

# Marwane Bourdim

MATHEMATICS MSc STUDENT, UNIVERSITÉ DE PARIS

EDUCATION	<b>Université de Paris</b> , Paris, France <i>2nd year of a Master's degree, Mathematics, Statistics and Machine Learning,</i> <i>2021-2022</i>
	<b>Sorbonne Université</b> , Paris, France <i>2nd year of a Master's degree, Mathematical Modeling applied to biology &amp; medicine, 2020-2021</i>
	<b>Université de Paris</b> , Paris, France <i>1st year of a Master's degree, Applied Mathematics,</i> <i>2019-2020</i>
	<b>Université de Paris</b> , Paris, France <i>Bachelor of Science, Pure Mathematics,</i> <i>2018-2019</i>
	<b>Lycée Jacques Decour</b> , Paris, France <i>Classes Préparatoires, Mathematics and Physics,</i> <i>2016-2018</i>
RESEARCH INTERESTS	Deep Learning, Stochastic processes, Scientific computing, Systems biology Structural Bioinformatics, Genomics, Protein design, Drug discovery
RESEARCH PROJECTS	<b>Mathematical and computational modeling of the Covid-19 pandemic in France with a spatio-temporal stochastic framework,</b> <i>Supervisors : Prof. Dirk Drasdo and Postdoc. Jules Dichamp</i> <i>April '21 - September '21</i> <ul style="list-style-type: none"> <li>- 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.</li> <li>- Implementing a human mobility model in Python.</li> <li>- Co-wrote a forthcoming scientific article.</li> </ul>
COMPUTER SKILLS	<b>Languages:</b> C++, Python, R, $\text{\LaTeX}$ <b>Packages and libraries:</b> Pytorch, Pandas, TensorFlow
LANGUAGES SPOKEN	French (native), English (fluent), Spanish (conversational), German (can read).
EXTRA INTERESTS	Philosophy of science, Economics, drawing, Art History...