

# 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 conducted differential expression analysis across multiple datasets of Lupus patients and unaffected controls

## CONTACT

✉ [sogusama02@gmail.com](mailto:sogusama02@gmail.com)

🐦 [ssalazar\\_02](https://twitter.com/ssalazar_02)

📄 [github.com/SophSM](https://github.com/SophSM)

🌐 [sophsm.github.io](https://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](https://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 language 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 SolBio 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**

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

📍 Querétaro, México

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