Aymeric **Côme**

PhD Student

3 bis Boulevard Jeanne d'Arc, 35000 Rennes, France

+33 (0)6 45 44 62 75 | aymeric.come@inria.fr

Education

Master Data Science *Villeneuve d'Ascq, France*

University of Lille *2020 - 2022*

- High level theoretical and practical courses in Data Science, taught in English
- Mathematics (statistics, probability, optimization), Computer Science (algorithmic, complexity, databases), Machine Learning (supervised/unsupervised learning, online learning, signal processing...)

Grande Ecole in engineering *Villeneuve d'Ascq, France*

École Centrale de Lille *2018 - 2022*

- Core subjects : Fluid Dynamics, Programming, Automation, Mathematics, Project Management...

Professional Experience

Dec. 2022 – Today **PhD Student**, Devine team, Inria de l'Université de Rennes, France
Approximation methods for the soundness of control laws derived by machine learning

Oct. 2023 – Jan. 2024 **Teaching assistant**, Université de Rennes, Rennes, France
In License 1 at ISTIC for INF1 (Algorithmic and Experimental Complexity)

Apr. 2022 – Nov. 2022 **Research Intern**, DeLTA group, University of Copenhagen, Denmark
Tight sample complexity bounds for Q-Learning in Semi Markov Decision Processes

Jul. 2020 – Aug. 2020 **Research Intern**, LINK team, Centre Inria de l'Université de Lille, France
Predicting the cardinality of requests on graph databases using statistics

Publications

Côme A., Fabre E., Hélouët L. *A Floyd-Warshall Approach to Value Computation in Markov Decision Processes.* **(submitted)** Quantitative Evaluation of SysTems (QEST) 2024.

Lyu Y., Côme A., Zhang Y., Talebi M.S. *Scaling Up Q-Learning via Exploiting State–Action Equivalence.* Entropy. 2023; 25(4):584. https://doi.org/10.3390/e25040584

Côme A., Lonlac J. *Extracting Frequent (Closed) Seasonal Gradual Patterns Using Closed Itemset Mining.* 2021 IEEE 33rd International Conference on Tools with Artificial Intelligence (ICTAI), Washington, DC, USA, 2021, pp. 1442-1448, doi: 10.1109/ICTAI52525.2021.00229.