

# Full-Resume

Mariano Rodríguez, PhD



Citizenships: Cuban, French

Current Position: Machine Learning Engineer @ Powder

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## Formation

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2020 - 2021	<i>Postdoc in Applied Mathematics</i> École Normale Supérieure Paris-Saclay	
2016 - 2020	<i>PhD in Applied Mathematics</i> École Normale Supérieure Paris-Saclay	
2015 - 2016	<i>Master 2 «Mathématiques, Vision, Apprentissage»</i> École Normale Supérieure Paris-Saclay	Highest Honors
2014 - 2015	<i>Master 1 «Mathématiques et Modélisation»</i> University Paris Descartes	Highest Honors
2007 - 2011	<i>Undergraduate Studies in Mathematics</i> University of Havana	Highest Honors
2002 - 2006	<i>Full-time student</i> Polytechnical Institute of Informatics "Osvaldo Herrera"	Highest Honors

## Prizes and Awards

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2016	Laureate of the Doctoral Program proposed by the “Fondation Mathématique Jacques Hadamard” (FMJH)	Three-year fellowship.
2014	Laureate of the Paris Graduate School of Mathematics (PGSM)	Two-year scholarship.
2011	Top student in the Faculty of Mathematics and Computer Science	Awarded by the vice-chancellor of the University of Havana.
2011	“Roberto Peña” Prize	Awarded by the Cuban Society of Mathematics and Computer Science for “Anisotropic diffusion applied to edge detection in images”.
2011	Best paper in Applied Mathematics	Both prizes on behalf of the Students Scientific Conference for “Anisotropic diffusion applied to edge detection in images”.
2011	Best written paper in Applied Mathematics	
2011	Teaching award	Granted by the Faculty of Mathematics and Computer Science for teaching practical lessons.

## Professional Experience

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**Researcher in Applied Mathematics** with a Postdoctoral position at ENS Paris-Saclay (July 2020 - July 2021). Collaboration with two companies: Huawei (research on denoising algorithms for videos based on deep-learning) and Kayrros (proposal of a CNN cloud detector).

**System administrator Linux/UNIX** (2017 - 2020) in the framework of the project Image Processing Online (<http://www.ipol.im/>) developed by the CMLA of the ENS Paris-Saclay.

**Researcher Assistant** at the CMLA of the ENS Paris-Saclay in the framework of an internship (Avril 2016 - Sept 2016).

**Researcher in Applied Mathematics** with a Teaching Instructor position at University of Havana (2011 - 2014).

## Languages

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- Spanish (Native)
- English (Fluent)
- French (Fluent)

## IT

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- Linux/UNIX
- C & C++
- Python (tensorflow, pytorch, etc)
- MATLAB, Scilab & Octave
- HTML & PHP
- SQL

## Memberships

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- Cuban Society of Mathematics and Computer Science.
- French Society of Mathematics.
- IEEE Signal Processing Society.
- IEEE Computer Society Membership.