

# Xavier Clemente García Cevallos

Popayán, Cauca

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## CONTACT INFORMATION

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## EDUCATION

**B.S Biology Student** *University of Cauca Expected submission date: 2026*

Aug 2020 - Present

## COURSES & CERTIFICATIONS

**Scientific redaction with LaTeX and integration with R** Majuipal Solveris

February 2025 - February 2025

**Reproducible Research with Quarto** *University of Cauca - Antioquia University, XII Botanic Colombian Congress*

November 2024 - November 2024

**Introduction to formative research: How to do research without dying in the attempt** *University of Cauca. Academic research vicerrectorate. ECoS-CTeI Project - Center for Continuing, Open and Virtual Education*

April 2024 - April 2024

**Pre-Symposium Course. R with R for Biological Sciences** *University of Cauca. XVII Symposium Biological Sciences Research*

November 2023 - November 2023

**Ethnopharmacology and Ethnobotany: Biocultural transitions** *University of Cauca. Education, Naturals and Exact Sciences Faculty. Ethnobiological and Biocultural Studies Department*

June 2023 - June 2023

**Molecular Models Bioinformatics** *São Paulo University - USP*

November 2022 - November 2022

**Botanical Scientific Drawing with an Ethnobiological Approach** *University of Cauca. Education, Natural and Exact Sciences Faculty. Ethnobiological and Biocultural Studies Department*

December 2022 - December 2022

**Handling tools in Microsoft Office Excel 2016** *National Learning Service SENA – Colombia*

September 2021 - September 2021

**Control structures and Variables in Python** *National Learning Service SENA – Colombia*

June 2022 - July 2022

**The Chemistry of the Life** *Kyoto University - KyotoUx*

March 2020 - March 2021

**Preparation of basic materials and equipment for chemical laboratory** *Sena Huila - Agro-Business and livestock development center of Huila*

September 2016 - December 2016

#### CONFERENCES

**I Encontro Científico Brasil - Colombia** *Facultad de Medicina de Ribeirão Preto, Universidad de São Paulo. 378/5.000 1st Brazil-Colombia Scientific Meeting* Ribeirão Preto School of Medicine, University of São Paulo. Department of Genetics. Bioinformatics Group - School of Exact and Educational Natural Sciences, University of Cauca - Microscopy and Imaging Research Group, Toxicology and Cytogenetics Research Group. (Speaker and Assistant)\*

**XIV National Congress XV International Seminar on Neurosciences** *Colombian College of Neurosciences, International Brain Research Organization, Pontifical Javeriana University - Bogotá Campus. (Speaker and Attendee)*

April 2024 - April 2024

**XII Botanic Colombian Congress** *University of Cauca. (Collaborator & Speaker)*

November 2024 - November 2024

**Pacific Regional Convergence for COP-16** *Pacific District Green Zone COP-16. Republic Vicepresidency. Cali - Colombia (Speaker)*

October 2024 - October 2024

**XVII Symposium in Sciences Biological Research** *University of Cauca (Collaborator)*

November 2023 - November 2023

**XI Latin American Congress of Medicinal Plants COLAPLAMED.** *Quindío University (Assistant)*

September 2023 - September 2023

**II Symposium on Cancer Update: from genetics to the clinic** *Bogota, D.C. Military University of New Granada. (Assistant)*

[June 2023 - June 2023]{.cvfloat}

**I Symposium Mother cell and genetic therapy** *Bogota, D.C. Military University of New Granada. (Assistant)*

April 2023 - April 2023

**Symposium to commemorate the discovery of DNA and the Human Genome Project. Competition for the most molecularly accurate DNA molecule** *University of Cauca. Sciences Faculty. Education, Naturals and Exact Sciences Faculty. Colombia. (Assistant)*

April 2023 - April 2023

**International Colloquium: Omics Sciences, advances, big data and impact in personalized medicine and precision** *University of Cauca. Education, Naturals and Exact Sciences Faculty. Colombia (Assistant)*

November 2021 - November 2021

**XVI Research Symposium in Biological Sciences** *University of Cauca. Education, Naturals and Exact Sciences Faculty. Colombia (Assistant)*

November 2021 - November 2021

**COVID 19: An approach form Biology** *University of Cauca. Education, Naturals and Exact Sciences Faculty. Colombia (Assistant)*

December 2020 - December 2020

#### WORKSHOPS TAUGHT

**Workshop:** *Introduction to R and Statistical Testing* - Entomology Laboratory, Museum of Natural History. University of Cauca, Popayán, Cauca, Colombia. Functional Diversity and Ecosystem Services Seedbed (DIVERFUN). **Duration:** 2 hours.

