

Nicolas Corvol

Engineering student specializing in Operations Research, seeking a PhD opportunity in optimization and machine learning.

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EDUCATION

Conservatoire National des Arts et Métiers <i>Master Parisien de Recherche Opérationnelle (MPRO)</i> <ul style="list-style-type: none">Coursework: Stochastic Optimization, Mathematical Programming, Deep Learning for Combinatorial Optimization, Decomposition Methods, Metaheuristics, Constraints Programming, Scheduling, Graph Theory.	Sep. 2024 – Mar. 2025 <i>Paris, France</i>
Ecole Nationale des Ponts et Chaussées <i>Master's degree in mathematics and computer Science specialized in Optimization.</i> <ul style="list-style-type: none">Coursework : Operations Research, Convex Optimization, Stochastic Processes, Software Development, Game Theory, Machine Learning, Data Science for Business.	Sept. 2021 – Dec. 2025 <i>Paris, France</i>
CPGE Lycée Charlemagne (MPSI/MP*) <i>Two-year intensive preparatory program in Mathematics and Physics.</i>	Sept. 2019 – Jun. 2021 <i>Paris, France</i>
Lycée Seigné <i>Scientific baccalaureate with european section, highest distinction.</i>	Sept. 2011 – Jul. 2019 <i>Paris, France</i>

WORK EXPERIENCE

Padam Mobility <i>Operation Research Intern</i> <ul style="list-style-type: none">Developed a multi-criteria algorithm in Cython, improving parking selection efficiency. Currently in production running daily.Analyzed and reported performance metrics of the metaheuristic.Modeled and implemented MILP for bus stop optimization, enhancing route efficiency. Project presented at the ROADEF 2025, currently in production running daily.	Feb 2024 – Aug. 2024 <i>Paris, France</i>
Polytechnique Montreal, CIRELT <i>Research Assistant (SCALE AI Thibaut Vidal's team)</i> <ul style="list-style-type: none">Conducted a research project in machine learning and optimization using PyTorch.Developed an end-to-end pipeline integrating NLP, neural networks, and optimization for portfolio optimization.	Jul. 2023 – Dec. 2023 <i>Montreal, Canada</i>

ACADEMIC PROJECT

Air Liquide Robust Optimization <ul style="list-style-type: none">Developed robust optimization models for managing uncertainty in renewable energy and hydrogen production.Applied robust optimization methods to plan green hydrogen production under uncertainty.	Jan. 2023 – Jun. 2023
Smart Seating Plans for weddings <ul style="list-style-type: none">Built a web application using MILP to optimize wedding seating arrangements, maximizing guests' satisfaction.	Jan. 2022 – Jan. 2023

LEADERSHIP & VOLONTEERING

ENPC Teaching and Research Council Member <ul style="list-style-type: none">Represented student interests in weekly meetings with school administration.	Jan. 2022 – Dec. 2024
Student Council of Ecole Nationale des Ponts et Chaussées President <ul style="list-style-type: none">Managed an €200,000 budget, leading a team of 18 to organize events for 400+ attendees.	Jan. 2022 – Jan. 2023

SKILLS, LANGUAGES & INTERESTS

Programming Languages: Python, C++, Julia, SQL, R
Tools: GitHub, L^AT_EX, CPLEX, Gurobi, PyTorch, NumPy, Django
Languages: French (Native), English (Fluent, TOEIC 885/990), Spanish (Intermediate, B1)
Hobbies: Cycling - Rugby (part of the Ponts' school team) – Tennis (Competitive level) – Running