

Dr Tristan Stérin

Head of research @ prgm.dev

✉ tristan@prgm.dev
📄 tristan.st

Work Experience

- 2021 - now **prgm.dev**, *Co-founder & head of research*, Paris, Research in computer science and nanotechnologies, recipient in 2023 of a 4M€ Horizon Europe research grant by the European Innovation Council (EIC, Pathfinder). While at prgm, I created bbchallenge.org (see [Quanta magazine's article](#)). We also develop and sell software.
- 2021 - 2024 **pome.gr**, *Co-founder & CEO*, Paris, Legal software company. Acquired by Orrick in 2024.
- 2018 **J.P. Morgan**, *Quant Intern*, London, ML applied to Automatic Market Making.
- 2018 **Optimal Sup-Spé**, *Computer Science Teacher*, Paris, Computer science tutorials for *prépa* students.
- 2016 **Lycée du Parc**, *Colleur*, Lyon, *Colles* in mathematics for MPSI students.

Education

- 2018–2022 **PhD in Computer Science**, *Maynooth University*, Ireland.
Supervised by Prof. **Damien Woods**.
- 2017–2018 **Master 2 (M.Sc.)**, *École Normale Supérieure Paris-Saclay*, Paris, Highest Honors.
Mathematics, Computer Vision and Machine Learning.
Master “MVA”, considered as the best French master programme in machine learning and AI.
- 2016–2017 **Master 1 (M.Sc.)**, *École Normale Supérieure de Lyon*, Lyon, Highest Honors.
Theoretical Computer Sciences.
- 2015–2016 **Bachelor (B.Sc.)**, *École Normale Supérieure de Lyon*, Lyon, Highest Honors.
Theoretical Computer Sciences.
I prepared the selective exam for *École Normale Supérieure de Lyon* at *Lycée Henri IV* (Paris).

Recent Publications

- 2025 **Formal verification of the 5th Busy Beaver value**, bbchallenge.org, In preparation.
- 2024 **Hardness of Busy Beaver Value BB(15)**, *T. Stérin, D. Woods*, [paper](#), [preprint](#), Reachability Problems: 18th International Conference, RP 2024, Vienna, Austria, September 25–27, 2024, Proceedings.
- 2023 **Six Tiles: From Collatz Sequences to Algorithmic DNA Origami**, *T. Stérin*, [thesis](#).
- 2021 **Small tile sets that compute while solving mazes**, *M. Cook, T. Stérin and D. Woods*, [paper](#), [preprint](#), DNA 27: Proceedings of the 27th International Conference on DNA Computing and Molecular Programming.
- 2020 **scadnano: A browser-based, easily scriptable tool for designing DNA nanostructures.**, *D. Doty, B. Lee and T. Stérin*, [paper](#), [preprint](#), [software](#), DNA 26: Proceedings of the 26th International Conference on DNA Computing and Molecular Programming.

Skills

- Topics Research, Computer Science, Mathematics, AI, Pedagogy & Teaching.
- Programming Python, C, C++, Go, Rust, OCaml, Haskell, R, Coq, PHP, SQL, HTML, CSS, JS.
- Languages French (mother tongue), English (fluent, C1 level, 197 CAE), Italian (good level).