



Mayra Fernanda Ocampo Valdivia

PROFILE

Graduated in Bioengineering, with a Master's degree in Higher Education and a specialization in Microbiology. In addition, I have completed courses in Biotechnology, Molecular Biology, Bioinformatics, among others, providing me with a strong academic background and practical experience in various projects involving microorganisms in different contexts.

Currently, I work as a faculty member in the fields of Biotechnology and Synthetic Biology at both undergraduate and postgraduate levels. I also have advanced studies in English and skills in the integrated management of statistical programs and software, as well as in the use of digital tools for education.

As a coordinator and mentor of the iGEM Bolivia team and an active participant in the Conecta Mentora and Mujeres TICs teams, I have demonstrated a strong commitment to the promotion and advancement of science and technology.

I consider it essential to continue improving the quality of learning and teaching in the fields of Bioengineering and Biotechnology, which is why I continue to specialize and update my knowledge in

ACADEMIC TRAINING

Bachelor of Bioengineering

Simón I. Patiño University, Bolivia | 2012 – 2017

Training course "Educational and business technologies based on Cloud Computing"

INNOVA Training & Enterprise Google, Bolivia | 2014

Course "Environmental Biotechnology and its application to mining"

Bolivian Catholic University, Bolivia | 2016

Theoretical-practical course "Identification of Enterobacteriaceae and related genera in foods"

San Simón University, Bolivia | 2016

Course "Food Biotechnology"

Pairumani Phytoecogenetic Research Center and San Simón University, Bolivia | 2016

Diploma and Master degree in Higher Education

Autonomus University of Beni José Ballivián, Bolivia | 2017-2020

CONTACT

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👤 Mayra Fernanda Ocampo Valdivia

LANGUAGES

Spanish 

English 

SKILLS

- Leadership
- Perseverance
- Analytical capacity
- Critical thinking
- Collaborative work
- Advanced organization
- Autonomy in projects
- Mastery of virtual platforms

SOFTWARE

- Pack Office
- R Studio
- SAS
- PSe Int
- C# y C++

English courses

San Simón University, Bolivia | 2018 - 2019

Diploma and specialization in Applied Microbiology

San Simón University, Bolivia | 2020

“I am a Beginner” Workshop - Basic Level of the Digital Educator Program on digital tools for education

The Google Bolivia Educators Community, Global Tech Educator of the Network of teachers of Latin America and the Caribbean, Ministry of Education of Bolivia, Latin America | 2020

Workshop “Applying in the classroom” - Intermediate Level of the Digital Educator Program on digital tools for education

The Google Bolivia Educators Community, Global Tech Educator of the Network of teachers of Latin America and the Caribbean, Ministry of Education of Bolivia, Latin America | 2020

Workshop “I am an Educator” - Advanced Level of the Digital Educator Program on digital tools for education

The Google Bolivia Educators Community, Global Tech Educator of the Network of teachers of Latin America and the Caribbean, Ministry of Education of Bolivia, Latin America | 2020

Curso “Introduction to Bioinformatics: Concepts and applications in Microbial Genetics”

Añaki & iGem Bolivia, Bolivia | 2020

Course “Reading, writing and presenting scientific articles”

San Andres University (Faculty of Pharmaceutical Sciences and Biochemistry), Society Student Scientist & iGem Bolivia, Bolivia | 2020

Course “Yeast Biotechnology”

San Andres University (Faculty of Pharmaceutical Sciences and Biochemistry), Society Student Scientist, iGem Bolivia and Women Brewers, Bolivia | 2020

Course “Molecular Biology”

OpenLab, México | 2020

Course “Introduction to Applied Biotechnology for Viruses”

Añaki & iGem Bolivia, Bolivia | 2021

Digital Educator Challenge Program on digital tools for education

The Google Bolivia Educators Community, Global Tech Educator of the Network of teachers of Latin America, Google Cloud Partner, ABGP, Latin America | 2022

Course “Health Research Methodology”

UNITEPC, UNICEN, College of Physicians, Scientific Journal of Medical Science, and others, Bolivia | 2023

Course “Innovative Teaching of Science, Technology, Engineering and Mathematics”

University of Colorado Boulder, PhET Interactive Simulations, EPIX World | 2023

Course “Generative Artificial Intelligence Applied to Education”

