SOFÍA SALAZAR MAGAÑA

Senior undergraduate student of Genomic Sciences. Interested in AI applications in the analysis of genome data and its harmonization with bioinformatic techniques

🎓 EDUCATION

September 2020 | Present

B.Sc.,Genomic Sciences

Escuela Nacional de Estudios Superiores (ENES) Juriquilla, National Autonomous University of Mexico (UNAM)

📍 Querétaro, México

- Grade: 9.88/10

May 2017 | May 2020

High School Diploma

Monterrey Institute of Technology and Higher Education (ITESM)

📍 Morelia, México

- Grade: 9.69/10

💻 RESEARCH EXPERIENCE

September 2023 | Present

Undergraduate Researcher

Im Lab, The University of Chicago

📍 Remotely

- Hae Kyung Im, PhD
- Conducted performance testing and workflow assembly for deep-learning software designed to predict genomic features.

January 2022 | August 2023

Undergraduate Researcher

RegGenoLab, International Laboratory for Human Genome Research (LIIGH), National Autonomous University of Mexico (UNAM)

📍 Querétaro, México

- Alejandra Medina-Rivera, PhD
- Assembled a bioinformatic pipeline for analysis of RNA-seq data and and conducted differential expression analysis across multiple datasets of Lupus patients and unaffected controls

CONTACT

- ✉ sogusama02@gmail.com
- 🐦 ssalazar_02
- ⭘ github.com/SophSM
- 🔗 sophsm.github.io

PROGRAMMING LANGUAGES

Expertise: R and Rstudio, Python, Git, Bash, C++, C#
Familiarity: MySQL, HTML, PHP, Perl

LANGUAGES

Spanish - Native
English - Proficient
French - Intermediate

Made with the R package pagedown.

The source code is available on github.com/SophSM/CV.

Last updated on 2024-03-12.

TEACHING EXPERIENCE

2023

Guest lecturer at bioinformatics institutional course
Bioinformatic Fridays 2023 course, International Laboratory for
Human Genome Research (LIIGH)

📍 Querétaro, México

· Lectured on introduction to R lenguage usage for data analysis
· Undergraduate to graduate level class

2023

Lecturer at RNA-seq analysis workshop
International Laboratory for Human Genome Research (LIIGH)

📍 Querétaro, México

· Lectured on RNA-seq analysis workflow using STAR and R
· Graduate level class

TALKS AND POSTERS

February 2024

Academic Days at LIIGH Symposium 2024
Talk

📍 Querétaro, México

· Studying the Systemic Lupus Erythematosus expression signature and
  contextualizing it in a Mexican cohort

February 2023

Academic Days at LIIGH Symposium 2023
Poster

📍 Querétaro, México

· Lupus peripheral blood meta-analysis with Recount3 & Recount3-like
  processed RNA-seq data

November 2022

ISCB-LA SoIBio BioNetMX International Conference on Bioinformatics 2022
Poster

📍 Querétaro, México

· Lupus peripheral blood meta-analysis with Recount3 & Recount3-like
  processed RNA-seq data

COURSES

March 2024

Night Science Workshop: The creative scientific process
International Laboratory for Human Genome Research (LIIGH)

📍 Querétaro, México

· Main instructor: Itai Yanai, PhD

January 2024

Google's Data Analytics Professional Certificate
Google - Coursera

📍 Online

· Credential ID: KEBDX9FHLDSG

November 2022

Workshop: Analysis of biological and biomedical transcriptomic data using Artificial Intelligence (AI) and Machine Learning (ML) methods with R

ISCB-LA SoIBio BioNetMX International Conference on Bioinformatics 2022

📍 Querétaro, México

· Multiple Instructors

January 2022

Introduction to the logical modeling of cellular networks, with applications to cancer and immunology.

International Laboratory for Human Genome Research (LIIGH)

📍 Querétaro, México

· Main instructor: Denis Thieffry, PhD, (ENS, Paris)

November 2021

Academic Writing in English course

National School of Superior Studies (ENES) Juriquilla, National Autonomous University of Mexico (UNAM)

📍 Querétaro, México

· Main instructor: M.S. José Antonio Alonso-Pavón