Juan Pablo Cantillana

Department of Business Decisions and Analytics
University of Vienna
E-mail | GitHub | Personal Website

Research Interests

Routing Methods, Machine Learning, Logistics, Mathematical Modeling.

Experience

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

Education

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

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, LaTeX, NumPy, PyTorch, Scikit-learn, Gurobi/CPLEX/SCIP/Coin-OR, Docker.

Languages

Spanish (Native)	English (B2)	German (B1)