

Florian Galliot — Curriculum Vitae

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Current position

Associate professor in Mathematics (“maître de conférences”)

Université d'Aix-Marseille

2024–

Research: Institut de Mathématiques de Marseille (I2M)

Team “Geometry, Dynamics, Arithmetics and Combinatorics”

Teaching: IUT of Aix-Marseille, Computer Science department

Past positions

Temporary teaching and research assistant in Computer Science

Université de Bordeaux

2023–2024

Research: Laboratoire Bordelais de Recherche en Informatique (LaBRI)

Team “Graphs and Optimization”

Teaching: IUT of Bordeaux, Computer Science department

Temporary teaching and research assistant in Mathematics

Université Grenoble Alpes

2022–2023

Research: Institut Fourier

Team “Combinatorics and Didactics”

Teaching: UFR “Computer Science, Mathematics and Applied Mathematics”

Education

Ph.D. in Mathematics & Computer Science

Université Grenoble Alpes, Institut Fourier

2019–2023

Master’s degree in “Operations Research, Combinatorics and Optimization”

Université Grenoble Alpes

2018–2019

Master’s degree in “Probability and Random Models”

Université Paris VI Pierre et Marie Curie (Sorbonne Université)

2017–2018

Preparation for “agrégation externe” in Mathematics

Université Paris VI Pierre et Marie Curie

2016–2017

Admitted – Rank: 55

Bachelor’s degree in Mathematics

Université Paris VI Pierre et Marie Curie

2012–2015

Research topics

- Structural graph theory
- Positional games on graphs and hypergraphs

Ph.D. thesis

Title: "Hypergraphs and the Maker-Breaker game: a structural approach"

Discipline: Mathematics & Computer Science

Dates: Started on October 1, 2019 – Defended on July 3, 2023

Institution: Université Grenoble Alpes

Research lab: Institut Fourier

Supervision: Sylvain Gravier (supervisor, Université Grenoble Alpes, Institut Fourier) and Isabelle Sivignon (co-supervisor, Université Grenoble Alpes, Grenoble INP, GIPSA-lab)

Examination committee: Eric Duchêne (reviewer, Université Lyon 1), Miloš Stojaković (reviewer, University of Novi Sad), Nadia Brauner (chair and examiner, Université Grenoble Alpes), Louis Esperet (examinator, CNRS, Université Grenoble Alpes), Valia Mitsou (examinator, Université Paris-Cité)

Publications and preprints

International journals with program committee.....

(k-2)-linear connected components in hypergraphs of rank k **Published**
Discrete Mathematics & Theoretical Computer Science (vol. 25:3, spec. ICGT'22) 2023
With S. Gravier and I. Sivignon.

Maker-Breaker is solved in polynomial time on hypergraphs of rank 3 **Submitted**
[Preprint] 2022
With S. Gravier and I. Sivignon.

International book series with peer review.....

An update on the coin-moving game on the square grid **Accepted**
Games of No Chance (vol. 6) [to appear] 2022
With S. Gravier and I. Sivignon.

International conferences with program committee.....

Poset positional games **Accepted**
FUN2024: 12th International Conference on Fun with Algorithms 2024
With G. Bagan, E. Duchêne, V. Gledel, M. Mikalački, N. Oijid, A. Parreau and M. Stojaković.

Presentations

International conferences.....

The Maker-Breaker game on hypergraphs of rank 3
Combinatorial Game Theory Colloquium IV, São Miguel, Açores January 2023

(k-2)-linear connected components in hypergraphs of rank k
11th Int'l Colloquium on Graph Theory and combinatorics (ICGT), Montpellier July 2022

National conferences.....

Reconfiguration par 2-adjacence dans la grille carrée
Journées Graphes et Algorithmes, Lyon November 2023

Composantes connexes (k-2)-linéaires d'un hypergraphe de rang k

Journées Graphes et Algorithmes, remote

November 2021

Jeu Maker-Breaker sur les hypergraphes 3-uniformes

Journées Graphes et Algorithmes, remote

November 2020

Team seminars and other events.....

"Games and Graphs" workshop, LIRIS, Lyon

October 2024

Ernest seminar, I2M, Marseille

September 2024

"Graphs and distributed computing" seminar, IRIF, Paris

June 2024

"Graphs and Optimization" team seminar, LaBRI, Bordeaux

October 2023

"Combinatorial Optimization" team seminar, G-SCOP, Grenoble

April 2023

Journées Maths à Modeler, Institut Fourier, Grenoble

December 2022

ANR P-GASE workshop on positional games, LIRIS, Lyon

February 2022

"GAIA" team seminar, GIPSA-lab, remote

July 2021

Ecole Jeunes Chercheurs du GDR IM, remote

June 2020

Journées Maths à Modeler, Institut Fourier, Grenoble

September 2019

Teaching

Associate professor in Mathematics

IUT of Aix-Marseille, Computer Science department

2024–2025

○ First year:

- Polynomials, matrices and linear systems
- Graph theory

○ Second year:

- Arithmetics and basic cryptography
- Automata theory

○ Third year:

- Advanced cryptography

Temporary teaching and research assistant in Computer Science

IUT of Bordeaux, Computer Science department

2023–2024

○ First year:

- Algorithmics and programming (Java)
- Databases (SQL)
- Development quality
- Algorithmic tools for mathematics

○ Second year:

- Data structures

Contractor & Temporary teaching and research assistant in Mathematics

Université Grenoble Alpes

2019–2023

○ First year:

- Algorithmics and programming (Python)

○ Second year:

- Sequences and series of functions
- Arithmetics and algebra applied to cryptography
- Automata theory

Internship supervision

Third-year internship in Bachelor Computer Science

Université de Bordeaux, LaBRI

June-July 2024

Alexandre Petit-Breuil: "Line graph of a hypergraph" (co-supervised with F. Dross)

Diffusion of mathematics

Supervisor for the "Cicadas"

Marseille

2024–

Biannual internship for high school girls, immersed within the CIRM (research, conferences...)

Member of the federative structure "Maths à Modeler"

Region of Grenoble, Paris, Bordeaux and Marseille

2019–

Interventions towards pupils and wide audiences, making them do research on mathematical problems in a playful manner (through handling of wooden boards, tokens, dominoes...)

Member of organization for the mathematics club "Les maths autrement"

Grenoble

2019–2022

Biannual sessions for students between the age of 7 and 18, activities on problems around discrete mathematics and unplugged computer science

Languages

French: Native language

English: Fluent