Benjamin Dubois-Taine

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EDUCATION

Paris-Saclay University	Paris, France
M.Sc. "Mathematics of Artificial Intelligence", 2nd year	Sep. 2020 – Present
• Relevant courses: stochastic optimization, reinforcement learning, generalization in n	machine learning.
University of British Columbia	Vancouver, Canada
M.Sc. of Computer Science, 1st year	Sep. 2019 - Aug. 2020
• Supervisor: Mark Schmidt.	
• GPA: 4.1/4.3	
• Relevant courses. measure theory, functional analysis, advanced machine learning.	
McGill University	Montreal, Canada
• Supervisor: Tim Holoisel	Sep. 2015 – Dec. 2018
• GPA: 3.94/4.0	
• Relevant courses: non-smooth convex optimization, statistical learning, algorithms a	nd complexity.
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EXPERIENCE	
Graduate Research Assistant	Vancouver, Canada
University of British Columbia	Apr. 2020 – Aug. 2020
• Project: Adaptive variance-reduced stochastic optimization for machine learning (pa	aper to appear soon).
• Supervisor: Sharan Vaswani.	
Graduate Teaching Assistant	Vancouver, Canada
• For a graduate introductory level course in machine learning	Sep. 2019 – Apr.2020
 Tor a graduate inforductory level course in machine learning. Topics included: regression, classification, clustering, kernels, dimensionality reduction 	on, convolutions, etc.
• Held weekly tutorials for students, observed office hours to answer questions, graded	exams and assignments.
Data Science Intern	Montreal, Canada
R&D Team, Giro Inc.	Jan. 2019 – Jul. 2019
• Extracted public transport networks data from different sources in order to better of schedules (C++).	ptimize drivers and bus
• Cleaned up, formatted and visualized data using common libraries (Pandas).	
• Implemented, tested and compared classical machine learning and deep learning algo	rithms on classification tasks.
• Formatted and presented results in a comprehensible way so that non-technical man decisions based on them.	agement teams could make
Undergraduate Research Assistant	Montreal, Canada
McGill University	May 2018 – Aug. 2018
• Pursued research in optimization as a recipient of the Science Undergraduate Resear supervision of Prof. Tim Hoheisel.	rch Award, under the
• Proposed and implemented a Newton-type method for the Fermat-Weber location p Euclidean norm, proving local quadratic convergence under suitable assumptions.	roblem with "weighted"
• Implemented several classical first and second order optimization algorithms to study problem with different norms.	y their convergence on the same
TECHNICAL SKILLS	

Programming Languages: Python, Julia, Matlab, Java, C++, R, IATEX. **Developer Tools:** Git, Visual Studio, PyCharm, Spyder, Jupyter, Eclipse. **Libraries:** NumPy, Matplotlib, Pandas, Scikit-learn, Pytorch, Keras. **Languages:** French (mother tongue), English (fluent), Spanish (basic).