

Cristian Palma - Mathematical Engineer

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Education:

MSc in Applied Mathematics on Combinatorial Optimization Algorithms, University of Chile. *Chile, 2022 - 2023*
BSc in Mathematics and Computer Science Engineering, École CentraleSupélec. *France, 2019 - 2021*
BSc in Common Plan of Engineering, University of Chile. *Chile, 2017 - 2019*

Work Experience:

Associate Professor at CMAT Mathematical Championship *Chile, 2022*
Mathematical Olympiad training for High School Students.

Software Engineer Intern at Bigblue *France, 2021*
Problem Solving and **Backend** dev on Golang with FoundationDB on e-commerce logistics.
Enabled Eco-friendly Deliveries by **integrating** a Green Carrier to the **Transportation Management System**.
Enabled Invoicing Multiple Countries by extending the **Billing System** with a per Country Configuration.
Reduced Manual Input Errors on Invoices by implementing a **Semantic Validator** and a **Duplicate Verifier**.
Reduced Billing Processing Time by 50% by automatizing the **Batch Import** of Billing Lines.

Research Intern at Sondra Signal Processing Lab *France, 2020*
Testing an Order Selection method for **Image Processing** and **Finance** on Matlab.
Increased Return on Investment on 50% by using Minimum Variance Portfolio.

Academic at CMAT Mathematical Championship *Chile, 2017 - 2019*
Solving problems on Youtube. Suggesting problems for the tests.

Teaching Assistantships:

Combinatorial Algorithms and Mixed Linear Programming at University of Chile *2022*
Partial Differential Equations at École CentraleSupélec *2021*
Measure Theory and Probabilities and Partial Differential Equations at École CentraleSupélec *2020*
Multivariable Calculus at University of Chile *2019*
Algorithms and Data Structures at University of Chile *2018*

Projects:

Insurance Revaluation Optimization using **Clustering** and **Parametric Optimization** on Matlab. *2021*
Noise Control using **Parametric Optimization** of PDE on Python. *2020*
Propagation Maximization Algorithm on Python for a Viral Marketing Campaign. *2020*

Honors:

Eiffel Excellence Scholarship granted by the Ministry of Europe and Foreign Affairs. *2019 - 2021*
First Place on Engineering Generation Ranking, University of Chile. *2018*
Andrés Bello Excellence Scholarship granted by the University of Chile. *2017 - 2022*
Golden Medal at the National Mathematical Olympiad of SOMACHI, Chile. *2016*

Computer Skills:

Writing	MS Office, Jupyter and \LaTeX .	English	Advanced.
Programming	Python, Matlab, JuliaLang, Java, Clang and Golang.	French	Advanced.
Databases	DynamoDB, FoundationDB and MySQL.	German	Elementary.
Environments	VSCode, Command Line and GitHub.	Spanish	Native.

Languages:

Free Time:

Sports Kung Fu (purple belt, mastered stick and saber), Running (finished Paris 10km Run in 52min).
Hobbies **Competitive Programming**, Dancing, Volleyball, Traveling and Practicing other languages.