

JOSELYN KATHERINE VIZUETE OROZCO

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EDUCATION

Bachelor's Degree in Biology

2021 - 2024 | School of Biological Sciences and Engineering, Yachay Tech University, Ecuador

- **Relevant Coursework:** Molecular and Cellular Biology, Biochemistry, Genetics, Botany, Zoology, Ecology and Evolution, Developmental Biology, Biostatistics, Comparative Physiology.

International Baccalaureate Diploma Programme

2015 - 2017 | Riobamba, Ecuador

RESEARCH EXPERIENCE

Research Assistant - "Antiproliferative and Anticancer Activity of Plant Extracts with High Nutraceutical Value"

December 2024 - Present | Yachay Tech University.

- Conducted experiments to evaluate the anticancer potential of plant extracts, contributing to the development of natural therapies for cancer treatment.

Thesis Research - Laboratorios Novandina - CISEAL

March 2024 - June 2024 | Quito, Ecuador.

- **Thesis:** Antiproliferative and antioxidant Activity of Plant Extracts used in Ayahuasca beverage in Glioblastoma and medulloblastoma cells.
- Design and execution of in vitro experiments to evaluate the therapeutic potential of Amazonian plants in brain cancer.

Research Assistant - "Antiproliferative and Anticancer Activity of Plant Extracts with High Nutraceutical Value"

March 2023 - May 2023 | Yachay Tech University.

- Collaboration in the execution of experiments and analysis of results.

Research Assistant - Ecology of Mammals and Birds in Antisana Water Conservation Area

August 2022 - October 2022 | Yachay Tech University, ACHA.

- Collaboration in ecological data collection and optimisation of data analysis.
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TEACHING EXPERIENCE

Teaching Tutor - Yachay High school UEMY

October 2021 - February 2022 | Urcuquí, Ecuador

- Provide tutoring and academic support to high school students.
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LEADERSHIP & VOLUNTEERING

Aspire Leaders Program

March 19 - April 20, 2025 | Aspire Institute (Virtual).

Accepted into Cohort 2 of the Aspire Leaders Program, a leadership development initiative founded by Harvard Business School professors.

Collaborative Member - Association of Biology and Biomedical Engineering Students (ASOBIB-YT)

2022 - 2023 | Yachay Tech University

- Department of Academic Affairs.

Volunteer - Yachay Botanical Garden

2022 - 2023 | Urcuquí, Ecuador

- Guided tours, garden maintenance, and educational outreach.

Collaborative Member - Women in Engineering (WIE-YT)

2022 - 2023 | Yachay Tech University

- Social projects Department.

Organizing Committee Member - Life Science 2022 Congress

2022 | School of Biological Sciences & Engineering, Yachay Tech University.

- Coordinate and manage the event, bringing together researchers and students.
- Assist in the organization and logistics of the congress.

Conference Secretariat Member - 24-Hour Conference on Global Organized Crime

December 1-2, 2021 | Online | ECPR-SGOC, CIROC, IASOC, GI-TOC

- Assisting in conference organization, logistics, and communication.

ACADEMIC PRESENTATIONS & CONFERENCES

Speaker - SISTEM 8M International STEM Symposium for Women

March 10-14, 2025 | InspirherTech, Universidad Nacional Mayor de San Marcos (Virtual, Perú)

- **Title:** "From Boots to Lab Coats: The Power of Biology Without Limits," inspiring young women to pursue careers in STEM.

Poster Presentation - XLVII Jornadas Nacionales de Biología

November 25-26, 2023 | Universidad Técnica de Manabí, Portoviejo, Ecuador

- **Title:** Ecology of *Odocoileus virginianus* in the Antisana Water Conservation Area: An integrated approach to habitat and water resource conservation.

EXTRACURRICULAR ACTIVITIES

Participant - Fifth Visual Census of White-Tailed Deer

February 14 - 17, 2025 | Pichincha & Napo, Ecuador.

Collaborated in the visual census of *Odocoileus virginianus* to estimate population size.

Participant - Third Visual Census of White-Tailed Deer

January 13 - 16, 2023 | Pichincha & Napo, Ecuador.

Collaborated in the visual census of *Odocoileus virginianus*.

Participant - Second Visual Census of White-Tailed Deer

December 10 - 13, 2021 | Pichincha & Napo, Ecuador.

Collaborated in the visual census of *Odocoileus virginianus*.

COURSES & CERTIFICATIONS

Advanced Neurobiology I

January 2025 - Present | Peking University (Coursera)

Bioethics and Professional Responsibility

December 2024 | CEDIA and inEC (Virtual) | 30 hours

High Andean Flora

September 2024 | Indoamérica University and Missouri Botanical Garden | 40 hours

DNA and RNA Sequencing Techniques

January 31 - February 2024 | Online | 20 hours

Bird Handling and Study

March 2023 | Yachay Botanical Garden, Urcuquí, Ecuador.

V Ecuadorian Mammalogy Congress; III National Wildlife Management Congress; I Ecuadorian Rescue Centers, Zoos, Aquariums, and Related Institutions Congress

October 2022 | Universidad Espíritu Santo (UEES), Samborondón, Guayas, Ecuador.

Fungi in the Yachay Botanical Garden: Diversity and Ecological Roles

May 2022 | Yachay Botanical Garden, Urcuquí, Ecuador.

Are Non-Native Species a Threat to the Inter-Andean Vegetation of Imbabura?

May 2022 | Yachay Botanical Garden, Urcuquí, Ecuador.

TECHNICAL SKILLS

Microsoft Office, R Statistical Software, Python, Graph Pad Prism, Statistics, bioinformatic programs.