Victor ISSA

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About Me	Lam a first ve	ear PhD student at	ENS de Lvon	under the supervision
TIDOUU IVIC	I am a mouve	ai i iiD suuudiii ai	LIND GC LIVOII	under the supervision

of Jean-Christophe Mourrat. I am interested in problems related to

spin glasses and partial differential equations.

Education

2019-2022 École Normale Supérieure de Lyon, Obtained a Master's degree

in Probability and Statistics. Grade: 17,2/20

2021-2022 EM Lyon Buisness School, Followed a semester worth of courses

on the topic of mathematical finance and portfolio management in

the context of an exchange program. Grade: 17,1/20

2017-2019 Lycée Michelet, Classe Préparatoire MPSI-MP.

Research Experience

Winter 2023 University of Waterloo, Research internship under the supervi-

sion of Aukosh Jagannath. Duration: 4 months.

Fall 2022 University of Toronto, Obtained results in the direction of a proof

of Parisi's formula using Hamilton-Jacobi equations. Performed bibliographic research on the Sherrington-Kirkpatrick model and multispecies spin glass models under the supervision of Dmitry Panchenko.

Duration: 5 months.

Summer 2022 École Normale Supérieure de Lyon, Proved a uniqueness re-

sults for a class of weak solutions for the Hamilton-Jacobi equation. Learned viscosity solution theory for the Hamilton-Jacobi equations. Researched uniqueness properties of weak solutions of the Hamilton-Jacobi equation under the supervision of Jean-Christophe Mourrat.

Duration: 5 months.

Summer 2021 King's College, Performed bibliographic research on elliptic curves,

complex multiplication and L functions under the supervision of Ne-

tan Dogra. Duration: 3 months.

Summer 2020 Université Paris-Saclay, Performed bibliographic research on L

functions and Artin's conjecture under the supervision of Gaetan

Chenevier. Duration: 6 weeks.

Research Articles

Uniqueness of weak solutions for the Hamilton-Jacobi equation. Prépublication.

Teaching Activities

Spring 2024 **Probability Exercise Sessions** Coordinated the exercise sessions

of the master course "stochastic processes" given by Emmanuel Ja-

cob.

September 2023 Master Research Project Defense, Evaluated short talks given

by first year master students after a 3 months research project.

Projects

December 2019 Goutelas Seminar, Delivered a talk on Riemann's Zeta function

and the distribution of prime numbers.

Spring 2020 Reading Group, Gave two and attended ten talks on quadratic

forms and Diophantine geometry under the supervision of Greg Mc-

Shane as part of a reading and study group.

Winter 2021 Informal Science Education, Wrote an article aimed at high-

school students on pythagorean triples for "Images des Mathématiques"

in collaboration with William Sarem.

2020-2022 **Journal Mathématiques de l'École**, Collaborated with several

other students to administer and publish the Mathematical Journal

of Students of ENS de Lyon.

Personal Skills

Languages French (native), English (C2)

Programming LATEX, Python, Excel, R