Frida Sophia Orozco Ruiz

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Interested in Gene Network Evolution and their Non-linear Dynamic properties applied to the Complex Biological System of Cancer.

Education

M.Sc., Life Sciences

ÉCOLE NORMALE SUPÉRIEURE (ENS) - PSL

2022 - 2023

- · Graduated with honors
- · Systems biology, genomics and bioinformatics speciality

B.Sc., Genomic Sciences

Querétaro, México

NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO (UNAM)

· Graduated with honors

2018 — 2022

Research Experience

Research Engineer

COMPUTATIONAL SYSTEMS BIOLOGY OF CANCER (U900), INSTITUT CURIE

PROJECT – Development of Boolean Models on the topics of EMT and MET

Master 2 thesis student

COMPUTATIONAL SYSTEMS BIOLOGY OF CANCER (U900), INSTITUT CURIE

January 2023 - June 2023

November 2023 - Present

- PROJECT Literature based Boolean Modeling of Epithelial to Mesenchymal Transition (EMT) and the reverse process (MET) in cancer
- Supervision Laurence Calzone, PhD

Undergradute thesis student

Querétaro, México

EVOLUTIONARY SYSTEMS BIOLOGY LABORATORY, INTERNATIONAL LABORATORY FOR HUMAN GENOME RESEARCH

February 2021 - August 2022

(LIIGH), NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO (UNAM), JURIQUILLA CAMPUS

- PROJECT Expression and Evolutionary Dynamics of a Genetic Circuit with Positive and Negative Feedback Loops
- · Supervision Mariana Gómez-Schiavon, PhD

Research intern Querétaro, México

THE CANCER GENETICS AND BIOINFORMATICS LABORATORY, INTERNATIONAL LABORATORY FOR HUMAN GENOME RESEARCH

August 2021 - March 2022

(LIIGH), NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO (UNAM), JURIQUILLA CAMPUS

- PROJECT Characterization of immune infiltration and tumor microenvironment in Acral Lentiginous Melanoma using deconvolution methods on bulk RNA-seg data
- Supervision C. Daniela Robles-Espinoza, PhD

Computer Skills and Languages

COMPUTER SKILLS

- Most experience R and R Studio, Bash, Git
- Some experience Python, Matlab, C++, Perl, HTML, Php, MySQL
- Bioinformatic skills RNA-seq, ChIP-seq

LANGUAGES

- · Spanish Native
- · English Fluent

Talks, Posters and Selected Course Attendances _

PerMedCoE summer school: from pathway modelling tools to cell-level simulations

EMBL-EBI EUROPEAN BIOINFORMATICS INSTITUTE

Poster presentation: 'Boolean Model of Epithelial to Mesenchymal Transition and Mesenchymal to Epithelial Transition in Cancer Cells'

4th International Summer Symposium on Systems Biology (SysBioMX 4)

México

INMEGEN INSTITUTO NACIONAL DE MEDICINA GENÓMICA

2022

• Small talk and poster presentation: 'Expression and Evolutionary Dynamics of a Genetic Circuit with Positive and Negative Feedback Loops'

Computational Systems Biology of Cancer: Multimodal Data Integration

Paris, France

INSTITUT CURIE

2022

Academic Writing Course

Querétaro, México

NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO (UNAM)

2022

Schoolarships

Q-Life master scholarship

Paris, France

ÉCOLE NORMALE SUPÉRIEURE (ENS) - PSL

2022

• Awarded on a competitive basis by the Q-Life Institute of Convergence

Teaching Experience

Systems Biology, Undergraduate course for Genomic Sciences Program

Querétaro, México

NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO (UNAM), JURIQUILLA CAMPUS

Spring 2022

- Teaching Assistant and Guest Lecturer: 'Principles of biochemical oscillators'
- Course professor: Dr. Mariana Gómez-Schiavon

Certifications_

Teachig Knowledge Test (TKT)

Querétaro, México

CAMBRIDGE ENGLISH

2017