

LUCIA RAMIREZ-NAVARRO

Interested in bioinformatics and the application of statistical methods to unravel mechanisms that affect gene expression and its relationship to human diseases



EDUCATION

2016 –
Present

● **National Autonomous University of Mexico (UNAM), Cuernavaca, Mexico**
Bachelor in Genomic Sciences (LCG)



RESEARCH EXPERIENCE

2017–
Present

● **Research assistant**
International Laboratory for Human Genome Research (LIIGH), Queretaro, Mexico
Dr. Alejandra Medina Rivera

- Characterization of the regulatory effect of genetic variants located in promoters with enhancer activity and its relationship with human diseases
- Differential expression among smokers with or without COPD, using several integration tools

2019

● **Globalink Research Intern**
Queen's University, Kingston, Canada
Dr. Robert Gooding

- Pancancer analysis of the relationship between methylation and gene expression
- Biomarker discovery using methylation and gene expression for prostate cancer

2017–
2018

● **Systems biology workshop**
Center for Genomic Sciences (CCG), Cuernavaca, Mexico
Dr. Julio A. Freyre-González

- Inference of regulatory networks

2018

● **Summer Scholar**
Stowers Institute for Medical Research, Kansas, US.
Dr. Ariel Bazzini

- Codon composition explains mRNA changes between tissues, splicing isoforms and protein levels

2017–
2018

● **Research assistant**
Biotechnology Institute (IBT), Cuernavaca, Mexico
Dr. Celina Garcia Melendrez

- Cyclosporine effects in regeneration with mouse models

CONTACT INFO

✉ lucia.grmz@gmail.com

🐦 [luci_rmz](https://twitter.com/luci_rmz)

COMPUTING SKILLS

Expertise: R and Rstudio,
Python, Git and Bash

Familiarity: Perl, C, Php,
Html, Mysql

LANGUAGES

English

French

Portuguese

This resume was made with the R
package **pagedown**

Last updated on 2020-09-16.

2016



Summer intern

University of Chile, Santiago, Chile

Dr. Jenny Fiedler Temer

- Training in molecular and genomics techniques



PUBLICATIONS



- Santana-Garcia, W., Rocha-Acevedo, M., **Ramirez-Navarro, L.**, Mbouamboua, Y., Thieffry, D., Thomas-Chollier, M., ... & Medina-Rivera, A. RSAT variation-tools: An accessible and flexible framework to predict the impact of regulatory variants on transcription factor binding. *Computational and Structural Biotechnology Journal* 2019. doi: 10.1016/j.csbj.2019.09.009



TALKS AND POSTERS

2020



ISMB2020

Talk : Characterization of regulatory variants in promoters with enhancer activity and their relation with human diseases

📍 Virtual

2020



Undergraduate Poster Competition

Poster: Characterization of regulatory variants in promoters with enhancer activity and their relation with human diseases

📍 King Abdullah University of Science and Technology (KAUST)



HONOURS AND AWARDS

2019



Mitacs globalink research internship

Awarded a scholarship to participate in a 12-week research internship under the supervision of Canadian university faculty members.

2018



Stowers summer scholars program

Selected to participate in an independent research project under the direction of an investigator from the institute during 8 weeks.

2016



SEP-UNAM scholarship

Awarded a scholarship to go abroad and work in a research project for two months.

2015



XXV olympic chemistry

Won third place in the statewide tournament



TEACHING EXPERIENCE

2020



Lecturer in Bioinformatics II: Epigenomic analysis

Campus UNAM Juriquilla, Mexico

2019



Instructor in the Workshop in Advanced Bioinformatics

Campus UNAM Juriquilla, Mexico

2018



Teaching assistant for the course: *Introduction to bioinformatics*

CCG, Mexico



COURSES

- 2020 ● **Logical modeling of cellular networks: formalism, software, and applications**
UNAM, Campus Juriquilla
- 2019 ● **I Interinstitutional Workshop on Data Science and Artificial Intelligence**
UDLAP, Puebla
- 2019 ● **Statistics for Genome Wide Association Studies**
UNAM, Campus Juriquilla
- 2018 ● **Workshop in Deep Learning**
UAEM
- 2017 ● **II Summer school in bioinformatics**
UNAM, Campus Juriquilla
- 2016 ● **Workshop: Sex, Genes and Conduct**
CCG-UNAM
- 2016 ● **XI Update seminar on genetics: Human genetics**
UNAM
- 2016 ● **Clubes de Ciencia: Visualizing the bonds of life**
Mexico
- 2015 ● **Clubes de Ciencia: Unlocking the mysteries within**
Mexico
- 2015 ● **Science workshop for young people**
Mexico