Marc Jourdan

👤 Mai 5, 1995

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Research interests ——

Theoretically well-founded and practically applicable machine learning algorithms. Problems in sequential decision making such as it appears in stochastic bandits, Bayesian optimization, experimental design and reinforcement learning.

Skills ——————

💻 Linux, Windows

</> Python, R, Java, C++

🎓 Machine learning

💼 Organized, hard worker, efficient

⚖ Autonomous, adaptable

👥 Social

Languages ——————

🇫🇷 French (nativ) ● ● ● ● ● ●

🇺🇸 English (TOEFL) ● ● ● ● ○

🇩🇪 German (C1) ● ● ● ○ ○

Education

2018 – 2020	**Data Science MSc** ETHZ, Zürich
	Studied Statistics and Machine Learning. Specialized in bandit algorithms. Obtained with distinction, 5.8/6
2015 – 2019	***Ingénieur* in Data Science (MSc)** École Polytechnique, Palaiseau
	Studied Applied Mathematics and Computer Science. 3.92/4 (top 10%)
2013 – 2015	***Classes Préparatoires*** Lycée Louis-Le-Grand, Paris
	An intensive preparatory course for the competitive entrance exams to top French engineering schools. Studied Mathematics and Physics.

Working Experience

2021, ongoing	**Research Intern** Scool, Inria Lille-Nord Europe and CRIStAL
	Bandit identification with continuous answers under the supervision of Dr. Rémy Degenne.
2020, 6 months	**Master's Thesis** Learning & Adaptive Systems, ETHZ
	Studied pure exploration for combinatorial semi-bandits in the group of Prof. Dr. Andreas Krause.
2020, 2 months	**Teaching Assistant** Department of Computer Science, ETHZ
	Machine Perception (SS2020) taught by Prof. Dr. Otmar Hilliges.
2019, 6 months	**Part time Data Scientist** AMAG Leasing, Zürich
	Created a recommender system for customers and developed models to predict churn and customer recovery.
2018, 5 months	**Research Intern** AI @ Nation Scale, IBM Singapore Lab
	Characterized entities in the Bitcoin blockchain and developed a probabilistic model of its evolution.
2017, 3 months	**Research Intern** STMicroelectronics, Crolles
	Implemented a quantized convolutional neural network in order to synthesize it on a electronic chip.

Publications

2021	**Efficient Pure Exploration for Combinatorial Bandits with Semi-Bandit Feedback**
	Jourdan, M., Mutný, M., Kirschner, J., & Krause, A.
	International Conference on Algorithmic Learning Theory
2019	**A Probabilistic Model of the Bitcoin Blockchain**
	Jourdan, M., Blandin, S., Wynter, L., & Deshpande, P.
	IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops
2018	**Characterizing Entities in the Bitcoin Blockchain**
	Jourdan, M., Blandin, S., Wynter, L., & Deshpande, P.
	IEEE International Conference on Data Mining Workshops

Other Activities

2017, 5 months	**Chief Security Officer** Point Gamma, Palaiseau
	Dealt with several companies to provide the security, the medical assistance and the logistic to organize this event gathering 5500 students. Managed a team of 5 people and the security budget of 60.000 €.
2016, 6 months	**Officer Cadet** Gendarmerie Nationale, Pithiviers
	Assisted the commander of a company and detached in seven different units.

Hobbies

Sports	Tennis, 17 years. Volley-ball, 3 years in competitions. Judo, 3 years.
Cuisine	Patisserie, Asian cuisine.