https://pauldubois98.github.io

PAUL DUBOIS

PROFILE	With a mathematical background, I am passionate about technology since high school I am committed to teaching, and leveraging science for a better world.	
EXPERIENCE	(PART TIME) RESEARCH INGEENER, THERAPANACEA	Oct 2021 – Oct 2024
	Developing adaptative radiotherapy optimization, using Artificial Intelligence.	
	(PART TIME) FREELANCE DATA SCIENTIST	Oct 2021 – Oct 2024
	Various data science projects.	
	INTERN, ROOM FURNISHER	July – Sept 2020
	Created the MVP of the startup, bringing together open-source	
	INTERN, AIRBUS	Jun - Sept 2019
	Designed tools for process automation using SQL, {HTML, CSS, and JS}, and Python.	
	KITCHEN CLERK, RESTAURANT "LA PLAGE"	Jun – July 2018
	DISHWASHER, RESTAURANT "LA PLAGE"	Jun – July 2017
	Skills gained: Teamwork, working under time pressure & efficiency.	
EDUCATION	MSC MATHEMATICAL SCIENCES, OXFORD	Sept 2020 – July 2021
	Grade average 68% (merit)	
	<u>Courses:</u> Analytic Topology, Category Theory, Approximation of Functions, Theories of Deep learning, Networks, Random Matrix Theory.	
	Dissertation on Random Fractals and Branching Processes.	
	MSCI MATHEMATICS, UNIVERSITY COLLEGE LONDON Grade average: 85% (first)	Sept 2016 – July 2020
	<u>Key courses:</u> 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 Hecke Algebra".	
TEACHING	DATA ANALYSIS, IRONHACK (BARCELONA) 9 weeks bootcamp, taught in English.	July - Aug 2023
	<u>Content:</u> Python, SQL, Web Scraping, Tableau, Probabilities & Sta DEEP LEARNING, CENTRALESUPÉLEC (PARIS)	atistics, Basics of Al/DL. Jan - Apr 2023
	Course for HSB curriculum (3rd year engineering students), taught in French. <u>Content:</u> 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)	Sept 2021; Sept 2023
	"Mathematics Refresher" course for DSBA (Master Students), taught in English. <u>Content:</u> basic methodologies for proofs; linear algebra, differential calculus, integration,	
	and asymptotic analysis; prerequisites of the courses in the master.	
	TUTORIAL SESSIONS, CENTRALESUPÉLEC (PARIS) Coding, Optimization, Algorithms & Complexity; taught in Fren	Oct 2021 – Oct 2024
OTHERS	French (Native Speaker); English (Fluent); Driving License (since 2017)	
	GitHub repository: <u>https://github.com/pauldubois98</u>	