

Juan Pablo Cantillana

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Research Interests

Routing Methods, Machine Learning, Logistics, Mathematical Modeling.

Experience

Vienna, AT	Department of Business Decisions and Analytics, University of Vienna
2024 -	<i>Research Staff — Prae-Doc</i>
2025 -	<i>Lecturer of Transportation Logistics for Bachelors</i>
Zurich, CH	Department of Engineering, Nezasa
2023 - 2024	<i>Manager — Research engineer</i>
2020 - 2023	<i>Optimization engineer</i>
Rancagua, CL	Department of Industrial Engineering, Universidad de O'Higgins
2021 - 2021	<i>Lecturer of Applied Statistics for Bachelors</i>
Santiago, CL	Department of Industrial Engineering, Universidad de Chile
2019 - 2020	<i>Research Assistant</i>

Education

Vienna, AT	Doctorate in Business Analytics, Logistics and Operations Research
2024 -	<i>University of Vienna</i>
Santiago, CL	Master of Science in Operations Management
2018 - 2020	<i>Universidad de Chile</i>
Santiago, CL	Bachelor of Science in Industrial Engineering
2013 - 2018	<i>Universidad de Chile</i>

Work in Progress

Learning the Ng-path relaxation in BPC for the CVRPTW

With Christian Tilk, funded by FWF project *Maschinelles Lernen in BPC für Tourenplanungsprobleme*.

Design of a PVRP Heuristic for Parcel Deliveries in a Metropolitan Area

With Fernando Ordóñez, and Cristián Cortés, funded by Agrosuper

TripOptimizer: An optimization-based for trip planning

Main work of José Miguel González, with Fernando Ordóñez, and Cristián Cortés

Technical Skills

Programming	Python (NumPy, PyTorch, Scikit-learn), R, C++, SQL.
Optimization	Linear/Integer Programming, Metaheuristics, Heuristic Design.
Areas	Machine Learning for Combinatorial Optimization, Routing Algorithms, Logistics, Mathematical Modeling.
Tools	Git, Linux, L ^A T _E X, NumPy, PyTorch, Scikit-learn, Gurobi/CPLEX/SCIP/Coin-OR, Docker.

Languages

Spanish (Native)

English (B2)

German (B1)