

# Juan Pablo Cantillana

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## Research Interests

Routing Methods, Machine Learning, Logistics and Deliveries, Mathematical Modeling, Industrial applications.

## Experience

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

## Education

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

## Conferences and Workshops

2025 Trento	EURO Working Group on Vehicle Routing and Logistics Optimization VEROLOG presenting <i>Learning the Ng-path relaxation in BPC for the CVRPTW</i> .
2025 Paris	School on Column Generation.
2025 Traunsee	Complex Networks: Analysis and Modelling their Dynamics by IAT.
2024 Krems	ÖGOR Summer-School for PhD-candidates and Post-Docs.
2024 Rancagua	International Workshop on Bilevel Optimization IWOBIP.
2023 Santiago	IFORS, presenting <i>Design of PVRP heuristic for parcel deliveries in a metropolitan area</i> .

## 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 <sup>A</sup> T <sub>E</sub> X, NumPy, PyTorch, Scikit-learn, Gurobi/CPLEX/SCIP/Coin-OR, Docker.

## Internships

2019 Santiago	<i>Experian</i> : Updating implementation of <i>Predicta</i> model for risk assessment.
2018 Rancagua	<i>Agrosuper</i> : Optimize product assignment on the 1st mile.
2025 Malloa	<i>Agrofoods</i> : Statistical process control and documentation of maintenances.

## Languages

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