



# Miguel López Pérez

*Data Scientist*

## Education

- 2012-2017 **Degree, Mathematics, UGR, Granada, Grade: 7.360/10.**
- 2017-2018 **Msc, Data Science and Intelligent Systems, UGR, Granada, Grade: 8.887/10.**
- 2018-current **Phd, Data Science: Improvement of probabilistic models in histopathology cancer classification, UGR, Granada.**

## Master thesis

- title *Image restoration using deep learning.*
- supervisors Rafael Molina Soriano and Santiago López Tapia.
- description The objective is to combine classic analytical methods of blind image deconvolution with deep learning. The framework we will use to achieve this is HQS optimization (half quadratic splitting).

## Experience

### Vocational

- 2015 **Hackathon: Todos incluidos., Telefónica, Granada.**
- 2015-2016 **Colaborator, AMAT, Granada.**
- 2016-2017 **Member of the Board of Directors, AMAT, Granada.**  
AMAT is the mathematics student association of Granada.

### Professional

- 2018-current **Researcher of the project "Enhancement, classification and interpretation of histological images of cancer" , Visual information Group (Decsai), UGR, Granada.**

## Conferences and workshops

I have always had an interest in the communication and dissemination of knowledge. Especially in the area of science and technology. In my years as undergraduate I have been involved with the divulgation of mathematics. The following conferences and workshops which I have been part of.

Horno de Haza 6, 1A – 18002 – Granada

⌚ 605511664 • ✉ miguellopezjpc@correo.ugr.es

💻 <https://github.com/wizmik12>

I Jornada	<b>Workshop</b> , <i>Origami and Mathematics: Theorems that are hidden behind a sheet of paper</i> , Miguel López Pérez and Jesús Bueno Urbano.
RSME-	AMAT
II Jornada	<b>Workshop</b> , "A mathematical vision of the Alhambra", Miguel López Pérez and Jesús Bueno Urbano.
RSME-	AMAT
End of degree	<b>Conference</b> , <i>The Lax-Milgram's theorem: Origin, generalizations and applications</i> , Miguel López Pérez.
RSME-UGR	
Science fair of Parque de las Ciencias	<b>Workshop</b> , "A mathematical look at magic and the bubbles of soap", AMAT (Mathematical student association).
Asgran	<b>Workshop</b> , "The maths of Rubik's cube, basic and advanced introduction for its resolution", AMAT (Mathematical student association).
Launch of Facultad Cero	<b>Conference</b> , <i>The Open Bacteria Project</i> .
Bioinformatics-GRX	<b>Conference</b> , <i>The Open Bacteria Project</i> .

## Languages

Spanish	<b>Mother tongue</b>	
English	<b>Advanced level</b>	<i>B2, First Certificate of English of Cambridge</i>
French	<b>Basic level</b>	
Italian	<b>Basic level</b>	

## Computer skills

Advanced	Python, R, Matlab, L <sup>A</sup> T <sub>E</sub> X-	Big Data	MongoDB, Spark, Scala, Hadoop, Pig, Hive.
Deep Learning	Tensorflow, Keras, Matlab, Knime.	Other	C++.
Free Hardware	Arduino.		

## Other interests

Chess	I am federated in a chess club.
Photography	I love to immortalize moments.
Sport	For having a good mental health is very important to be active. I usually go running or play basketball.

Horno de Haza 6, 1A – 18002 – Granada

⌚ 605511664 • ✉ miguellopezjpc@correo.ugr.es

↗ <https://github.com/wizmik12>

## Projects

- 2017-2018 **The Open Bacteria Project**, *University research interdisciplinar project for the Impaciencia contest. We are mixing biology, mathematics and computer science. Everything is open source, we can find further details on our GitHub , <https://github.com/TheOpenBacteriaProject>.*

## Prizes

- 2018 **Impaciencia**, *The Open Bacteria Project won the 1st prize and a prize for the best communicative project .*

Horno de Haza 6, 1A – 18002 – Granada

✉ 605511664 • ✉ miguellopezjpc@correo.ugr.es

☞ <https://github.com/wizmik12>