

Florian Galliot — Associate professor

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Current position

Associate professor in Mathematics (“maître de conférences”)

Aix-Marseille Université

2024–

Research: Institut de Mathématiques de Marseille (I2M), Marseille Luminy

“Geometry, Dynamics, Arithmetics, Combinatorics and their interactions” team

Teaching: IUT, site of Aix-en-Provence, 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), Talence

“Graphs and Optimization” team

Teaching: IUT, site of Gradignan, Computer Science department

Temporary teaching and research assistant in Mathematics

Université Grenoble Alpes

2022–2023

Research: Institut Fourier

“Combinatorics and Didactics” team

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

Scholarships and awards

Accessit prize to the Ph.D. award “Charles Delorme” in graphs

2024

Excellence Masters scholarship from LabEx PERSYVAL

2018

Excellence Masters scholarship from Fondation Sciences Mathématiques de Paris

2017

Research topics

- Two-player games, games on graphs and hypergraphs, positional games
- Structural and algorithmic theory of 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, 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 (examiner, Université Grenoble Alpes), Valia Mitsou (examiner, Université Paris-Cité)

Research works

Preprints.....

Token positional games	Submitted
With G. Bagan, Q. Deschamps, M. Mikalački and N. Oijid	2026
4-uniform Maker-Breaker and Maker-Maker games are PSPACE-complete	To be submitted
With J. Sénizergues	2025
A unified convention for achievement positional games	To be submitted
With J. Sénizergues	2025
The Avoider-Enforcer game on hypergraphs of rank 3	Submitted
With V. Gledel and A. Parreau	2025
Maker-Breaker is solved in polynomial time on hypergraphs of rank 3	Submitted
With S. Gravier and I. Sivignon	2025

Publications in international journals.....

Poset positional games	Published
<i>Discrete Mathematics</i> (vol. 348, issue 7)	2025
With G. Bagan, E. Duchêne, V. Gledel, M. Mikalački, N. Oijid, A. Parreau and M. Stojaković	
An update on the coin-moving game on the square grid	Published
<i>Games of No Chance</i> (vol. 6)	2025
With S. Gravier and I. Sivignon	
(k-2)-linear connected components in hypergraphs of rank k	Published
<i>Discrete Mathematics & Theoretical Computer Science</i> (vol. 25:3, special issue ICGT'22)	2023
With S. Gravier and I. Sivignon	

Publications in international conferences with proceedings.....

Maker-Maker games of rank 4 are PSPACE-complete	Accepted
STACS 2026: 43rd International Symposium on Theoretical Aspects of Computer Science	2026
With J. Sénizergues	

Graph reconstruction from queries on triples	Accepted
<i>EUROCOMB 2025: 13th European Conference on Combinatorics, Graph Theory and Applications</i>	2025
With H. La, R. Maistre, M. Petiteau and D. Watel	
A unified convention for achievement positional games	Accepted
<i>EUROCOMB 2025: 13th European Conference on Combinatorics, Graph Theory and Applications</i>	2025
With J. Sénizergues	
Poset positional games	Published
<i>FUN 2024: 12th International Conference on Fun with Algorithms</i>	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	
<i>Combinatorial Game Theory Colloquium IV, São Miguel, Açores</i>	January 2023
(k-2)-linear connected components in hypergraphs of rank k	
<i>11th Int'l Colloquium on Graph Theory and combinatorics (ICGT), Montpellier</i>	July 2022

National conferences.....

Reconfiguration par 2-adjacence dans la grille carrée	
<i>Journées Graphes et Algorithmes, Lyon</i>	November 2023
Composantes connexes (k-2)-linéaires d'un hypergraphe de rang k	
<i>Journées Graphes et Algorithmes, remote</i>	November 2021
Jeu Maker-Breaker sur les hypergraphes 3-uniformes	
<i>Journées Graphes et Algorithmes, remote</i>	November 2020

Team seminars and other events.....

<i>Tutored seminar of "Master IMD", Marseille</i>	November 2025
<i>"LIMD" team seminar, LAMA, Chambéry</i>	June 2025
<i>"ACRO" team seminar, LIS, Marseille</i>	January 2025
<i>"Pythéas Fogg" research group, I2M, Marseille</i>	January 2025
<i>ANR P-GASE "Games and Graphs" workshop, LIRIS, Lyon</i>	October 2024
<i>Ernest seminar, I2M, Marseille</i>	September 2024
<i>"Graphs and distributed computing" seminar, IRIF, Paris</i>	June 2024
<i>"Graphs and Optimization" team seminar, LaBRI, Bordeaux</i>	October 2023
<i>"Combinatorial Optimization" team seminar, G-SCOP, Grenoble</i>	April 2023
<i>"Maths à Modeler" Days, Institut Fourier, Grenoble</i>	December 2022
<i>ANR P-GASE workshop on positional games, LIRIS, Lyon</i>	February 2022
<i>"GAIA" team seminar, GIPSA-lab, Grenoble (remote)</i>	July 2021
<i>Summer School for Young Researchers in "GDR IM", LaBRI, Bordeaux (remote)</i>	June 2020
<i>"Maths à Modeler" Days, Institut Fourier, Grenoble</i>	September 2019

Teaching

Associate professor in Mathematics

Aix-Marseille Université, IUT, site of Aix-en-Provence, 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

University of Bordeaux, IUT, site of Gradignan, 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, UFR "Computer Science, Mathematics and Applied Mathematics" 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)

Popularization of mathematics

Supervisor and member of the organization committee for the "Cicadas"

Marseille

2024–

Semestrial internships 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

Bimensual 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