

# SOFÍA SALAZAR MAGAÑA

Genomic scientist and bioinformatician. Interested in AI applications for the analysis of genome data and its harmonization with bioinformatic techniques



## EDUCATION

2020  
|  
2024



### B.Sc., Genomic Sciences

National Autonomous University of Mexico (UNAM)

📍 Querétaro, México

• Grade: 9.89/10



## RESEARCH EXPERIENCE

September  
2023  
|  
Present



### Research Intern

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  
|  
September  
2023



### Research Intern

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



## TEACHING EXPERIENCE

June  
2024



### TA at Quantitative Genomics Training Boot Camp

Columbia University

📍 Remotely

- Assisted students solving software issues

## CONTACT

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🐦 [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:** SQL, HTML, PHP, Perl

## LANGUAGES

Spanish - Native

English - Proficient

French - Intermediate

Made with the R package  
[pagedown](https://github.com/jgm/pagedown).

The source code is available [on](https://github.com/SophSM/CV)  
[github.com/SophSM/CV](https://github.com/SophSM/CV).

Last updated on 2024-08-01.

- 2024 ● **Guest lecturer at bioinformatics institutional course**  
 Bioinformatic Fridays 2024 course, International Laboratory for Human Genome Research (LIIGH)  
 📍 Querétaro, México
  - Two lectures: “Generating diverse graphics on R using ggplot2” & “Data manipulation to create heatmaps on R with ComplexHeatmap”
  - Graduate level class
- 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

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



## CERTIFICATIONS

February  
2024  
|  
April  
2024

● **Intro to AI-driven Science on Supercomputers**

Argonne National Laboratory, IL, USA

📍 Online

• Multiple Instructors

• Credential ID: a1ff9ac49d6d6754ce667fae36f8ad83f8fe93a5

January  
2024

● **Google's Data Analytics Professional Certificate**

Google - Coursera

📍 Online

• Credential ID: KEBDX9FHLDSC