



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.

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

Languages

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

Computer skills

Advanced	Python, R, Matlab, \LaTeX -	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.

Projects

2017-2018 **The Open Bacteria Project**, *University research interdisciplinary 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>.*

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Prizes

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

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