UNIR, Logroño | 2025

PROFESSIONAL EXPERIENCE

Mathematics, Physics and Chemistry Teacher

Elite – Leading Company in Study Techniques, Bolivia | 2019 – 2020

Pre-university level Mathematics teacher

Elite – Leading Company in Study Techniques, Bolivia | 2020

Scriptwriter and Academic Assistant in the subject of Biology in the “STEAM League”

iGEM Bolivia, Ministry of Education of Bolivia and allied associations, Bolivia | June to Octubre 2020

Co-organizer of the theoretical-practical course “Introduction to Bioinformatics”

iGEM Bolivia and Añaki, Bolivia | August to September 2020

Organizer of the course “Yeast Biotechnology”

San Andres University (Faculty of Pharmaceutical Sciences and Biochemistry), Society Student Scientist, iGem Bolivia and Women Brewers, Bolivia | November 2020

General Chemistry Teacher

ENACOM- Teach, Learn and Share, Bolivia | May 2020 to January 2022

Biology teacher

ENACOM – Teach, Learn and Share, Bolivia | May 2020 to January 2022

Teacher of Exact Sciences (Mathematics, Physics and Chemistry)

ENACOM – Teach, Learn and Share, Bolivia | September to December 2021

Professor of Cell Biology

ENACOM – Teach, Learn and Share, Bolivia | July 2021 to January 2022

Professor of Diploma in Biotechnology and Applied Bioinformatics (virtual)

Modules: Introduction to Biotechnology / Microbial and Plant Biotechnology

Soft Academy - Nelson Mandela University and Executive Education S.A., México | December 2021 to March 2022

Biology and Geography Diploma Teacher (virtual)

Module: Playful Learning

FATAP University, Brazil | April 2022

Organizer and teacher of the “Microbiology for all”

iGEM Bolivia and 10Minds, Bolivia | October 2022

Organizer and teacher of the “Biological circuit design”

iGEM Bolivia and 10Minds, Bolivia | November 2022

Organizer and teacher of the course “Scientific communication and social media

iGEM Bolivia and 10Minds, Bolivia | December 2022

Academic Project Advisor

Politia Consulting, Antioquia-Colombia | May 2022 to date.

Professor of “Biostatistics and Demography”

Cosmos Private Technical University (UNITEPC), Bolivia | February to December 2023

Professor of “Industrial Microbiology”

Cosmos Private Technical University (UNITEPC), Bolivia | June to January 2023

Professor of “Bacteriology”

Cosmos Private Technical University (UNITEPC), Bolivia | August to December 2023

Scientific advisor of the Faculty of Biochemistry and Pharmacy

Cosmos Private Technical University (UNITEPC), Bolivia | August to December 2023

Coordinator of the “Bioengineering in Natural Resources”

Private University of Bolivia (UPB), Bolivia | December 2023 to present.

Professor of “Biology”

Private University of Bolivia (UPB), Bolivia | March 2024 to present.

Professor of “Introduction to Bioengineering”

Private University of Bolivia (UPB), Bolivia | March 2024 to present.

RESEARCH PAPERS: PUBLICATIONS

- Ocampo M. (2020). LITHIC PLATES IN COCHABAMBA WATERS. San Simon University. Cochabamba, Bolivia.
- Ocampo M. (2021). TEACHING LEARNING METHODOLOGY OF PLANT BIOINDICATION IN THE EVALUATION OF NATIVE PLANT SPECIES, FOR BIOENGINEERING STUDENTS. Autonomous University of Beni Jose Ballivian. Bolivia.
- Paulas, L., Villca, D., Montaña-Sanchez, P., Ocampo, M., Cruz, J., Alfaro, P. & T. Pozzo. (2020). “HIDDEN” MICRO HEROES THRIVING AT THE EXTREMES OF LIFE: EXTREMOPHILES FROM THE BOLIVIAN ALTIPLANO AND THEIR USEFULNESS IN THE BIOREMEDIATION OF CONTAMINATED ENVIRONMENTS. Cochabamba, Bolivia.
- Gonzales Mamani, Virginia; Ocampo Valdivia, Mayra Fernanda; Villca Centellas, Danna; Zubieta Rojas, Jimena; Tambo Santos, Andrea Aracely; Contreras Huanca, Mónica Michelle; Pozzo Mendoza, Tania. (2021). ARSENIC POLLUTION, A PROBLEM ADDRESSED BY iGEM BOLIVIA. La Paz, Bolivia.

