Bartolomé Ortiz Viso

Applied and computational mathematics

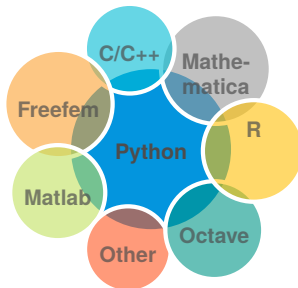### Address
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Web & Git
Personal Blog
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Programming

Personal Skills

Experience

2018	**Mathematician/Co-founder**	Vertigo Biosystems

2 month eHealth project. *Skills: Mathematics and Python*. Analysis of the main health risk prediction equations, testing and coding them into python.

Education

2018	**Master's Degree in Physics and Mathematics**	Granada University, Granada

Biomathematics especialization.
Main studied topics: numerical analysis, computational simulation, cellular dynamics, epidemiology, biostatistics and bioinformatics.

2017	**Bachelor's Degree in Mathematics**	Granada University, Granada

Hihglights in mathematical software,numerical analysis, mathematical modelization, stochastic processes and computational simulation

Bachelor Thesis

Title: *Análisis cualitativo de sistemas dinámicos con origen biológico*.
Supervisors: Óscar Sánchez and Juan José Nieto
Description: *Theoretical and computational analysis of several models related to biomathematics (cellular cycles, ecology cycles, etc). Highlights in bifurcation from both theorical and numerical points of view.*
Grade: 9,6/10

Master Thesis

Title: *New mathematical model for the Shh signaling system.*
Supervisors: Óscar Sánchez
Description: *Creation and computational analysis of a new model for the signaling system induced by Shh protein.*
Grade: 9/10

Courses and seminars

2018	**Advanced Python for science and technology**	Granada University
2018	**Numerical analysis of PDE's and Approximation**	Castilla La-Mancha University
2018	**II Bioinformatics seminars**	Granada University
2017	**Mathematical Oncology Summer School**	Castilla La-Mancha University

2017	**Mathematical research seminars**	IEMath∗ y RSME∗∗

∗ Math Institute (University of Granada) and ∗∗Spanish Mathematical Society (RSME)

2017	**Science communication course**	Spanish Foundation for science and Technology

(FECYT), IAAA, HdC

2017	**I Symposia of bioinformatics**	Granada University
2016	**Data Science and big data seminars**	Granada University
2016	**Latex and MarkDown for science**	Granada University
2015	**National Congress of Mathematics Students**	Salamanca University

Online courses include: Machine learning in Python and R, Cancer Genomics, Bash Shell Scripting, Bioinformatics tools in Python and R, Python and SQL for Data Science, and R (certificates linked in my LinkedIn). Currently studying deep learning.

Projects and grants

2017- Now	**The Open Bacteria project**	Impaciencia interdisciplinary science competition

We are a team of one biologist, two C.S. engineers and three mathematicians that are creating a virtual enviroment to simulate, share and predict bacteria's growth experiments based on mathematics and AI. *1st prize in the National Science Competition: Impaciencia*

2017- Now	**BioinformaticsGRX**

Founder of the group BioinformaticsGRX. We give talks, develop code and expand bioinformatics knowledge at Granada university

2016	**Aerospace group Granasat SummerCamp**	GRANASAT and UGR

Summer grant: I developed the algorithms used at the stratospheric balloon tracking system and the dynamic orientation of motorized directional antennas with a team of C.S. and telecom. engineers

Voluntary work

2015-2017	**Math Student Association: President**	Granada university

2015-2017	**Department of Applied Mathematics Council: Student member**	Granada university

2015-2017	**Academic committe coordinator (Science Delegation of Student)**	Granada university

I also colaborate with other communities like **Interferencias** (hacking and internet rights), **Parque De las Ciencias** (Coordinator in Science Fairs) and **AsGRAN** (High IQ community in Granada)

Science communication and talks

| 2018 | **Math + Censorship to control people's opinions** | ETSIIT-Granada University |
| | Conference of anonymity, privacy and computer security JASYP (2018 ed.) | |

| 2018 | **Math behind Art: Turbulence and fractals** | RSME, AMAT y Granada University |

| 2017 | **Collective animal behavior** | RSME,AMAT y Granada University |

| 2017 | **Biometrics: Our body threats our privacy** | ETSIIT-Granada University |
| | Conference of anonymity, privacy and computer security JASYP | |

| 2016 | **The Poincaré bendixon theorem** | Math Student Association (AMAT) |