Alexander Olza
Research Technician

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🇬🇧 Fluent English (CAE- Cambridge)   🇪🇸 Native Spanish   Fluent Basque (EGA)

About me Passionate early stage researcher, interested in mathematical modelling, machine learning and artificial intelligence applied to health and social welfare. Looking for a related PhD project.

Education

2020-2021, UPV/EHU, Zaragoza, La Laguna, La Rioja, Oviedo, UPNA Universities
Master's Degree in Mathematical Modelling and Research, Statistics and Computing.

2014-2020, UPV/EHU
University Degree in Physics.
Bachelor's degree thesis in computational astrophysics: *Modelling solar evolution with MESA and EVTwin.*

2012 - 2014, IES Iturrama BHI
GCE in Health Science.

Experience

April 2021- Ongoing, BCAM
Research Technician. *Big Data and artificial intelligence for patient stratification: healthcare resource planning, design and implementation of interventions.*

January-June 2021, Quarizmi AdTech
External collaboration and Master's Thesis in online advertisement automation. *Predicting the conversion ratio of long-tail keywords.*

Technical Skills

Structured and Object-Oriented Programming

- Python ★ ★ ★ ★
- Keras ★ ★ ★
- Pandas ★ ★ ★ ★
- Scikit-Learn ★ ★ ★ ★
- R ★ ★ ★
- Fortran ★ ★ ★ ★
- SQL ★ ★
- Mathematica ★ ★ ★
- Java ★ ★
- C++ ★ ★
- LaTeX ★ ★ ★ ★
- Linux ★ ★ ★ ★

Conference presentations

August 2022, EPI2022
XL Reunión Anual de la Sociedad Española de Epidemiología (San Sebastián).

- Oral presentation: *Sesgo de género en los modelos predictivos para la probabilidad de ingreso hospitalario entre hombres y mujeres del País Vasco.*
- First author of: *Diferencias de género en los factores de riesgo de ingreso hospitalario en la población del País Vasco.*

October 2021, JEDE5
V Congreso de Jóvenes Investigadores en Bioestadística y Diseño de Experimentos (Almería).
Oral presentation: *Estratificación poblacional según necesidades sanitarias futuras: Comparativa de modelos predictivos para el País Vasco.*

Courses and Conference attendances

XXXV International Workshop on Statistical Modelling
July 2021, BCAM (Online)

First Bilbao Workshop on Algorithmic Fairness
June 2021, BCAM (Online)

IUMA day on Mathematical Optimization for Data Science
March 2021, IUMA- University of Zaragoza

Decisions, Data and Machine Learning
November 2020, BCAM

Recognitions

2021, UPV/EHU
Honors in Introduction to Data Mining

2017-2019, UPV/EHU
Honors in Electromagnetism I, Modern Physics and Solid State Physics I

2014, IES Iturrama BHI
Graduated GCE with Honors

2012, Gobierno de Navarra
Academic Program in Glebe Collegiate Institute, Ottawa. Awarded to the best 60 academic records in Navarra