Jonas Sénizergues

Computer Scientist

✉ *jonas.senizergues@u-bordeaux.fr*
🌐 *https://jsenizer.github.io/*

Research interests

Graph theory   **Autostabilization**
Graph algorithms   **Byzantine fault tolerance**
Distributed algorithms   **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

2023 **Making Self-Stabilizing Algorithms for any Locally Greedy Problem**, *Johanne Cohen, Laurence Pilard, Mikaël Rabie and Jonas Sénizergues*, SAND 2023

2021 **Self-Stabilization and Byzantine Tolerance for Maximal Independent Set**, *Johanne Cohen, Laurence Pilard and Jonas Sénizergues*, SSS 2021

2014 **Formalization of Shannon's Theorems**, *Reynald Affeldt, Manabu Hagiwara, and Jonas Sénizergues*, JAR 2014

preprint **A unified convention for achievement positional games**, *Florian Galliot, Jonas Sénizergues*, Submitted to EUROCOMB2025 , https://hal.science/hal-05002388/

preprint[1] **Minimum Colored Maximum Matchings in vertex-colored Graphs**, *Johanne Cohen, Yannis Manoussakis and Jonas Sénizergues*, Submitted to DMTCS, https://hal.science/hal-02157745/

preprint[1] **Self-Stabilization and Byzantine Tolerance for Maximal Independent Set (journal ver.)**, *Johanne Cohen, Laurence Pilard, François Pirot and Jonas Sénizergues*, To be submitted, https://arxiv.org/abs/2210.06116v3

preprint[1] **Autostabilizing Minimal Clique Decomposition with Byzantine Fault Tolerance**, *Johanne Cohen, Laurence Pilard and Jonas Sénizergues*, To be submitted, https://hal.science/hal-04872001

---

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