Léo Gayral

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Professional Experience

Université Paul Sabatier	Toulouse, France	2020–2023

Mathematics PhD, tutored by Mathieu Sablik,
on the *robustness of tilings and cellular automata under random perturbations*.
• I wrote scientific articles and got them published in international journals (see my Google Scholar).
• I presented my work at several international conferences.
• I followed classes on machine learning, SQL and shell Bash.
• I supervised undergratuate interns for one semester.
• I taught practical classes of Python (12h), SQL (30h) and C (28h),
and probability and statistics (24h, plus the creation of support material using Jupyter notebooks).

LIG	Grenoble, France	2019

Mathematics Reasearch Intern for one semester,
on game theory (*Potential Games with Partial Interactions*),
tutored by Bruno Gaujal and Federica Garin.
During this internship, I notably used a computer cluster to produce simulations,
and attended a weekly reading group on Goodfellow's *Deep Learning*.

CEREMADE, Université Paris-Dauphine	Paris, France	2016

Mathematics Reasearch Intern for six weeks,
on game theory (*Long Term Study of the Markov Decision Processes*),
tutored by Bruno Ziliotto and Xavier Venel.

International Experience

Department of Mathematics and Statistics, UVic	Victoria, Canada	2022

On month research stay with Anthony Quas.

CAMS, AUB	Beirut, Lebanon	2022

One month research stay with Siamak Taati.

SDA2 & Dyadisc5 Conference	Liège, Belgium	2022

One week international conference, where I gave a presentation on my work.

Graduate School of Science	Kyoto, Japan	2017

Three months research internship.

Computer Skills

Python (Matplotlib, Numpy, Jupyter, Pandas, Scikit), C, SQL, shell Bash, Markdown, LaTeX, Inkscape.

Education

Université Paris-Saclay	Orsay, France	2019–2020

• *Master de Mathématiques de l'Aléatoire*, obtained in 2020 with $17.18/20$
(Randomness Mathematics M.Sc. with highest honors),
including classes on high-dimensional statistics, Markov chains, random matrices, Brownian motion.

École Normale Supérieure	Lyon, France	2015–2020

A leading institution of higher education, entrance to which is based on a competitive examination.
• *Nouveau diplôme de l'ENS de Lyon*, obtained in 2020 (school honorary diploma).
• *Master d'Informatique*, obtained in 2019 with $17.15/20$ (C.S. M.Sc. with highest honors),
including classes on machine learning, information theory,
optimal decision making and online optimisation, random walks on graphs.
• *Agrégation de Mathématiques, option Informatique*,
passed in 2018, ranked 8th out of 381 opened positions (competitive teaching examination).

Language Skills

Native in French,
Proficient in English, with a *Cambridge English Advanced* C2 level certification,
Intermediate Spanish, B2 level,
Intermediate Japanese, B1 level.

Misc.

Project Euler enthusiast (see my GitHub)	
Methodological Principles of Reproducible Research	2019
Scientific Ethics and Integrity	2020–2021
Equality Academy: Inclusive Communication	2021
Brevet d'études musicales (intermediate music theory diploma), in the CRR music conservatory in Perpignan.	2002–2010
Permis B (driver's licence)	