Afra Salazar

PhD Student — Department of Fundamental Microbiology

University of Lausanne, Switzerland

Contact information

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EDUCATION

2021 -	Doctoral School of the Faculty of Biology and Medicine PhD in Life Sciences University of Lausanne
2019 - 2021	Erasmus Mundus Master Programme in Evolutionary Biology (MEME) Master in Sciences University of Groningen & University of Montpellier
2015 - 2019	Undergraduate Program of Genomic Sciences Bachelor in Sciences National Autonomous University of Mexico (UNAM)

populations

RESEARCH EXPERIENCE		
2021	Student visitor at the Centre for History and Philosophy of Science Six-month master project University of Leeds, United Kingdom Supervised by Dr. Ellen Clarke Philosophical analysis on the evolutionary individuality of bacterial plasmids	
2020	Research intern at the Groningen Institute for Evolutionary Life Sciences Six-month master project University of Groningen, The Netherlands Supervised by Dr. Marjon de Vos & Dr. Sander van Doorn Built a mathematical model to study the long term evolution of plasmid host ranges	
2020	Research intern at MIVEGEC Three-month master project University of Montpellier, France Supervised by Dr. Samuel Alizon Built an epidemiological model to study the evolutionary conditions governing symptom onset rates of infectious diseases	
2019	Research intern at the Department of Fundamental Microbiology Six-month internship University of Lausanne, Switzerland Supervised by Dr. Sara Mitri Built a mathematical model to design antibiotic treatments based on microbiota composition to reduce resistance	
2018	Research intern at the Department of Fundamental Microbiology Summer internship University of Lausanne, Switzerland Supervised by Dr. Sara Mitri Built a mathematical model mapping out the effects of different antibiotic treatment strategies on the microbiota of individual patients	
2016 - 2018	Research Intern at the Laboratory of Systems and Synthetic Biology 22-month internship Center of Genomic Sciences, Mexico Supervised by Dr. Rafael Peña Miller	

Built a computational models to study plasmid population dynamics in bacterial

TEACHING EXPERIENCE

2018 Teaching assistant of Introduction to Linear Algebra

Undergraduate program of Genomic Sciences | UNAM Provided one-on-one assistant instruction for 24 students

HONORS AND AWARDS

2019 Erasmus Mundus Joint Master Degree (EMJMD) Scholarship

By the European Commission

Selected as one of six high-ranked students of the MEME Cohort 2019-2021 Awarded with EUR 49000

2018 The School of Biology Summer Undergraduate Research Programme

By the Faculty of Biology and Medicine, University of Lausanne Selected out of nearly 250 international students of medicine and biology Awarded with CHF 3200, plus travel expenses

2018 Research Methods Training Scholarship

By SEP-UNAM-FUNAM

Selected to carry out an undergraduate internship at the University of Lausanne Awarded with MXN 85000

CONFERENCES

2021 On Plasmid Evolutionary Individuality

Centre for History and Philosophy of Science | University of Leeds Invited talk

TECHNOLOGY	LANGUAGES
Programming Languages:	Spanish (native) & English (C1)

Julia, R, Python

Other:

LaTeX, Wolfram Mathematica, M. Office