## marwane.bourdim@etu.u-paris.fr | bourdim.marwane@gmail.com Webpage: https://marwanebourdim.github.io

## Marwane Bourdim

MATHEMATICS MSc STUDENT, UNIVERSITÉ DE PARIS

Education	Université de Paris, Paris, France 2nd year of a Master's degree, Mathematics, Statistics and Machine Learning, 2021-2022
	Sorbonne Université, Paris, France 2nd year of a Master's degree, Mathematical Modeling applied to biology & medecine, 2020-2021
	Université de Paris, Paris, France 1rst year of a Master's degree, Applied Mathematics, 2019-2020
	Université de Paris, Paris, France Bachelor of Science, Pure Mathematics, 2018-2019
	Lycée Jacques Decour, Paris, France Classes Préparatoirese, Mathematics and Physics, 2016-2018
Research Interests	Stochastic processes, Scientific computing, Systems biology, Protein design Drug discovery, Optimal transport, Geometric Deep Learning, Artificial Intelligence
RESEARCH PROJECTS	Mathematical and computational modeling of the Covid-19 pandemic in France with a spatio-temporal stochastic framework,  Supervisors: Prof. Dirk Drasdo and Postdoc. Jules Dichamp April '21 - September '21  - Studied the influence of stochasticity and the configuration of the spatial graph on the epidemic dynamic, making use of Markov Processes, Master equations and the Gillespie algorithm.  - Implementing a human mobility model in Python.  - Co-wrote a forecoming scientific article.
Computer Skills	Languages: C++, Python, R, LATEX Packages and libraries: Pytorch, Pandas, TensorFlow
Languages Spoken	French (native), English (fluent), Spanish (conversational), German (can read).
Extra Interests	Philosophy of science, Economics, drawing, Art History