ALEJANDRO BAREA MORENO | Curriculum Vitae

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Paris. France

Paris, France

Seville, Spain

SIIMMARY

Mathematician and physicist specialising in mathematical biology. Currently working as a mainframe developer at Sopra Steria.

Experience _____

JUNIOR DEVELOPER 12/2024 - · · ·

Sopra Steria Seville, Spain

Technical support and consultancy for mainframe systems and databases.

RESEARCH INTERN 3/2024 - 9/2024

Institut de Biologie de l'École Normale Supérieure

Modelling and computing the transient response of the Poisson-Nernst-Planck model in celullar nanodomains

Piiri ications.

Journal articles:

• Paquin-Lefebvre F, Barea Moreno A, Holcman D. Voltage Laws in Nanodomains Revealed by Asymptotics and Simulations of Electro-Diffusion Equations.

EDUCATION _____

SORBONNE UNIVERSITÉ 9/2023 - 9/2024

M2 Mathématiques de la modélisation

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 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.

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

ORKS & TOOLS Git | Excel | COMSOL | Linux | Matlab | Vim LIBRARIES matplotplib | pandas | numpy | sklearn

LANGUAGES Native: Spanish | Fluent: English | French | Intermediate: German

Honors & Awards ____

PREMIO EXTRAORDINARIO DE BACHILLERATO 2018

Junta de Andalucía

Received the 1st place in Cádiz and the 4th in Andalusia

MATRÍCULA DE HONOR DE BACHILLERATO 2018

LAUDE El Altillo School

CERTIFICATE OF OUTSTANDING ACHIEVEMENT AT "FORMULO DE INTEGRECO" 2017

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

PARTICIPATION IN ESTALMAT 2014-2018

SAEM Thales

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

Certifications ____

CAMBRIDGE CERTIFICATE IN ADVANCED ENGLISH (C1) 6/2016

Cambridge University Press θ Assessment English

DIPLÔME D'ÉTUDES EN LANGUE FRANÇAISE DELF B2 1/2017

Ministère de l'Éducation nationale, de la Jeunesse et des Sports

GOETHE-ZERTIFIKAT B1 9/2022

Goethe-Institut

PERMISO DE CONDUCCIÓN B (DRIVING LICENSE) 11/2023

Dirección General de Tráfico