

Career Objective

Applied mathematician and machine learning researcher. Pro-efficiency in scientific communication. I have experience working in interdisciplinary groups obtaining, cleaning and analyzing data. I build tools based on ML/DL algorithms. I'm looking for interdisciplinary challenges where my skills could help in the development of new technologies to tackle social and environmental issues.

Education

UNIVERSITY OF GRANADA

PHD COMPUTER SCIENCE

Present Granada, SP

Multiobjective recommendation algorithms, XAI, food computing.

U. GRANADA/CLM

MSC. MATHEMATICS AND PHYSICS

Sep 2018 Granada, SP

Spec. in Biophysics and Biomathematics.

U.GRANADA

BSC. MATHEMATICS

Sep 2017 Granada, SP

Spec. Mathematical Modelling.

Links

Linktree [Linktree/bartortiz](#)

GitHub [thebooort](#)

Twitter [@bortizmath](#)

Podcast [@TheFluxions](#)

LinkedIn [Bartolome Ortiz](#)

Skills

DATA SCIENCE

Python • R • PHP • C/C++ •

SQL/no-SQL • Git

ADDITIONAL

Excel • \LaTeX •

Tableau/DataWrapper/Flourish •

Adobe Photoshop • Trello/Jira • OBS •

Audacity

Prizes

BEST PODCAST PRODUCTION

UNIVERSITY OF GRANADA

Awarded to our podcast TheFluxions (in collaboration with MedialabUGR and IMAG).

1ST PRIZE AND BEST COMMUNICATION CAMPAIGN PRIZE

UNIVERSITY OF MALAGA

National award for multidisciplinary scientific projects. Web-based app for visual bacteria monitoring.

Experience

ASSOCIATED RESEARCHER

UNIVERSITY OF GRANADA / UNIVERSITY OF AARHUS

Dec 2018 – Present Granada, SP / Aarhus, DK

- Part of the TIC research group of the H2020 European Research project: Stance4Health Smart Technologies for personalised Nutrition and Consumer Engagement.
- Build hybrid recommendation systems.
- Get, clean and process data from structured and unstructured sources (user behaviour). Build and modify our Database.
- Develop dashboards to show data. Apply ML pipelines to classify and predict outcomes.
- Work with/for Biology, Nutrition, Bioinformatics, Business and Social Sciences teams.

MACHINE LEARNING INTERN

VERTIGO BIOSYSTEMS

Jun 2018 – Sep 2018 Granada, SP

- Data acquisition. Health risk prediction based on math models. Dissemination and meetings about the work.

Publications and Communications

RESEARCH

RESEARCH PUBLICATIONS (A SELECTION)

Dec 2019 – Now,

- Conference Paper: Evolutionary Approach in Recommendation Systems for Complex Structured Objects (ACM Recsys'20)
- Conference Paper: Unsupervised approach to improve explainability in health-based recommendation systems
- Journal paper: *Development of an Unified Food Composition Database for the European Project "Stance4Health"*
- Journal paper: *Stance4Health Nutritional APP: A Path to Personalized Smart Nutrition*
- Journal paper: *Evolutionary Approach for Building and Recommending Complex Items With Application in Nutritional Interventions*

GENERAL AUDIENCE

TALKS AND PROJECTS AIMING A BROAD AUDIENCE

Jan 2013 – Now

- Organization and Talks in science communication events: PintOfScience, BCNspiracy, 3MinuteThesis, Gifted Child Association, Science Fairs, Podcasts, Math workshops.

Groups and associations

The Fluxions, PydataGRX, Scenio, Interferencias, BioinformaticsGRX, Mathematics Students Association, Royal Society of Mathematics