Oscar A. Quintero López

BACHELOR IN BIOLOGY - BIOLNEORMATICIAL

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Experience

Francisco José de Caldas District University

Bogotá, D.C.

LABORATORY TECHNICIAN May. 2024 - Present

- · Assisted faculty, students, and the general public according to the needs of the biology laboratories and warehouse.
- Performed equipment preparation, lending, and receiving, ensuring proper functioning and usage of laboratory equipment and materials.
- Trained users in laboratory usage, both in-person and through digital tools.
- · Conducted preventive and corrective maintenance on laboratory equipment.

Francisco José de Caldas District University

Bogotá, D.C.

BIOLOGY DEGREE PROFESSIONAL PRACTICE

Feb. - Nov. 2020

- Developed academic activities as part of Professional Practices III and IV, focusing on the Biology Degree.
- Conducted Professional Practice at Francisco José de Caldas Technical Industrial Institute, contributing to the afternoon session educational process.

Francisco José de Caldas District University

Bogotá, D.C.

WORKSHOP INSTRUCTOR

Jul. - Ago. 2018

- Provided technical support for workshops aimed at strengthening participants' computer skills.
- Enhanced participants' technical skills through specialized guidance and workshops on basic Linux principles.

Education

Francisco José de Caldas District University

Bogotá D.C., Colombia

BACHELOR'S IN BIOLOGY

Feb. 2016 - Dic. 2022

National University of Colombia

Bogotá D.C., Colombia

MASTER'S STUDENT IN BIOINFORMATICS

Ago. 2023 - Presente

Professional Development

American Chemical Society (ACS)

Online

SCIENTIFIC COMMUNICATION AND WRITING COURSE BY ACS PUBLICATIONS LATAM: THREE-SESSION PROGRAM

Nov. - Dic. 2024

4 hours and 30 minutes virtual course on scientific communication and writing, organized by ACS Publications LATAM.

Francisco José de Caldas District University - Research Office

gotá D.C., Colombia

CONSOLIDATION OF CTEL PROJECTS BASED ON SIGP

Sep. 2024

20-hour virtual course on consolidation of Science, Technology, and Innovation (CTel) projects based on the Integrated Project Management System (SIGP).

Francisco José de Caldas District University - Research Office

Bogota D.C., Colombia

STRUCTURING CTEL PROJECTS BASED ON LOGICAL FRAMEWORK

Ago. 2024

· 20-hour virtual course on structuring Science, Technology, and Innovation (CTel) projects using the logical framework approach.

Francisco José de Caldas District University - Research Office

Bogotá D.C., Colombia

STRATEGIC ROUTE CONTEXTUALIZATION AND CONSTRUCTION FOR PROJECT FORMULATION IN SCIENCE, TECHNOLOGY AND INNOVATION (CTEL)

Ago. 2024

• 20-hour virtual course on strategic project formulation in Science, Technology, and Innovation.

National University of Colombia, Bogotá Campus - EMBL-EBI

Bogotá D.C., Colombia

ENSEMBL BROWSER WORKSHOP

Jul. 2024

• Participation in the workshop on using the Ensembl browser for querying genomic data.

