

# Cristian Palma - Mathematical Engineer

cristian.palma.foster@gmail.com, linkedin.com/in/cristianpalmaf, github.com/elcrislwh

## 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** 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 L <sup>A</sup> T <sub>E</sub> X.	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.