

Jonas Sénizergues

Computer Scientist

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🌐 <https://jsenizer.github.io/>



Research interests

Graph theory
Graph algorithms
Distributed algorithms

Autostabilization
Byzantine fault tolerance
Game theory

Employment

2023-2024 **Teaching Assistant**, *Université de Bordeaux*
2021-2022 **Teaching Assistant**, *ENSIIE*
2018-2021 **PhD student**, *Université Paris-Saclay*
2016-2017 **Math Teacher in highschool**, *Bondoufle*

Diplomas

2022 **PhD**, *Computer Science*, *Université Paris-Saclay*
2015 **ENS diploma**, *ENS Cachan*
2014 **Agrégation de Mathématiques**, (*a prestigious mathematics competitive exam in France*)
2013 **Master**, *Computer Science*, *MPRI*
2011 **Licence**, *Computer Science*, *ENS Cachan*

Curriculum

2018-2022 **PhD**, *LISN*, *Université Paris-Saclay*, *Orsay*
2014-2015 **Master BIBS (as auditor)**, *Université Paris-Sud*, *Orsay*
2013-2014 **Training for the Agrégation de Mathématiques competitive exam**, *ENS Cachan*, *Cachan*
2011-2013 **Master in Computer Science**, *MPRI*, *Paris*
2010-2013 **Computer Science**, *ENS Cachan*, *Cachan*
2008-2010 **CPGE**, *Lycée Michel Montaigne*, *Bordeaux*

Languages

French Native speaker
English Fluent
Spanish B1
Japanese A2

Programming languages

○ *ssr-Coq*
○ *OCaml*
○ *Python*
○ *Java*

Publications and Preprints

- 2025 **A unified convention for achievement positional games**, *Florian Galliot, Jonas S  nizergues*, EURO-COMB2025 , <https://hal.science/hal-05002388/>
- 2023 **Making Self-Stabilizing Algorithms for any Locally Greedy Problem**, *Johanne Cohen, Laurence Pilard, Mik   l Rabie and Jonas S  nizergues*, SAND 2023
- 2021 **Self-Stabilization and Byzantine Tolerance for Maximal Independent Set**, *Johanne Cohen, Laurence Pilard and Jonas S  nizergues*, SSS 2021
- 2014 **Formalization of Shannon’s Theorems**, *Reynald Affeldt, Manabu Hagiwara, and Jonas S  nizergues*, JAR 2014
- preprint **Maker-Maker games of rank 4 are PSPACE-complete**, *Florian Galliot, Jonas S  nizergues*, Submitted to STACS 2026 , <https://hal.science/hal-05060987/>
- preprint¹ **Minimum Colored Maximum Matchings in vertex-colored Graphs**, *Johanne Cohen, Yannis Manousakis and Jonas S  nizergues*, Submitted to DMTCS, <https://hal.science/hal-02157745/>
- preprint¹ **Self-Stabilization and Byzantine Tolerance for Maximal Independent Set (journal ver.)**, *Johanne Cohen, Laurence Pilard, Fran   ois Piro  t and Jonas S  nizergues*, To be submitted, <https://arxiv.org/abs/2210.06116v3>
- preprint¹ **Autostabilizing Minimal Clique Decomposition with Byzantine Fault Tolerance**, *Johanne Cohen, Laurence Pilard and Jonas S  nizergues*, To be submitted, <https://hal.science/hal-04872001>

¹A version of these works are available in my PhD manuscript *Independent sets and beyond, through the prism of distributed systems and colored graphs*.