PARTICIPATION AND PRESENTATIONS

Poster presentation at the “2nd International Congress on Biotechnology: Bolivia” INNOVATE”

Title: “Hidden” Micro Heroes, Thriving at the Extremes of Life: Extremophiles of the Bolivian Altiplano and its usefulness in the Bioremediation of contaminated environments.

Bolivian Catholic University, Bolivia | August 2020

Presentation at the “Education is a Universal Right” Program

Title: “Measures applied in education during the pandemic”

Junior Chamber International Organization – JCI Unión | August 6, 2020

Book launch of “The Germ Code”. Live presentation on social media

Title: “The Germ Code”

Book Movement Organization | November 24, 2020

Interview on the “CONCIENCIA Podcast”

Title: “Role of bioengineering in the international iGEM competition”

iGEM Bolivia | January 16, 2021

Poster presentation at the “3rd International Congress on Biotechnology: Bolivia” INNOVATE”

Title: Arsenic contamination, a problem addressed by iGEM Bolivia

Bolivian Catholic University, Bolivia | June 2021

Workshop on “STEAM WEEKS”

Title: “Microbiology in our daily lives”

Little Women Organization, Bolivian Catholic University, iGEM Bolivia, Scientific Society Mechatronics Engineering student at UCB La Paz, OWSD Bolivia, GeoLatinas La Paz and Omniscience | July 27, 2021

Webinar organized by the Biochemistry and Pharmacy program at UNITEPC

Title: “Microorganisms: friends or enemies?”

Cosmos Private Technical University (UNITEPC), Bolivia | September 28, 2023

EXTRA AWARDS AND CERTIFICATIONS

Title: Design of an automatic biosensor capable of detecting arsenic in contaminated wáter

Institution: iGEM Bolivia

Area: Synthetic Biology

Modality: International IGEM Competition (International Engineered Machine)

Competition: 2021

Awards: Gold Medal

Better Inclusivity

Integrated Human Best Practices

Awarded by: International Organization IGEM.

France- París | November 14, 2021

Title: Scientific Dissemination Fair in honor of the International Day of Women and Girls in Science

Institution: iGEM Bolivia

Area: STEAM

Modality: Presentation at a Fair

Awards: Recognition as an outstanding leader

Awarded by: Autonomous Municipal Government of Cochabamba, and SLIM.

Cochabamba - Bolivia | February 11, 2023

Title: Outstanding Teacher

Institution: Cosmos Private Technical University (UNITEPC)

Area: Education

Modality: In person

Awards: Recognition as an outstanding teacher in the Biochemistry career and Pharmacy.

Awarded by: Cosmos Private Technical University (UNITEPC).

Cochabamba - Bolivia | June 6, 2023

Title: 1st Symposium and Science Fair in commemoration of the International Day of Women and Girls in Science

Institution: iGEM Bolivia - UPB

Area: STEAM

Modality: Presentation at a Fair

Awards: Recognition as an outstanding leader.

Awarded by: Autonomous Municipal Government of Cochabamba, and SLIM.

Cochabamba - Bolivia | February 15, 2024

CONGRESSES – SYMPOSIA - WEBINARS

Symposium “Plant Biotechnology as a response to agronomic needs and climate change”

Martin Cardenas Scientific Research Unit, Bolivia | May 2016

International Symposium “Legumes Feeding the World”

Association of the Pairumani Phytoecogenetic Research Center, Valles Foundation, Proinpa Foundation, INIAF, Ministry of Rural Development and Land and San Simon University, Bolivia | September 2016

“Green Week” lecture series

Musujchay Research Center and JCI Unión, Bolivia | April 17-22, 2020

“Building the future” lecture series

Musujchay Research Center, Bolivia | April 23-28, 2020

Conference “Scientific Diffusion: Software and Research Perspectives”

Antonio Brack Institute of Sciences, Perú | June 4, 2020

Virtual Forum “Biodiversity and Sustainable Development in the Marañon Dry Forests”

