PAUL DUBOIS		
PROFILE	With a mathematical background, I am passionate about technology since high school. I am committed to leveraging science for a better world.	
EXPERIENCE	RESEARCH INGEENER / PHD, THERAPANACEA	Oct 2021 – Oct 2024
	Developing adaptative radiotherapy optimization, using Artificial In (Reinforcement Learning) INTERN, ROOM FURNISHER	ntelligence Jul - Sep 2020
	Improved and brought together open-source projects to fit the need INTERN, AIRBUS	•
	Designed tools using SQL, HTML, CSS, and JS; Python for process au	
	KITCHEN CLERK, RESTAURANT "LA PLAGE"	Jun – Jul 2018
	DISHWASHER, RESTAURANT "LA PLAGE" Skills gained: Teamwork, working under time pressure & efficiency	Jun – Jul 2017 7.
EDUCATION	OXFORD, MSC MATHEMATICAL SCIENCES	Sep 2020 – Jul 2021
	Grade average 68% (merit) Courses: Analytic Topology, Category Theory, Approximation of Functions, Theories of Deep learning, Networks, Random Matrix Theory Dissertation on Random Fractals and Branching Processes	
	UNIVERSITY COLLEGE LONDON, MSCI MATHEMATICS	Sep 2016 – Jul 2020
	Grade average: 85% (first) Key courses: Probability, Measure Theory, Spectral Theory, Functional Analysis, Multivariable Analysis, Differential Geometry, Analytic Number Theory, Graph Theory and Combinatorics, Elliptic Curves, Commutative Algebra, High-Performance Computing, Evolutionary Games and Population Genetics	
	Research project on Modular forms mod 2: "Governing Fields for the	ne Hecke Algebra" ————————————————————————————————————
TEACHING	DEEP LEARNING, CENTRALESUPÉLEC (PARIS-SACLAY, FRANCE)	Jan - Apr 2023
	Course for HSB curriculum (3 rd year engineering students), taught in French. Content: deep learning from scratch (back-propagation), perceptron, convolutions, optimizers & learning rates, RNN, U-net, V-net, GANs; with 5 Kaggles created as homework. MATHEMATICS, ESSEC (CERGY, FRANCE) Aug – Sep 2021	
	"Mathematics Refresher" course for DSBA (2 nd year master students), taught in English. Content: basic methodologies for proofs; linear algebra, differential calculus, integration, and asymptotic analysis; prerequisites of the courses in the Master.	
	TUTORIAL SESSIONS, CENTRALESUPÉLEC (PARIS-SACLAY, FRANCE) Coding, Optimization, Algorithms & Complexity; taught in French.	Oct 2021 – May 2024
OTHER	GitHub repository: https://github.com/pauldubois98	

French (Native Speaker); English (Fluent); Driving License (2017)