

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 & medicine, 2020-2021
	Université de Paris, Paris, France 1st 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, Synthetic biology Autonomous learning, Artificial Intelligence
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RESEARCH PROJECTS	Mathematical and computational modeling of the Covid-19 pandemic in France with a spatio-temporal stochastic framework, <i>Supervisors : Prof. Dirk Drasdo and Postdoc. Jules Dichamp April '21 - September '21</i> <ul style="list-style-type: none">- 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.
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COMPUTER SKILLS	Languages: C++, Python, R, Bash, \LaTeX Packages and libraries: Pytorch, Pandas, Bioconductor
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LANGUAGES SPOKEN	French (native), English (fluent), Spanish (conversational), German (can read).
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EXTRA INTERESTS	Philosophy of science, Economics, drawing, Art History...
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