

CAMILO GARCÍA-BOTERO

Biologist - M.Sc. in Biociences

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RESEARCH EXPERIENCE

Young Fellow

MinCiencias - EAFIT

2021- ongoing Medellín, Colombia

- Using third generation sequencing technologies and computational methods, I expect to sequence and later assembly *B. cereus* EA-CB1047 genome.
- By mining *B. cereus* EA-CB1047 genome, I hope to unveil its biosynthetic potential.
- I will study the antimicrobial potential of *B. cereus* EA-CB1047 and other related strains in the prescence of inducible compounds, against banana pathogens (mainly against *R. solanacearum*)
- By implementing analytical and computational techniques, I will study how new compounds could be produced out of antimicrobial induction

International Scholar

Purdue University

Aug 2018 - Dec 2017 West Lafayette, Indiana, USA

- Through the understanding of the ecology, evolution and behavior of Túngara frogs (*Engystomops pustulosus*) I designed an experiment to test different hypotheses related to the sexual preferences of Túngara females that might be modulated by the parasite *Trypanosoma tungara*.
- Supported graduate students in different projects under the supervision of Dr. Ximena Bernal
- Managed the frogs room and keep the best frog's health conditions
- Took care of frogs infected with BD (*Batrachochytrium dendrobatidis*) using a temperature-based treatment
- Obtain different sets of data using ImageJ, Raven pro, and other softwares
- Started to develop my own project related to animal communication with the mosuquito's *Uranotaenia lowii* system

Tutor

Universidad de los Niños Eafit

Jul 2015 - Dec 2015 Medellín, Colombia

- Prepared myself theoretically in a subject through a meeting with a researcher and a series of documents
- Prepared the materials for the workshop according to the age of the group of kids
- Arranged the meeting with the kids in the university inviting them to attend the workshop with a particular question
- led the workshops about research questions stated at the begining and tried to spark some light on kids to achieve their own answers
- Reviewed immediately the workshops of the day with other tutors and get feedback from mentors

AWARDS

Young Fellow - MinCiencias
2021

MSc. Scholarship - Universidad EAFIT
2019

AREAS OF INTEREST

Evolution Bioinformatics Ecology
Epigenetics Phylogenetics
Molecular biology Omic Sciences
Microbiology Bacteriophages

SKILLS & STRENGTHS

Programming HPC
Reading & writing skills
Scientific thinking Data science
Motivator & Leader Team work
Adaptation Innovative
Creative thinking Curiosity

SOFTWARE

Python ●●●●●●●●
R ●●●●●●●●
LaTeX ●●●●●●●●
Bash-Shell ●●●●●●●●
Markdown ●●●●●●●●

LANGUAGES

Spanish ●●●●●●●●
English ●●●●●●●●
German ●●●●●●●●

CERTIFICATIONS

Scientific Communication ●●●●●●●●
Bioinformatics ●●●●●●●●

EDUCATION

MSc. in Biosciences – Universidad Eafit

📅 July 2019 – April 2022

Thesis: *Molecular elements underlying Bacillus tequilensis unrestrained loss of social traits*

B.Sc. in Biology – Universidad Eafit

📅 January 2014 – December 2018

Thesis: *Plukenetia volubilis non-paternal oDNA transmission: a cytological diagnosis of pollen grains and a phylogenetic approach assessing Colombian cultivars cpDNA markers variation*

PUBLICATIONS & SOFTWARE

Villanueva-Corrales, S., García-Botero, C., Garcés-Cardona, F., Ramírez-Ríos, V., Villanueva-Mejía, D. F., Álvarez, J. C. (2021). The Complete Chloroplast Genome of *Plukenetia volubilis* Provides Insights Into the Organelle Inheritance. *Frontiers in plant science*, 12, 662. [ver](#)

García-Botero, Camilo (2021). eafithemer: a simple ggplot2 theme for EAFIT institution (1.0.0).

Zenodo. <https://doi.org/10.5281/zenodo.4526717> [ver](#)

TEACHING EXPERIENCE

Department of Biological Sciences, EAFIT University

📅 Sep 2021 – Jul 2022

📍 Medellin, Colombia

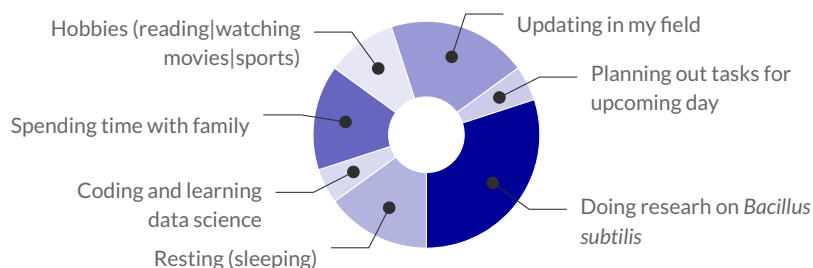
Experimental Biology

Fund. of Computational Biology

MENTORSHIP

Bachelor's thesis *Caracterización genómica de bacteriófagos líticos de Bacillus tequilensis EA-CB0015* Estudiante dirigido Pablo Gómez Estrada en Universidad EAFIT

A DAY OF MY LIFE



REFEREES

Valeska Villegas-Escobar

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Javier C. Álvarez

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✉ Universidad Eafit, Medellín

Ximena Bernal

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✉ Purdue University, West Lafayette