Martin Cepeda

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Education

2019 to 2021	École Polytechnique , M. of Science and Technology in Artificial Intelligence & Advanced Visual Computing.
	"Bourse d'excellence de la Fondation de l'École Polytechnique" laureate. GPA 3.87/4.0
2018 to 2020	École Polytechnique, Cycle Ingénieur Polytechnicien (MSc in Informatics). GPA 3.59/4.0
2015 to 2017	Pontifical Catholic University of Chile, B.S in Electrical Engineering, Minor in Electronics and Telecom-
	munications. Ranked 9 th out of 823 students in my class



C Technical Highlights

Internships:

> Institut Louis Bachelier DataLab (Paris, France, 3 months) as Data Scientist Intern. I created a semi-supervised document classifier using pre-trained GloVe embeddings and clustering algorithms in Python.

Projects:

- > At École Polytechnique: Shape classification using Laplace-Beltrami operator decomposition ●Optimal area polygonalizations in R² •Vanilla 3D scanner using a laptop webcam •Anomaly Detection in Videos using CNNs •Prediction of signal peptide cleavage
- > At UC (Chile): Robot arm simulation and control Web crawler and parser for a linguistics study Switching-Mode Power Supply embedded software and hardware • OpAmp design and testing

Relevant courses:

- > Deep Learning in Computer Vision: image-oriented CNNs in PyTorch
- > Machine Learning: Practical and theoretical basis for supervised, unsupervised and reinforcement learning methods.
- > Algorithmics: Complexity and correctness analysis of several algorithmic paradigms: greedy, dynamic programming, local search, divide & conquer, etc.
- > Computer Vision: Classical techniques such as feature detection, segmentation, object recognition, motion estimation and 3D vision. Done in OpenCV for C++.
- > Geometry Processing & Computational Geometry: curves, meshes, shape analysis, triangulations, graph algorithms and optimal data structures.

🔼 Languages

- > Spanish Native
- > French Fluent in all skills (C2 TCF)
- > English Fluent in all skills (930/990 TOEIC)

</> Programming Languages

- > Python 5 years
- > C++ 2 years
- > MATLAB, Mathematica, Arduino 1 year