Andes-North Amazon Program Nature and International Culture, Perú | June 16, 2020

Webinar “Metabolic engineering for the production of isoprenoids”

Journal Club -Biotechnology | July 3, 2020

Webinar “Mitochondria as a therapeutic agent”

Journal Club - Biotechnology | July 6, 2020

Webinar “Generalities of patents in Biotechnology”

Journal Club - Biotechnology | July 17, 2020

Webinar “Challenges of Science and Technology in the Face of the New Reality”

Shaper Talks (organized by Global Shapers Hub Santa Cruz, the group of young volunteers of the World Economic Forum Santa Cruz branch with the support of Santa Cruz Innova the Agency of Innovation from CAINCO and the Santa Cruz Recycling Foundation (FUNDARE)
| July 17, 2020

International Meeting “Virtual Educa Connect”

Virtual Educa Connect (Organization formed with the support of the Portuguese Republic, Government of Spain, Republic of Panama, Government of Puerto Rico), Lisbon-Brazil Brasil | July 2020

Webinar “Biomaterials to the rescue of Amazonian rivers”

Journal Club - Biotechnology | July 24, 2020

Talk “Starting a circular biobusiness”

Science at the bar | July 28, 2020

Webinar “Somatic embryogenesis: A strategy to guarantee the production of fine and aromatic cocoa”

Journal Club - Biotechnology | July 31, 2020

Webinar “Gene regulatory networks in *Drosophila melanogaster*”

Journal Club - Biotechnology | August 7, 2020

Webinar “Discover the world of Google Earth”

Amazonian University of Pando (Science and Technology Area) | August 7, 2020

Webinar “Tissue engineering: Generalities”

Journal Club - Biotechnology | August 14, 2020

Webinar “Advances and challenges in competitive educational robotics in Bolivia”

Amazonian University of Pando (Science and Technology Area) | August 19, 2020

Webinar “Antifungal activity of phenolic compounds from tara (against *Caesalpinia spinosa*) *Fusarium graminearum*”

Journal Club - Biotechnology | August 21, 2020

Webinar “Use of molecular tools for the analysis of starch synthase IV *Arabidopsis thaliana*”

Journal Club - Biotechnology | August 27, 2020

2nd International Congress on Biotechnology: “BOLIVIA INNOVA”

Bolivian Catholic University, Bolivia | August 21-30, 2020

Webinar “Introduction to Biotechnology”

EPIX World | September 11, 2020

International Symposium on “CRISPR and Gene Editing”

The CRISPR Journal, Milipore Sigma and Genetic Engineering & Biotechnology News | September 23, 2020

Workshop “Introduction to in vitro culture and germplasm banks”

Sachalab | September 24, 2020

Webinar “Synthetic Biology”

EPIX World | September 25, 2020

1st Symposium on “Biotechnology and its applications from a multidisciplinary approach”

Scientific Society of students of Chemical, Environmental, Food and Petrochemical Engineering, together with the Faculty of Engineering of the San Andrés University | April 5-10, 2021

International Conference on Bioentrepreneurship BioLaunch 2021

BioLaunch, EEUU | November 16-18, 2021

Workshop on “Affected Digital Educational Tools”

Technologi Teach Project | December 4-5, 2021

International Symposium “Blended Learning: Present and Future in Education” Superior”

ALSIE Consultants and José Ballivián Autonomous University, Bolivia | March 30-31, 2022

Webinar on “Applied Microbiology in Agriculture”

SMEAP, México | April 26, 2022

1st Bolivian Symposium on “Molecular Biology – SBBM 2022”

Bolivian Society of Molecular Biology, Bolivia | April 27 to May 1, 2022

REFERENCIAS

PhD. Tania Pozzo Mendoza - PhD in Biotechnology

Founder - IGEM Bolivia | Telf. +1 (530) 902-9872

M. Sc. Cecilia González Paredes - Master in Biology and Society

Co-founder - IGEM Bolivia | Telf. +591 76596082

PhD. Aracely Santos - Doctor in Higher Education

Teacher in the master's degree completed | Telf. +591 72741380

Dra. Shirley Gutiérrez - Graduate in Medicine

Director of the Biochemistry and Pharmacy program at UNITEPC | Telf. +591 65374566