

LUCIA RAMIREZ-NAVARRO

Interested in using bioinformatics to understand the immune system and help in the diagnosis and treatment of related diseases



EDUCATION

2020 –
2021

● **Wellcome Sanger Institute, UK**
MPhil in Biological Science

2016 –
2020

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

Grade: 9.8/10



RESEARCH EXPERIENCE

2020 –
Present

● **MPhil student**
Wellcome Sanger Institute, UK.
Dr Gosia Trynka

• Deciphering the role of sex in CD4+ T cell activation and cell heterogeneity using single cell transcriptomics

2017–
2020

● **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

CONTACT INFO

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🐦 [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 2020-11-11.

- 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
- 2016 ● **Summer intern**
University of Chile, Santiago, Chile
Dr. Jenny Fiedler Temer
 - Training in molecular and genomics techniques



PUBLICATIONS

- Santiago-Algarra, D., Souaid, C., Singh, H., Dao, L., Medina-Rivera, A., **Ramirez-Navarro, L.**, ... & Spicuglia S. Epromoters function as a hub to recruit key transcription factors required to the inflammatory response. *Manuscript submitted.*
- 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