

Nicolas Corvol

Future CIFRE PhD student in Operations Research, in collaboration between Renault Group and the CERMICS.

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EDUCATION

Conservatoire National des Arts et Métiers <i>Master Parisien de Recherche Opérationnelle (MPRO)</i>	Sep. 2024 – Oct. 2025 Paris, France
• Coursework: Stochastic Optimization, Mathematical Programming, Deep Learning for Combinatorial Optimization, Decomposition Methods, Metaheuristics, Constraints Programming, Scheduling, Graph Theory.	
Ecole Nationale des Ponts et Chaussées <i>Master's degree in mathematics and computer Science specialized in Optimization.</i>	Sept. 2021 – Dec. 2025 Paris, France
• Coursework : Operations Research, Convex Optimization, Stochastic Processes, Software Development, Game Theory, Machine Learning, Data Science for Business.	
CPGE Lycée Charlemagne (MPSI/MP*) <i>Two-year intensive preparatory program in Mathematics and Physics.</i>	Sept. 2019 – Jun. 2021 Paris, France
Lycée Sevigné <i>Scientific baccalaureate with european section, highest distinction.</i>	Sept. 2011 – Jul. 2019 Paris, France

WORK EXPERIENCE

Renault Group - CERMICS <i>End-of-study Internship (Supervisor: Axel Parmentier)</i>	Apr 2025 – Oct. 2025 Paris, France
• Formulated the car dealer stock replenishment problem as a Markov decision process. • Designed and implemented a combinatorial optimization–augmented ML policy.	
Padam Mobility <i>Operations Research Intern</i>	Feb 2024 – Aug. 2024 Paris, France
• Built a multi-criteria decision algorithm and MILP in Cython for parking and bus stop optimization; deployed in production and presented at ROADEF 2025.	
Polytechnique Montréal (CIRRELT) <i>Research Assistant (Supervisor: Thibaut Vidal)</i>	Jul. 2023 – Dec. 2023 Montréal, Canada
• Conducted research on machine learning and optimization using PyTorch. • Developed an end-to-end prediction–optimization pipeline combining NLP, neural networks, and portfolio optimization.	

ACADEMIC PROJECT

Air Liquide Robust Optimization	Jan. 2023 – Jun. 2023
• Developed robust optimization models for managing uncertainty in renewable energy and hydrogen production.	
Smart Seating Plans for weddings	Jan. 2022 – Jan. 2023
• Built a web application using MILP to optimize wedding seating arrangements, maximizing guests' satisfaction.	

LEADERSHIP & VOLUNTEERING

ENPC Teaching and Research Council Member	Jan. 2022 – Dec. 2024
• Represented student interests in weekly meetings with school administration.	
Student Council of Ecole Nationale des Ponts et Chaussées President	Jan. 2022 – Jan. 2023
• Managed an €200,000 budget, leading a team of 18 to organize events for 400+ attendees.	

SKILLS, LANGUAGES & INTERESTS

Programming Languages: Python, C++, Julia, SQL, R
Tools: GitHub, LATEX, SCIP, Gurobi, PyTorch, NumPy, Django
Languages: French (Native), English (Fluent, TOEIC 885/990), Spanish (Intermediate, B1)
Hobbies: Cycling (climbed Mont Ventoux) - Rugby (Ponts' school team) – Tennis (Competitive level) – Running