. Electronic Proceedings in Theoretical Computer Science 346, 2021, pp. 227–240, doi:10.4204/EPTCS.346.15. arXiv report [arXiv:2109.08322](https://arxiv.org/abs/2109.08322).

TEACHING

- 2024-2025 in AMU: *Automata and Formal Languages* in L2 (18h); *Logic* in L3 (10h); *Algorithmic* in L3 (36h).
- 2023-2024 in AMU: *Programmation 1* in L1 (48h); *Probabilistic aspects in Computer Science* in M1 (12h).

LANGUAGE SKILLS

- French - mother tongue
- English - fluent - CAE C1 obtained in January 2021
- Japanese - proficient

- Italian - intermediate
- Spanish, German - basic notions