

# Abdelmouksit SAGUENI

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## Education

### Ph.D. in Mathematics

2020-2024

Université Claude Bernard Lyon1

Lyon, France

- Writing of 3 articles in mathematics (in the field of geometric measure theory).
- Obtaining theoretical and numerical results for a given optimization problem (area optimization).
- Participation in several conferences and workshops. Presentations of my thesis results.
- Teaching: mathematics and python.

### Master in Pure and Applied Mathematics

2018-2020

École normale supérieure de Lyon (ENS)

Lyon, France

- Courses taken: probability, optimization, and geometry.

## Experiences

### Industrial Problem Solving Workshop

November 2024

Nantes, France

- Application of machine learning techniques on accounting data to anticipate companies failure, a project in collaboration with RCA (see report).

### Industrial Problem Solving Workshop

May 2024

Montreal, Canada

- Application of machine learning techniques to detect fraudulent real estate transactions, a project in collaboration with Revenu Québec (see report).

### Jane Street's Estimathon

September 2023

Paris, France

- The Estimathon is a team-based contest that combines trivia, game theory, and mathematical thinking.

### International Mathematical Olympiad

July 2015

Chiang Mai, Thailand

- An international mathematical competition for the best high school students.

## Technical Skills

**Computer skills:** Python, SQL, LaTeX, machine learning, basics of C, Matlab, and HTML.

**Languages:** English, French, Arabic.

**Mathematics:** statistics, probability, optimization, and geometry.

## Miscellaneous

**Scholarships:** Labex-Milyon Excellence Scholarship 2018-2019 and 2019-2020.

**Volunteering:** Member of the charitable organization "The salvation army".

**Sports:** Running, Swimming, Fitness, Football, Chess.