March 5, 2025

**Workshop:** *Artificial Intelligence Tools for R Management and Reproducible Science*. University of Cauca, Popayán, Cauca, Colombia. Research Seedbed in Geology, Ecology, and Conservation - ASIO. **Duration:** 4 hours.

May 16 - June 2, 2025

## WORK EXPERIENCE

**Herbarium Collection Monitor at the Natural History Museum, University of Cauca** *Description:* Support in the management and organization of the botanical material deposited in this institution. Guidance through the public collection of the Museum of Natural History (MHN) of the University of Cauca

October 2024 - June 2025

**Coordinator of the Research Seedbed in Developmental Biology and Neural Plasticity of University of Cauca** *Description:* Extracurricular space, made up of students and teachers, with the guidance of the mentor Dr. Willian Orlando Castillo Ordóñez. The purpose is to promote research culture through training for research focused mainly on undergraduate students, in one or different disciplinary areas, promoting creativity, innovation, commitment, social interaction, teamwork and social appropriation of knowledge about neurobiology. Mentor: Willian Orlando Castillo Ordoñez, PhD

September 2024 - Present

## RESEARCH EXPERIENCE & PROJECTS

**Interurban Biological Corridor Proposal in the Tulcan Sector in Popayan Municipality with Strategy for the conservation of the biodiversity and the territorial planification. (ID: 6114)** *University of Cauca. Education, Naturals and Exact Sciences Faculty. Biology Department. Nonvascular plants (Bryophytes) Taxonomy field. Project Chief: Professor Gisella Mabel Paz Perafán, Ph.D. Description:* Sampling in the areas surrounding the Faculty of Natural, Exact and Educational Sciences of the University of Cauca. Quantification of the number of families, genera and species of Bryophytes. In this way, it is hoped to contribute to the knowledge of non-vascular plants for conservation and territorial planning purposes that may benefit the proposed interurban biological corridor in the Tulcán Sector of the Municipality of Popayán.

January 2024 - December 2024

## PRESENTATIONS

**Poster presentation:** *In silico* evaluation of differential expression of conductal pathways in *Atta cephalotes* (Formicidae) for pesticides exposition. 52 Socolen Congress of Colombian Entomology Associ-

ation - Santa Marta, Magdalena, Colombia

June 25, 2025

**Poster presentation:** Evaluation of neurotoxic, reproductive, and morphological effects of exposure to Glifocafé® in *Drosophila melanogaster*. 13th Research Meeting in Biomedical Sciences, Morphological Skills, and Education - University of Durango, Zacatecas Campus, Mexico

May 26, 2025

**Oral presentation:** *In vivo* and *in silico* evaluation of reproductive and neurotoxicity of *Erythroxylum coca* in *Drosophila melanogaster*. Scientific Meeting Brazil - Colombia.

May 23, 2025

**Poster presentation:** *In silico* evaluation of the therapeutic potential of *Pterocaulon alopecuroides* in Alzheimer's disease National Congress of Neurosciences and XV International Seminar on Neurosciences\*

April 24th - 2025

**Poster presentation:** Evaluation of viability and germination capacity in seeds of *Pterocaulon alopecuroides* XII Botanic Colombian Congress - Popayan, Cauca, Colombia

November 5th - 2024

**Oral presentation:** Biodiversity of bryophytes at the University of Cauca, Popayán XII Botanic Colombian Congress - Popayan, Cauca, Colombia

November 5th - 2024

**Oral presentation:** MHN-Unicauca Staff, at the Cauca Stand and the popular economies stand. Pacific District in the Green Zone COP-16. Cali, Colombia

October 26th - 2024

#### AWARDS & HONORS

**Distinction:** First place in poster category for the work "Evaluation of the neurotoxic, reproductive, and morphological effects of exposure to Glifocafé® in *Drosophila melanogaster*". 13th Meeting on Research in Biomedical Sciences, Morphological Skills, and Education.

June 2, 2025

**Honor:** First Place for outstanding performance in the construction of the DNA Molecule Symposium to commemorate the discovery of DNA and the Human Genome Project. Competition for the most molecularly accurate DNA molecule.

April 25th - 2023

#### SUBMITTED ARTICLES

**Article:** García Cevallos, X. C., Huila Medina, J. F., Muñoz Buitrón, D., & Arcos, L. T., (*Submitted*), Reproductive, neurotoxic, and morphological effects of exposure to Glifocafé® in *Drosophila melanogaster*

**Article:** Polindara Moncayo, Y. W., Garcia Cevallos, X. C., Guevara Trujillo, D. T., (*Under review*), Viability and germination capacity of *Pterocaulon alopecuroides* (Lam) DC seeds, a medicinal plant

#### REFERENCES

Available upon request