

Silvère Gangloff

PhD candidate (last year)

Université Paul Sabatier, 118 route de Narbonne 31062 Toulouse

Tel: +330602386355

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silvere.gangloff@gmx.com

<https://sfgangloff.github.io>

Education

- ▷ 2011-2015 : **ENS Paris**. Master in fundamental mathematics (Dynamical systems). Agrégation de mathématiques.
- ▷ 2015-2018 : **PhD**, in Computer science and Mathematics, at University of Aix-Marseille, expected for June 2018 : 'Computability of the growth-type invariants of subshifts of finite type under dynamical restrictions', under the supervision of Mathieu Sablik (Toulouse) and Guillaume Theyssier (Marseille).
- ▷ Sept - Nov 2015 : Invited researcher at Santiago, Chile, CMM.

Research interests

Dynamical systems, combinatorics, topology and computability (PhD thesis). Information theory. Asymmetrical information game theory (master thesis). Computational neuroscience and cellular biology (licence). Phenomenology.

Publications

- ▷ Effect of quantified irreducibility on the computability of subshift entropy (28 pages, submitted to Discrete and Continuous dynamical systems).
- ▷ Block gluing intensity of bidimensional SFT - computability of the entropy and periodic points (53 pages, submitted to Journal d'Analyse mathématiques).
- ▷ A characterization of entropy dimensions of tridimensional subshifts of finite type (78 pages, submitted to Inventiones Mathematicae).

Teaching

- ▷ Writer for teaching books (HK editions).
- ▷ Oral interrogations for preparatory school students.
- ▷ **Tutorials** (mathematics) at the university (first and second year students) : Graph theory, Analysis, Algebra.

Talks

- ▷ ECJIM (school for young researcher organized by GdrIM CNRS), Orléans, March 2015.
- ▷ ECJIM (school for young researcher organized by GdrIM CNRS), Strasbourg, April 2016.

- ▷ Computability, Randomness and applications, CIRM, Marseille, June 2016.
- ▷ Combinatorics, Automata and Number Theory, CIRM, Marseille, December 2016.
- ▷ Seminar of LIP team, ENS Lyon, February 2017.
- ▷ International Research school on Aperiodicity and Hierarchical structures in tilings, Lyon 2017.

Organization

Organization of a workshop: Algorithmic questions in dynamical systems, Toulouse, March 2018.

Programming

Python, \LaTeX , HTML.

Languages

- ▷ French
- ▷ Spanish
- ▷ English: fluent.
- ▷ Chinese, Korean: basic knowledge.