ALEJANDRO BAREA MORENO | Curriculum Vitae

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○ GitHub • in LinkedIn • ⓑ Blog

SUMMARY

MSc Student at Sorbonne Université. Currently doing an internship in the IBENS focusing on PDEs and their applications to physics and biology.

EDUCATION

SORBONNE UNIVERSITÉ   9/2023 - ...
M2 Mathématiques de la modélisation   Paris, France
Majeure Mathématiques pour la biologie

UNIVERSIDAD DE SEVILLA   9/2018 - 6/2023
Doble Grado en Física y Matemáticas   Seville, Spain

SORBONNE UNIVERSITÉ   9/2021 - 6/2022
ERASMUS Programme   Paris, France

UNIVERSIDAD DE SEVILLA   9/2022 - 6/2023
Collaboration grant   Seville, Spain
Collaboration with the Department of Numerical Analysis and Differential Equations on the numerical and mathematical analysis of models in neurophysics.

UNIVERSIDAD DE SEVILLA   11/2022
Course   Seville, Spain
Applications of the structural stability framework to study community ecology.

EXPERIENCE

RESEARCH INTERN   3/2024 - 9/2024
Institut de Biologie de l'École Normale Supérieure   Paris, France
Modelling and computing the transient response of the Poisson-Nernst-Planck model in celullar nanodomains

VOLUNTEERING

LIBRARY ASSISTANT   7/2020 - 8/2023
AIDA Books & More   Jerez de la Frontera, Spain
Worked as a cashier and helped organising and cleaning the library

EXAM SUPERVISOR   2018,2019
SAEM Thales   Seville, Spain
Supervised and assisted in the organization of the "CO+" mathematical olympiad exams in 2018 and 2019.

SKILLS

PROGRAMMING LANGUAGE	**Experienced:** Python **Familiar:** C | Javascript | Latex
FRAMEWORKS & TOOLS	Git | Excel | COMSOL | Linux | Matlab | Vim
LIBRARIES	matplotlib | pandas | numpy | sklearn
LANGUAGES	**Native:** Spanish | **Fluent:** English | French | **Intermediate:** German

Honors & awards

PREMIO EXTRAORDINARIO DE BACHILLERATO
Junta de Andalucía
Received the 1st place in Cádiz and the 4th in Andalusia

2018

MATRÍCULA DE HONOR DE BACHILLERATO
LAUDE El Altillo School

2018

CERTIFICATE OF OUTSTANDING ACHIEVENT AT "FORMULO DE INTEGRECO"
Euler Foundation
Certificate of outstanding achievement for excellent performance at the educational multidisciplinary summer camp "Formulo de Integreco" in Garbolovo Rusia, organized by Leonhard Euler International Charitable Foundation for Mathematics

2017

PARTICIPATION IN ESTALMAT
SAEM Thales
Selected for the project "Detection and Stimulation of early talent in mathematics" (ESTALMAT), in which I took part between 2014 and 2018

2014-2018

Certifications

CAMBRIDGE CERTIFICATE IN ADVANCED ENGLISH (C1)
Cambridge University Press & Assessment English

6/2016

DIPLÔME D'ÉTUDES EN LANGUE FRANÇAISE DELF B2
Ministère de l'Éducation nationale, de la Jeunesse et des Sports

1/2017

GOETHE-ZERTIFIKAT B1
Goethe-Institut

9/2022

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Dirección General de Tráfico

11/2023