

Marwane Bourdim

MATHEMATICS MSc STUDENT, UNIVERSITÉ DE PARIS

EDUCATION	Université de Paris , Paris, France <i>2nd year of a Master's degree, Mathematics, Statistics and Machine Learning,</i> <i>2021-2022</i>
	Sorbonne Université , Paris, France <i>2nd year of a Master's degree, Mathematical Modeling applied to biology & medicine, 2020-2021</i>
	Université de Paris , Paris, France <i>1st year of a Master's degree, Applied Mathematics,</i> <i>2019-2020</i>
	Université de Paris , Paris, France <i>Bachelor of Science, Pure Mathematics,</i> <i>2018-2019</i>
	Lycée Jacques Decour , Paris, France <i>Classes Préparatoirese, Mathematics and Physics,</i> <i>2016-2018</i>

RESEARCH INTERESTS	Stochastic processes, Scientific computing, Systems biology, Synthetic biology Optimal transport, 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</i> <i>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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