Platzi Online PROFESSIONAL COURSE ON GIT AND GITHUB Ago. 2023 • 22-hour course on Git and GitHub theory and practice. **National University of Colombia** Bogotá D.C., Colombia ALGORITHMICS 0.0 May. - Jun. 2023 48-hour course on basic and advanced algorithmics. Online LINUX SERVER ADMINISTRATION: RESOURCE MANAGEMENT Mar. 2023 • 18-hour course on Linux server administration and resource management. Platzi Online INTRODUCTION TO C COURSE Mar. 2023 • 12-hour course on introduction to the C programming language. Platzi Online **FUNCTIONS IN C COURSE** Mar. 2023 • 10-hour course on the use of functions in the C programming language. Platzi Online CONTROL FLOW IN C COURSE Mar. 2023 • 11-hour course on control flow in C programming language. IAEA (International Atomic Energy Agency) and National University of Colombia Bogotá D.C., Colombia NATIONAL TRAINING COURSE ON MUTATION INDUCTION IN POLYPLOID CROPS · 40-hour course on mutation induction in polyploid crops, organized by the IAEA and the National University of Colombia. Platzi Online BASIC PROGRAMMING COURSE Nov. 2021 • 34-hour course on basic programming theory and practice. Online **DEVELOPMENT ENVIRONMENT SETUP IN LINUX** Ago. 2021 • 12-hour course on development environment setup in Linux. Platzi Online INTRODUCTION TO TERMINAL AND COMMAND LINE COURSE May. 2021 • 11-hour course on terminal and command line theory and practice. Platzi Online **ASTROBIOLOGY COURSE** Ene. 2021 • 10-hour course on astrobiology theory and practice. Francisco José de Caldas District University - RITA INTRODUCTORY COURSE ON R WITH RSTUDIO Abr. 2020 • 2-hour introductory course on the use of R and RStudio. University of Los Andes - Max Planck Tandem Group in Computational Biophysics MECHANICAL FORCES IN BIOLOGY: THEORY AND SIMULATIONS Sep. - Oct. 2019 • Participation in the workshop on mechanical forces in biology, theory, and simulations. Francisco José de Caldas District University - RITA Bogotá D.C., Colombia INTRODUCTION TO NETWORK MONITORING Mar. 2018 · 2-hour course on network monitoring. Francisco José de Caldas District University Bogotá D.C., Colombia Workshop on Introduction to Python for Bioinformatics Nov. 2016 • Participation as an assistant in the introductory workshop on Python for bioinformatics.

Skills

Bioinformatics RNA-Seq and GBS analysis, bioinformatics pipelines development, omics data handling

Programming Python, Bash, R, C, SQL

Systems and Platforms Linux (Server Administration), Docker, Nextflow

Collaboration and Version Control Git, GitHub

Data Analysis and Development CMake, Statistical analysis with R and Python, Visualization with ggplot2 and Matplotlib

Computational Biology Tools Cobra Toolbox, KEGG API, SBML, BlobToolKit

Languages

Spanish Native

English Intermediate level

Presentations

COBALT-60 IRRADIATION

II International Symposium on Radioactive and Nuclear Applications

Bogotá D.C, Colombia

SPEAKER: FUNCTIONAL GENOMICS FOR THE IDENTIFICATION OF MUTANT POTATO AND RICE VARIETIES OBTAINED BY

7 - 10 de Nov. de 2023

 Highlighting the use of functional genomics techniques for discovering mutant varieties of essential crops such as potatoes and rice through exposure to Cobalt-60 radiation.

Extracurricular Activities

GiBBS (Bioinformatics and Systems Biology Research Group)

Bogotá D.C., Colombia

RESEARCHER IN TRAINING

Nov. 2023 - Present

- Developed a genome-scale model for potatoes, applying advanced bioinformatics and computational systems biology techniques.
- · Used Linux-based tools for genomic data analysis, demonstrating proficiency in Linux systems and bioinformatics.
- · Contributed to writing research proposals and scientific publications related to genomics and bioinformatics.

Specialization in Public and Private Lighting

Bogotá D.C., Colombia

STUDENT ASSISTANT

Jun. 2023 - Dic. 2023

- Assisted in developing practical laboratories and provided logistical support for coordinating academic activities in the specialization.
- Worked closely with faculty in planning and executing educational activities and workshops on public and private lighting.
- · Contributed to the administrative operation of the specialization, ensuring smooth communication between students, faculty, and the administrative department.

BIOMOLC (Molecular Biology and Agrigenomics Research Group)

Bogotá D.C., Colombia

RESEARCHER IN TRAINING

Ago. 2021 - Present

- Developed pipelines for RNA-Seq data analysis using Linux-based software, demonstrating proficiency in Linux and bioinformatics.
- Assisted in conducting workshops on basic Linux and data analysis, contributing to knowledge dissemination within the research group.

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